



US Army Corps  
of Engineers  
Rock Island District

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

# Archives Search Report

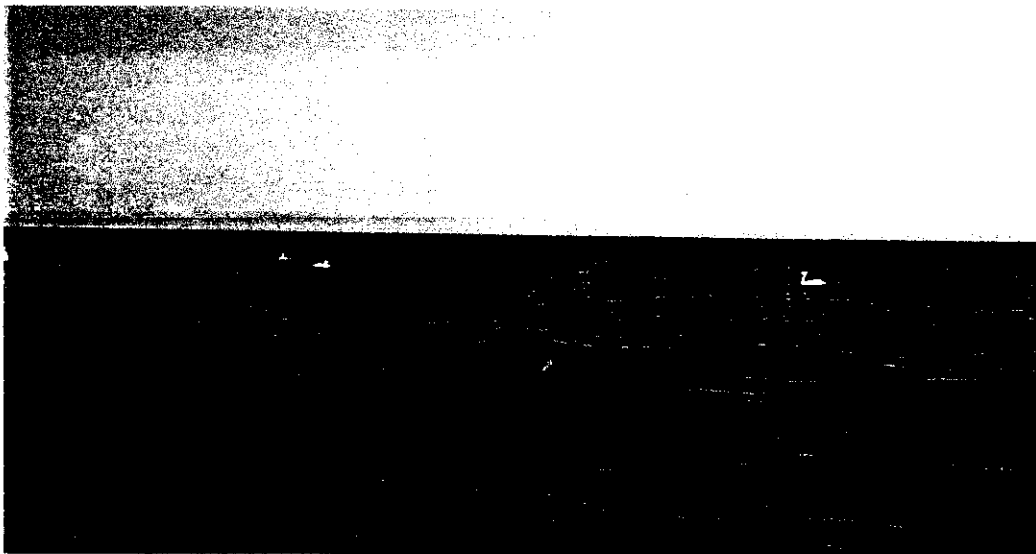
Findings  
for

## SALTON SEA BOMB TARGET

### (FBT 16) (#57)

IMPERIAL COUNTY, CALIFORNIA  
PROJECT NUMBER J09CA018701

MARCH 2002



DEFENSE ENVIRONMENTAL RESTORATION PROGRAM  
for  
FORMERLY USED DEFENSE SITES

**FINDINGS**

ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT

FOR

SALTON SEA BOMB TARGET (FBT 16) (#57)  
IMPERIAL COUNTY, CALIFORNIA  
PROJECT NUMBER J09CA018701

MARCH 2002

Prepared For

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ORDNANCE AND EXPLOSIVES  
 ARCHIVES SEARCH REPORT  
 FOR  
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 IMPERIAL COUNTY, CALIFORNIA  
 PROJECT NUMBER J09CA018701

<b>ACKNOWLEDGMENT</b>				
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**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 the presence of ordnance and explosives (OE) located at Salton Sea Bomb Target (Floating Bomb Target [FBT] 16) (#57), Imperial County, 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) The investigation focused on 640 acres, eighty percent of which was located in the Salton Sea and the remaining which was located along the shoreline (see document E-1). This site was formerly used as a military training site in support of the Eleventh Naval District, San Diego, California during World War II.

(3) The purpose of this investigation was to characterize the site for potential OE presence, to include conventional ammunition and chemical warfare materiel (CWM). The investigation was conducted by experienced ordnance experts through thorough evaluation of historical records, interviews, and 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 information to assess current day potential ordnance presence, where actual ordnance presence has not been confirmed.

(2) For the purpose of this report, OE presence consists of live ammunition, 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 or the Department of Defense. Such ammunition/components are no longer under accountable record control of any DOD organization or activity.

(3) Expended small arms ammunition (caliber .50 or smaller) is not considered OE presence. OE further includes "explosive soil" which refers to any mixture in soil, sands, clays, 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. **1994 Preliminary Assessment of Eligibility**

(1) A Preliminary Assessment of Eligibility (PAE) for Salton Sea Bomb Target (FBT 16) (#57) was conducted under DERP-FUDS by the U.S. Army Corps of Engineers, Los Angeles District. The Finding and Determination of Eligibility (FDE), dated 12 September 1994, concluded that the site known as Salton Sea Bomb Target (FBT 16) (#57) had been formerly used by the Department of Defense (see document E-1 and Table 2-1).

(2) The PAE concluded that there were eligible categories under the DERP-FUDS program. Due to the fact that the site was used by the Navy and identified as a military training site, an OE project was recommended, DERP-FUDS Project Number J09CA018701, the principal subject of this report. The PAE indicated that the site consisted of 640 acres, which comprised the Salton Sea Bomb Target (FBT 16) (#57), Imperial County, California.

TABLE 2-1 PRELIMINARY ASSESSMENT OF ELIGIBILITY				
Project Number	DERP Category	Present Phase	Comments	Location
J09CA018701	OE	SI	Ordnance and Explosives Presence	Entire Site 640 Acres (see Plate 1)
	HTRW	N/A	None Recommended	N/A
	BD/DR	N/A	None Recommended	N/A



b. **Other Investigations**

No other pertinent investigations or inspections were discovered during the ASR process.

3. SITE DESCRIPTION

a. **Existing Land Usage**

(1) The former bomb target, which was acquired for high altitude and dive-bombing target practice during World War II, is located on the shore and in the Salton Sea. The northeastern corner of the subject site is located on the shoreline and within the bounds of the Salton Sea State Park. The remaining acreage is within the confines of the Salton Sea. During the past fifty years the Salton Sea, with no outlet, has continually been on the rise primarily from agriculture irrigation runoff. Some of the original site land mass may today be totally underwater.

(2) The 640 acres that comprise the former bomb target are owned by the Imperial Irrigation District. Today, this same land is being used as a recreation area by the State of California (see document G-1, Plate 3 and Table 3-1).

TABLE 3-1 CURRENT LAND OWNERS/USAGE					
AREA	FORMER USAGE	CURRENT OWNER	CURRENT USAGE	ACREAGE	COMMENTS
A	Bomb Target	Imperial Irrigation District (IID)	Recreation	640	See Plates 2, 3, and 4
Total Acreage				640	

b. **Climatic Data**

(1) Located in the California Imperial Valley, the climate is arid, with hot summers and mild winters. Summer temperatures have been recorded during the months of June and July as high as 119 degrees Fahrenheit. The average summer temperature, however, is 92 degrees Fahrenheit. The record winter temperature recorded in 1937 was 16 degrees Fahrenheit. The average winter temperature, however, is 54 degrees Fahrenheit and the annual average temperature is a pleasant 73 degrees.

(2) The total annual precipitation is about 2.8 inches. June is the driest month and September usually is the wettest. The only snowfall ever recorded was in the southeast Imperial Valley, and that was in 1932.

(3) The average annual relative humidity is about 29 percent. The average monthly relative humidity for August is about 40 percent and 24 percent for March and April. The average sunshine is more than 8 hours a day even in the winter. Evapotranspiration from growing crops can easily exceed 6 feet of water per year in this area (reference B-4).

#### c. **Topography**

(1) Physiography of the site is that of a great basin. It is part of the northern extension of the giant geologic trough occupied by the Gulf of California. The Santa Anna and Fish Creek Mountains bound the basin on the western side and the Chocolate and Orocopia Mountains range bound the basin on the eastern side. The basin is the bed of the prehistoric Lake Cahuilla. The deepest portion of Lake Cahuilla is now filled by the Salton Sea and is about 270 feet below sea level. The shoreline of the Salton Sea is currently about 227 feet below sea level. The Salton Sea is approximately 35 miles long and 15 miles wide, with a maximum depth of 48 feet and an average depth of 22 feet (reference B-5).

(2) Only 20 percent of the subject site is on land. The portion above water is flat and slopes slightly from the eastern boundary, which is State Highway 111, towards the waters edge.

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

(1) Soils are composed of two basic types. They are the moderately drained Imperial soil group and the poorly drained Fluvaquents soils.

(2) The Imperial group is nearly level, moderately well drained silty clay in the Lacustrine basin. Slopes amount to approximately 2 percent and the soil group is approximately 230 feet below sea level. The soils have a pinkish gray silty clay surface layer. Below the thin surface layer is a pinkish gray and light brown silty clay.

(3) Like the Imperial group, the Fluvaquents group is nearly level, however, poorly drained. These are saline soils formed in alluvium. These soils are frequent along the shoreline of the Salton Sea. The Fluvaquents are stratified layers of silty clay and fine sand (reference B-5).

e. **Hydrology**

The water table for the above mentioned soil group is about 3 feet below the surface most of the year. This soil group serves well as wetland wildlife habitat. Approximately 20 percent of the subject site is on land. The portion above water is very flat with a slight slope towards the waters edge. There are no creeks, streams or bodies of water.

f. **Natural Resources**

Information in Table 3-2 was compiled from the U.S. Department of the Interior, Fish and Wildlife Service. Several species have been identified on or near the former bomb target site. Prior to any intrusive remedial activities, telephone (916) 653-7644 or write the State of California, Department of Fish and Game, for the most current information. A complete listing of species indigenous to the area can be seen in Appendix E (see document E-2).

g. **Historical/Cultural Resources**

The California State Historic Preservation Office, upon its review of the site data, stated that there are no known historical or cultural resources on the subject site. However, due to the history of the site, investigations may likely uncover historical artifacts. Prior to any intrusive remedial activities, telephone (760) 358-7016 or write to the California State Historic Preservation Office for current information (reference B-7). Table 3-2 summarizes the natural and cultural resource information obtained from the Department of the Interior, Fish and Wildlife Service located in Carlsbad, California (reference B-6).

TABLE 3-2 NATURAL AND CULTURAL RESOURCES		
RESOURCE CLASSIFICATION	TYPE	COMMENT
Birds	American peregrine falcon	Endangered
	Peregrine falcon	Endangered
	Artic peregrine falcon	Threatened
	Aleutian Canada goose	Threatened
	Yuma clapper rail	Threatened
	Brown Pelican	Endangered
	Bald Eagle	Endangered
	California least tern	Endangered
Historical		None Identified
Archeological		None Identified

#### 4. HISTORICAL ORDNANCE PRESENCE

##### a. **Chronological Site Summary**

(1) In October of 1942, the U.S. Navy initiated steps to practice high altitude and dive-bombing techniques in and around the Salton Sea. The Commandant Fleet Air, West Coast forwarded a request to the Commandant of the Eleventh Naval District for an aircraft operating area in the vicinity of the Salton Sea. The result was an operating area that totally encompassed the Salton Sea (see document F-1).

(2) By December of 1942, the Commandant of the Eleventh Naval District, San Diego, California directed that 5 floating type horizontal bombing targets, which had been previously built in June of 1940, be installed at designated areas in the Salton Sea. The property site selected for the former bomb target was Section 15. This site was acquired under Revocable Permit from the Imperial Irrigation District on 20 April 1943. A vicinity sketch map showing the proposed bombing target locations can be seen at Appendix L. It should be noted that the subject target was originally named Floating Bomb Target 16 (FBT 16), without the (#57) designation (see documents F-2, F-3, F-7 and L-1).

(3) As mission requirements for high altitude and dive-bombing increased, so did the need for additional bombing targets by the Navy. The present method of naming and numbering the targets proved too confusing with the new increase in the number of targets, so the Navy in 1945 adopted a new method for identifying them. All land and water targets were assigned a series or range of numbers with the series or range indicating the location or type of target. FBT 16 was considered to be a target in the desert area with numbers for this area ranging from 50 to 90. It was at this time that FBT 16 was renamed FBT 57 (see document F-5).

(4) The Commander of the Naval Air Base, Eleventh Naval District in 1946 recommended that use of the Salton Sea water bombing targets be discontinued due to fleet requirements. A document, dated that same year from the Chief of Naval Operations listed all naval air targets, gunnery and bombing areas in use by the navy for aviation training. FBT 16 is not on the list, which would imply that the target site was closed by this time. It was further recommended that action be taken to terminate all leases, rescind all danger areas, and restore target areas to their former status (see documents F-6 and F-7).

(5) In February of 1946, the Public Works Officer for the Eleventh Naval District released Section 15 back to the custody of the Imperial Irrigation District, Imperial County, California. No target restoration was required (see document F-8).

**b. Ordnance Related Records Review**

(1) Research efforts began with a thorough review of all reports, articles, historical documents and reference materials gathered during the archival records search. During the review, an effort was made to focus on areas of potential OE presence as described in the Inventory Project Report (INPR) as well as any additional areas which may have been identified during research concerning this former bombing target (reference B-1).

(2) Sources that were checked in the search for any evidence of OE presence at this former bombing target included:

- (a) National Archives
- (b) Regional Archives
- (c) Military History Institute
- (d) U.S. Army Center for Military History
- (e) Naval Historical Center
- (f) Marine Corps Historical Center
- (g) Explosive Ordnance Disposal Units

For a complete list of sources checked, see Appendices A and B, Sections II and III.

(3) A document from the Commander Fleet Air, West Coast, indicated that floating type horizontal bombing targets should be moved from the section base in San Diego, California to the Naval Air Station in San Diego, California for installation in the Salton Sea (see document F-2).

(4) Another document from the Aircraft Southern California Sector, Western Sea Frontier further stated that the specific target layout would be that of a pyramid type designed for high altitude and dive-bombing. It further stated that no water filled bombs over 100 pounds would be used on water bombing targets. The accompanying table to this document specifies that only practice bombs would be used (see document F-3). Practice bombs of this type commonly used in World War II are shown in Appendix D (see documents D-1 and D-2).

(5) A document from the Chief of the Bureau of Ordnance is a listing of ordnance shipped to the Naval Air

Station, San Diego. The shipment included 3,000 MK 15 Mod 2 water or sand filled practice bombs, which would probably have been the bombs selected to bomb the floating bombing targets positioned in the Salton Sea (see document F-4).

**c. Personnel Interviews**

(1) Several individuals were interviewed that were able to provide general site and OE related information pertaining to the former bomb target.

(2) Mr. Dick Chirico works at the Salton Sea State Park Visitor's Center. This center provides information on the Salton Sea, surrounding area and history of the Salton Sea State Park. Mr. Chirico stated that over the years, there has been a tremendous amount of excavating throughout the park for the building of roads, boat launches, buildings and the laying of water and electrical lines. Since the park opening in the early 1950s, he has never heard of any incident involving ordnance or ordnance related debris. He further stated that the Salton Sea has risen in the last fifty years due to agriculture irrigation runoff, causing the shoreline to constantly change (see document I-1).

(3) Mr. Daniel Duarte works for the Imperial Irrigation District in the engineering services department. He has worked projects all around the Salton Sea area and has never seen or heard of any ordnance or ordnance related debris being found in or around the site (see document I-2).

**5. SITE ELIGIBILITY**

**a. Confirmed Formerly Used Defense Sites**

(1) The War Department usage of this site is discussed in sections 2a and 3a of this report. The site was acquired by the U.S. Navy during the Second World War and remained under their control until site closure in 1946.

(2) By 1946, the former bomb target was declared excess to the Navy's needs. The site lease was terminated, danger areas were rescinded, and the site property was released back to its original owner. Today, no ownership of any part of the former bombing site remains with the Department of Defense (see Table 3-1 and Plate 4).

**b. Potential Formerly Used Defense Sites**

No other Formerly Used Defense Sites were identified during this investigation.

## 6. VISUAL SITE INSPECTION

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

(1) On 5 December 2001, members of the ASR research team traveled to the former bomb target. Only a small portion of the former bomb target site was on land. The northeast corner of the site was located west of State Highway 111, within the confines of the Salton Sea State Recreation Area. The primary task of the site inspection team was to assess the former site for OE presence. The on-site inspection was limited to non-intrusive methods in that subsurface sampling was not authorized nor permitted.

(2) Prior to the on-site visit, a thorough review of all available reports, historical documents and available reference material gathered during the archival search was reviewed to ensure awareness of potential ordnance usage and types.

(3) A site safety plan was developed and was utilized by the assessment team to assure safety from injury during the site inspection (reference B-3). A pre-inspection briefing was conducted which stressed that OE should only be handled by military EOD personnel.

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

(1) The former bomb target can be accessed by heading southeast from Indio, California and driving approximately 37 miles down State Highway 111. Once there, the 20 percent of the target site that is dry land is located immediately west of the highway. Distance from the highway to the Salton Sea shoreline is approximately one-quarter of a mile. The surrounding land is nearly level with a slight slope from the highway toward the Salton Sea. Surrounding vegetation and desert shrubbery is sparse due to the high salt and selenium content in the soils and the extremely dry climate (see photographs J-1, J-2, J-3, J-4 and Plate 3). This area is located in the northeastern corner of the bombing target and falls within the boundary of the Salton Sea State Recreation Area. This site affords recreational access and camping areas, but is primitive in comparison to other recreational areas of the park which offer the full range of amenities such as asphalt pads, full utility hookups, parking areas, cabanas, barbeque pits, restrooms and playgrounds for children (see photograph J-7).

(2) The remaining 80 percent of the site is water. The Salton Sea has a history for significant wave

action during storms due to the large expanse of open water. Water depths vary somewhat throughout the sea, but 30 feet is approximately the depth where the former bombing target would have most likely been positioned. No OE or OE related material was discovered on the shoreline in the area of the subject site (see photographs J-5 and J-6).

(3) The site inspection team examined the site by vehicle and on foot. No former moorings were detected from the shore that could have been used to anchor the floating bomb target. In addition, no pilings were visible off shore. The site inspection team did not observe any OE or OE related material in this area.

## 7. EVALUATION OF ORDNANCE HAZARDS

### a. **General Procedures**

(1) Each sub-site was evaluated to determine confirmed, potential, or no ordnance presence.

(2) Confirmed ordnance and explosives (OE) presence is based on verifiable historical record 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.

(3) 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 (hear-say evidence).

(4) Sub-sites with no ordnance presence are based on a lack of confirmed or potential ordnance presence. Additional field data are not needed to assess no ordnance sub-sites. There is no evidence to indicate or suggest the existence of present day ordnance. The entire site is considered to have **no ordnance presence**.

**b. Area A: Bomb Target**

(1) Throughout the archive records search and site inspection, nothing was found to indicate that high altitude or dive-bombing activity ever actually took place at this target. The site inspection team noticed that there was no present or former evidence of road access to the target, leading the team to speculate that the target could have been installed, but never used. The bomb target closure documentation indicates that the target was slated to be removed and that no site restoration would be required. In addition, the land portion of the site was absent of any former Department of Defense structures, and showed no evidence of former DOD activity.

(2) Based on all research material available, the research team concluded that there has never been any report of anyone finding OE at the site (see documents I-1 and I-2). There was visual evidence that individuals traverse the land portion of the target site for recreational pursuits because 4 wheel drive off road vehicle tracks were noted. No reports by these individuals or any others reporting the discovery of OE were ever documented. One can assume, however, that if the floating bomb target were used, the practice bombs would most likely have ended up at the bottom of the highly saline Salton Sea at a depth of approximately 30 feet. The MK 15 Mod 2 practice bomb did

not have a live signal component. It was filled with water or a mixture of sand and water for spotting purposes. This presented no explosive hazard. The MK 15 Mod 3 practice bomb used a signal with a 1 pound black powder spotting charge. However, this signal was so constructed as to allow moisture into the explosive mixture. It is highly improbable that the practice ordnance, if present, could still have any hazardous components. If black powder had been present, the nitrates inherent to the explosive would have dissolved after more than 55 years. Based on all available information, it can be concluded that this area has **no ordnance presence**.

8. SITE ORDNANCE TECHNICAL DATA

a. **End Item Technical Data**

(1) While no list of the exact models of ammunition used at the former bomb target could be located, it can be assumed that the most common types of ammunition were used there.

(2) Table 8-1 has been developed to establish a list of possible ordnance items that may have been used on the former floating bombing target (see documents D-1 and D-2). As there is no evidence that any of these items were actually used or remained at the site, this is included for reference only. The model numbers used to delineate possible types are speculative and are based on common models that existed during World War II.

TABLE 8-1 AMMUNITION USED AND EXPLOSIVE/CHEMICAL FILLERS			
ITEM	TYPE/MODEL	FILLER/WEIGHT	FUZE TYPE
Bomb, Practice	Mk 15 Mod 2	Water or Sand 100 Pounds	None
Bomb, Practice	Mk 15 Mod 3	Water or Sand 100 Pounds	Mk 247 Mod 0 Inert
Signal	Mk 7 Mod 0	Black Powder 1 Pound	None

b. Table 8-2 on the next page is a listing of chemical fillers for the ordnance listed in Table 8-1 (Table is for reference only and does not indicate OE presence on site).

TABLE 8-2  
SUMMARY OF SITE ORDNANCE FILLERS

EXPLOSIVE MATERIAL	SYNONYMS	CHEMICAL COMPOUNDS
Black Powder 75% Potassium Nitrate	Salt Peter, Niter	$KNO_3$
10% Sulfur		S
15% Charcoal		C

9. EVALUATION OF OTHER SITE INFORMATION

There are no other known environmental hazards at the former bomb target.

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**APPENDIX A**

**REFERENCE SOURCES**

**Reference Sources**

Organizations	Name	Telephone	Nature of Support
<b>GOVERNMENT SOURCES</b>			
<b>FEDERAL AGENCIES</b>			
<b>Department of Defense</b>			
Defense Technical Information Center and Secure STINET 8725 John J. Kingman Rd Suite 0944 Fort Belvoir, VA 22060-6218	Computer Search (STINET and DTIC)	(703) 427-8274 (703) 767-8228	On-line computer search. No information relating to site.
Department of Defense Explosives Safety Board (DDESB) Historical Accident Database 2461 Eisenhower Avenue Alexandria, VA 22331-0600	Computer Search	(703) 325-1369	On-line computer search. No information relating to site.
<b>Army</b>			
MANSCEN Library 597 Engineer Loop Bldg 3202, Suite 200 Fort Leonard Wood, MO 65473-8928	Dr. Wright	(573) 563-4109	No information relating to site.
Rock Island Arsenal Museum ATTN: SIORI-CFS-M Building 60 Rock Island, IL 61299	Chris Leinicke	(309) 782-5021	No information relating to site.
IOC Historical Office ATTN: AMSIO-PA, Building 390 Rock Island Arsenal Rock Island, IL 61299	Tom Slattery	(309) 782-1450	No information relating to site.

**Reference Sources**  
(continued)

Organizations	Name	Telephone	Nature of Support
<b>GOVERNMENT SOURCES</b>			
<b>Department of Defense (continued)</b>			
<b>Army (continued)</b>			
U.S. Army SBCCOM ATTN: AMSSB-SCI-H 5232 Fleming Road Aberdeen PG, MD 21010	Kathleen Ciolfi	(410) 436-4430	No information relating to site.
U.S. Army Military History Institute Reference Library 22 Ashburn Drive Carlisle Barracks Carlisle, PA 17013-5008	Louise Friend John Slonaker	(717) 245-3103	No Information relating to site.
U.S. Army Military History Institute Archives 22 Ashburn Drive Carlisle Barracks Carlisle, PA 17013-5008	David Keough	(717) 245-3189	No Information relating to site.
U.S. Army Military History Institute Photo Archives 22 Ashburn Drive Carlisle Barracks Carlisle, PA 17013	Mike Winey	(717) 245-3434	No Information relating to site.
USACE, Los Angeles District ATTN: CESPL-PM-M P.O. Box 2288 Mobile, AL 36628	Debra Castens FUDS PM	(213) 452-3990	PAE, site information provided.

**Reference Sources**  
(continued)

Organizations	Name	Telephone	Nature of Support
<b>GOVERNMENT SOURCES</b>			
<b>Department of Defense (continued)</b>			
<b>Army (continued)</b>			
USACE, San Diego Project Office ATTN: CESPL-CO-SS 16885 West Bernardo Road, Suite 300-B San Diego, CA 92127	B.J. Allen	(858) 674-6765 (858) 674-6766	No information relating to site.
USACE, Los Angeles District Cadastral Branch 911 Wilshire Boulevard Los Angeles, CA 90017-3401	Richard Nagle Armando Moneu	(213) 452-3137 (213) 452-3138	No information relating to site.
USACE, Los Angeles District Real Estate Division 911 Wilshire Boulevard Los Angeles, CA 90017-3401	Delores Henderson	(213) 452-3164	No information relating to site.
EOD 710 <sup>th</sup> Ordnance Company Naval Submarine Base San Diego P.O. Box 6376 San Diego, CA 92166	CPT Nelson	(619) 553-7291	No information relating to site.
U.S. Army Ordnance Museum ATTN: ATSL-DOS-M Building 2601 Aberdeen PG, MD 21005-5201	Dr. Atwater	(410) 278-3602	No information relating to site.
U.S. Army Center of Military History 103 Third Avenue Fort McNair Washington, D.C. 20319-5008	Staff	(202) 685-2733	See Appendix B, Section II, Parts A and B.

**Reference Sources**

(continued)

Organizations	Name	Telephone	Nature of Support
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**GOVERNMENT SOURCES**

**Department of Defense (continued)**

**Army (continued)**

HQ, USACE-Office of History Humphreys Engineer Center Attn: CEHO-ZA 7701 Telegraph Road Alexandria, VA 22310	Staff	(703) 428-6554	See Appendix B, Section II, Parts A and B
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**Air Force**

Air University Library 600 Chennault Circle, Building 1405 Maxwell AFB, AL 36112-6424	Reference Services	(334) 953-2888	No information relating to site.
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Air Force Historical Research Agency (AFHRA) Information Systems Division 600 Chennault Circle, Bldg. 1405 Maxwell AFB, AL 36112-6424	Sheila Roten Essie Roberts	(334) 953-6884 (334) 953-2439	No information relating to site.
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Air Force Historical Research Agency Research Division 600 Chennault Drive, Bldg. 1405 Maxwell AFB, AL 36112	Joe Caver	(334) 953-5834	No information relating to site.
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**Navy**

Naval Historical Center Washington Navy Yard Naval Aviation History Branch 901 M Street, SE Washington, DC 20374-5060	Staff	(202) 433-4407	See Appendix B, Section II, Parts A and B
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**Reference Sources**

(continued)

Organizations	Name	Telephone	Nature of Support
<b>GOVERNMENT SOURCES</b>			
<b>Department of Defense (continued)</b>			
<b>Navy (continued)</b>			
NAVEODTECDIV Technical Library 2008 Stump Neck Road Indianhead, MD 20640-5070	Betty Arbogast Dawn Risko	(301) 743-6834	No information relating to site.
Naval Historical Center Washington Navy Yard Operational Archives 901 M Street, SE Washington, DC 20374-5060	Staff	(202) 433-2833	See Appendix B, Section II, Parts A and B
Marine Corps Historical Center Washington Navy Yard 901 M St., SE, Bldg. 58 Washington, DC 20374-504	Staff	(202) 433-3447	See Appendix B, Section II, Parts A and B
Marine Corps EOD Detachment HQHQRON Box 99160 MCAS Yuma, AZ 85369-9160	MSG McPartland (NCOIC)	(928) 269-2788	No information relating to site.
Naval Facilities Engineering Services Technical Information Center ATTN: Code 72 1100 23rd Avenue Port Hueneme, CA 93043	Brian Thompson	(805) 982-1124	No information relating to site.

**Reference Sources**

(continued)

Organizations	Name	Telephone	Nature of Support
<b>GOVERNMENT SOURCES</b>			
<b>Department of Defense (continued)</b>			
<b>Navy (continued)</b>			
Naval Historical Center Washington Navy Yard Navy Department Library 901 M St., SE Washington, DC 20374-5060	Staff	(202) 433-4132	See Appendix B, Section II, Parts A and B
U.S. Naval War College Archives 686 Cushing Road Newport, RI 02841-1207	Dr. Evelyn Cherpack	(401) 841-2435	No information relating to site.
U.S. Naval War College Library 686 Cushing Road Newport, RI 02841-1207	Alice Juda Maggie Rauch	(401) 841-4551	No information relating to site.
U.S. Naval War College Museum 686 Cushing Road Newport, RI 02841-1207	Tony Nicolosi Bob Cembrola	(401) 841-4052	No information relating to site.
Naval Facility Engineering Command SW Division 1220 Pacific Hwy, Bldg. 127 San Diego, CA 92132	Tom Phelps Chris Maves	(619) 532-1169 (619) 532-3769	No information relating to site.
NAF El Centro Library Building 110, Code 60 El Centro, CA 92243	John Crow	(760) 339-2470	No information relating to site.

**Reference Sources**

(continued)

Organizations	Name	Telephone	Nature of Support
<b>GOVERNMENT SOURCES</b>			
<b>Navy (continued)</b>			
NAF El Centro Library Building 110, Code 60 El Centro, CA 92243	Staff	(760) 339-2470	No information relating to site.
<b>National Archives and Records Administration</b>			
NARA-Pacific Region (San Francisco) 1000 Commodore Drive San Bruno, CA 92677	John Hedger Kathleen O'Connor Barbara Bepler	(650) 876-9018	See Appendix B, Section III, Parts A and B
NARA-Archives I (Old Military and Civil Textual Division) Pennsylvania Avenue and 7th Street, NW Washington, DC 20408	Staff	(202) 208-1903 (202) 208-0370 (202) 219-6273	See Appendix B, Section II, Parts A and B
NARA-Archives II (Cartographic and Architectural Branch) 8601 Adelphi Road College Park, MD 20740	Staff	(301) 713-7040	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 (Motion Picture, Sound, and Video Branch) 8601 Adelphi Road College Park, MD 20740	Staff	(301) 713-7060	See Appendix B, Section II, Parts A and B

**Reference Sources**

(continued)

Organizations	Name	Telephone	Nature of Support
<b>GOVERNMENT SOURCES</b>			
<b>National Archives and Records Administration (continued)</b>			
NARA-Pacific Region (Laguna Niguel) 24000 Avila Road Laguna Niguel, CA 92677	Bill Doty Paul Wormser	(949) 360-2641	See Appendix B, Section II, Parts A and B
NARA-Archives II (Textual Reference Branch) 8601 Adelphi Road College Park, MD 20740	Staff	(301) 713-7250	See Appendix B, Section II, Parts A and B
Washington National Records Center 4205 Suitland Road Suitland, MD 20746-8001	Staff	(301) 457-7190	See Appendix B, Section II, Parts A and B
National Personnel Records Center (Military Personnel Records) 9700 Page Avenue St. Louis, MO 63132-5100	Wilson Sullivan John Daly	(314) 538-4085	See Appendix B, Section II, Parts A and B
<b>Department of Agriculture</b>			
Natural Resources Conservation Service 177 N. Imperial Ave. El Centro, CA 92243	Staff	(760) 352-3531 Ext. 3	Provided Soil Survey for Imperial County.

**Reference Sources**  
(continued)

Organizations	Name	Telephone	Nature of Support
<b>GOVERNMENT SOURCES</b>			
<b>Department of Agriculture (continued)</b>			
Consolidated Farm Service Agency 177 N. Imperial Ave. El Centro, CA 92243	Staff	(760) 352-3531 Ext. 2	Provided aerial photographs of Imperial County.
<b>Department of the Interior</b>			
USGS Information Services Box 25286, Bldg 810 Denver Federal Center Denver, CO 80225	Customer Service Neil Darling	(303) 202-4700 (703) 264-3001	Site area topographical maps provided.
Bureau of Land Management 1661 South 4 <sup>th</sup> Street El Centro, CA 92243	Staff	(760) 337-4400 (760) 337-4473	No information relating to site.
Sonny Bono Salton Sea National Wildlife Refuge 906 West Sinclair Road Calipatria, CA 92233-9744	Jihadda Govan	(760) 348-5278	No information relating to site.
<b>Department of Commerce</b>			
NOAA National Climatic Data Center Federal Building, Room 305 Ashville, NC 28801	Yolanda Goosch Sam McCowan	(704) 271-4272	State climatic data provided.
<b>United States Congress</b>			
Library of Congress Prints and Photographs Division 101 Independence Avenue, SE Washington, DC 20540-4650	Staff	(202) 707-5000	See Appendix B, Section II Parts A and B

**Reference Sources**  
(continued)

Organizations	Name	Telephone	Nature of Support
<b>GOVERNMENT SOURCES</b>			
<b>United States Congress (continued)</b>			
Library of Congress Geography and Map Division 101 Independence Avenue, SE Washington, DC 20540-4650	Staff	(202) 707-5000	See Appendix B, Section II Parts A and B
<b>State Agencies</b>			
California Department of Fish and Game 1416 Ninth Street Sacramento, CA 95814	Website: www.dfg.ca.gov	(916) 653-7644	Provided endangered species information for Imperial County.
California Highway Patrol 2331 Hwy 86 Imperial, CA 92251	Steve Wills	(760) 482-2500	No information relating to site.
California State Archives 1020 East O. St. Sacramento, CA 92415	Mr. Metzger	(916) 653-2246	No information relating to site.
California State Library California History Section 914 Capitol Hall Library and Courts Building Sacramento, CA 94237	John Gonzales Sybylle Zemitis	(916) 654-0176	No information relating to site.
California State Library Government Documents Section 914 Capitol Hall Library and Courts Building Sacramento, CA 94237-0001	Brent Murphy	(916) 654-0069	No information relating to site.

**Reference Sources**

(continued)

**GOVERNMENT SOURCES****State Agencies (continued)**

State Historical Preservation  
Office  
Southeast Information Center  
Imperial Valley College Desert  
Museum  
11 Frontage Road  
P.O. Box 430  
Ocotillo, CA 92259

Jay Von Werlhof  
Kay White

(760) 358-7016

No information relating to site.

**County and Local Agencies**

Brawley Public Library  
400 Main Street  
Brawley, CA 92227

Staff

(760) 344-1891

No information relating to site.

El Centro Police Department  
150 North 11<sup>th</sup> St.  
El Centro, CA 92243

Raymond Loera

(760) 352-2111

No information relating to site.

El Centro Public Library  
539 State Street  
El Centro, CA 92243

Victor Zazueta

(760) 337-4565

No information relating to site.

Imperial County Assessor  
940 West Main Street  
El Centro, CA 92243-0283

Staff

(760) 482-4244

Provided deeds for site.

Imperial County Fire Department  
Arson and Bomb Unit  
2514 La Brucherie Road  
Imperial, CA 92251

Bradley Garrison

(760) 355-1191

No information relating to site.

**Reference Sources**

(continued)

Organizations	Name	Telephone	Nature of Support
<b>GOVERNMENT SOURCES</b>			
<b>County and Local Agencies (continued)</b>			
Imperial County Library 1647 West Main Street El Centro, CA 92243	Staff	(760) 353-3500	No information relating to site.
Imperial County Recorder 940 West Main Street El Centro, CA 92243-2839	Staff	(760) 482-4272	No information relating to site.
Imperial County Sheriff 383 Main Street Brawley, CA 92227	Gabe Vella	(760) 344-2615	No information relating to site.
Imperial County Sheriff 328 Applestill Road El Centro, CA 92243	Staff	(760) 355-1332	No information relating to site.
Imperial Public Library 200 West 9 <sup>th</sup> Street Imperial, CA 92251	Staff	(760) 355-1332	No information relating to site.
Imperial Valley Free Library Holtville Branch P.O. Box 755 Holtville, CA 92250	Staff	(760) 356-2385	No information relating to site.



**Reference Sources**

(continued)

Organizations	Name	Telephone	Nature of Support
<b>GOVERNMENT SOURCES</b>			
<b>County and Local Agencies (continued)</b>			
Imperial Valley Free Library 1331 South Clark Road El Centro, CA 92423	Victor Zazueta	(760) 337-4565	No information relating to site.
Imperial Valley Irrigation District 333 East Barioli Ave. Imperial, CA 92251	Linda Trimm Sherry O'Malley	(760) 339-9426 (760) 339-9282	Provided aerial photographs of site.
Indio Police Department 46-800 S. Jackson St. Indio, CA 92201	Staff	(760) 347-8522	No information relating to site.
La Quinta Sheriff 82695 Doctor Carreon Boulevard Indio, CA 92201	Staff	(760) 863-8990	No information relating to site.
Pioneers Museum and Cultural Center Imperial County Historical Society 373 East Aten Road Imperial, CA 92251	Staff	(760) 352-1165 (760) 352-3211	No information relating to site.
Riverside County Sheriff 4095 Lemon St. Riverside, CA 92502	Staff	(909) 955-2400	No information relating to site.

**Reference Sources**

(continued)

Organizations	Name	Telephone	Nature of Support
<b>GOVERNMENT SOURCES</b>			
<b>County and Local Agencies (continued)</b>			
Salton City Library Civic Building Salton City, CA 92502	Rita Hunt	(760) 394-4446 (760) 394-5503	No information relating to site.
<b>NON-GOVERNMENT SOURCES</b>			
<b>National</b>			
Coast Defense Study Group, Inc. 731 Baltimore Pike Bel Air, MD 21014	Publication		No information relating to site.
Council on America's Past 518 Why Worry Lane Phoenix, AZ 85021	Heliogram Publication	(800) 396-4693	No information relating to site.
On-line Computer Library Center And First Search 6565 Frantz Road Dublin, OH 43017-3395	Computer Search (OCLC) and (First Search)	(800) 848-5878	No information relating to site.

**ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR  
SALTON SEA BOMB TARGET (FBT 16) (#57)  
IMPERIAL COUNTY, CALIFORNIA  
PROJECT NUMBER J09CA018701**

**APPENDIX B**

**REFERENCES AND ABSTRACTS**

APPENDIX B  
REFERENCES AND ABSTRACTS

Table of Contents

SECTION I	References and Abstracts
SECTION II	National Capitol Region Archive Search References
	Part A: Positive Reports
	Part B: Negative Reports
SECTION III	Regional National Archives Search References
	Part A: Positive Reports
	Part B: Negative Reports

APPENDIX B

SECTION I

REFERENCES AND/OR ABSTRACTS

- B-1. U.S. Army Corps of Engineers, Los Angeles District, DERP-FUDS Preliminary Assessment of Eligibility, Salton Sea Bomb Target (FBT 16) (#57) (E-1).
- B-2. U.S. Army Corps of Engineers, Rock Island District Main Site Safety Plan, CENCN-ED-DN, 25 June 1992.
- B-3. Site Specific Safety and Health Plan #A-286 for Salton Sea Bomb Target (FBT 16) (#57), CEMVR-ED-DO, 21 November 2001.
- B-4. National Oceanic and Atmospheric Administration, Climate of California, Reprinted June 1982.
- B-5. U.S. Department of Agriculture Soil Conservation Service, Soil Survey of Imperial County California Area, October 1981.
- B-6. U.S. Department of the Interior, U.S. Fish and Wildlife Service, Federal threatened, endangered, proposed, and candidate taxa that occur or are anticipated to occur in the vicinity of the Salton Sea Test Base, San Diego County, California (1-6-94-SP-61), January 1994 (E-2).
- B-7. State of California, Department of Fish and Game, California Natural Diversity Data Base (CNDDB), available on website at: <http://www.dfg.ca.gov/>, 1 February 2001.
- B-8. Document, Status of Department of the Interior Lands Under Jurisdiction of the Navy Department, Property Administration Division Report, April 1950, NARA, Archives II, RG 71 (Records of the Bureau of Yards and Docks), Entry 1001: Naval Property Case Files, 1941-1958, Box 119.
- B-9. Document, Military Leasing Plan for Salton Sea Test Base, Imperial County, California, NARA, Pacific Region (Laguna Niguel), RG 77, Military Site Audit Files, 17 March 1948, Box 105.
- B-10. Memorandum, Water targets declared surplus to Navy's needs, Commandant's Office, Eleventh Naval District, San Diego,

California, NARA, Pacific Region (Laguna Niguel), RG 181, Commandant's Office - General Correspondence 1924-1955, Box 422.

B-11. Documents, Real Estate Information, Salton Sea Bomb Target (FBT 16) (#57), Site NO. J09CA018700, U.S. Army Corps of Engineers, Los Angeles District, Los Angeles, California, 24 August 1944 - 28 March 1946.

B-12. Department of the Navy, Commandant's Office Eleventh Naval District, Document with Attachment, "Use of Land in Salton Sea Area", circa March 1943, NARA, Pacific Region (Laguna Niguel), RG 181, Box 247.

B-13. Department of the Navy, Eleventh Naval District, "Bombing Target Sites...", NARA, Pacific Region (Laguna Niguel), RG 181, Box 247, 7 May 1943.

B-14. Department of the Navy, "Aircraft Operating Area, Vicinity of Salton Sea", 8 October 1942, NARA, Pacific Region (Laguna Niguel), RG 181, Box 38 (F-1).

B-15. Department of the Navy, United States Pacific Fleet, "Floating Type Horizontal Bombing Targets", 5 December 1942, NARA, Pacific Region (Laguna Niguel), RG 181, Box 167 (F-2).

B-16. Department of the Navy, Commander, Southern California Sector, "Bombing Targets in Southern California Sector, Western Sea Frontier", 24 August 1944, NARA, Pacific Region (Laguna Niguel), RG 181, Box 167 (F-3).

B-17. Department of the Navy, Chief of the Bureau of Ordnance, "Ordnance Requirements", 12 February 1945, NARA, Archives II, RG 74, Entry 1002A, Box 1196 (F-4).

B-18. Department of the Navy, Commander, Eleventh Naval District, "Land and Water Targets - Numbering of", 23 April 1945, NARA, Pacific Region (Laguna Niguel), RG 181, Box 200 (F-5).

B-19. Series of Memorandums, "Discontinuance of Bombing and Rocket Ranges, Salton Sea", 24 April - 3 December 1946, NARA, Archives II, RG 71 (Records of the Bureau of Yards and Docks), Entry 1001: Naval Property Case Files, 1941-1958, Box 119.

B-20. Department of the Navy, Chief of Naval Operations, "Compilation of Naval Air Targets, Gunnery and Bombing Areas", 4 November 1946, NARA, Pacific Region (Laguna Niguel), RG 181, Box 229 (F-6).

B-21. Department of the Navy, Commander, Eleventh Naval District, "Discontinuance of Target and Bombing Ranges - Decontamination of", 23 April 1945, NARA, Pacific Region (Laguna Niguel), RG 181, Box 251.

B-22. Memorandum, "Targets - Discontinuance of", 28 March 1946, NARA, Pacific Region (Laguna Niguel), RG 181, Box 200 (F-7).

B-23. Department of the Navy, "Status of the Department of the Interior Lands Under Jurisdiction of the Navy Department", April 1950, NARA, Archives II, RG 71, Entry 1001, Box 119.

B-24. Memorandum, "Lease Discontinuance of Section 15 (FBT 16) (#57)", Public Works Officer, Eleventh Naval District, San Diego, California, 14 February 1946 (F-8).

B-25. Map, Assessor Tax Map, Section 15 & 16, Imperial County Assessor, 6 December 2001 (G-1).

B-26. Document, Section 15 Ownership Information, Imperial County Assessor, 6 December 2001 (G-2).

B-27. Range Rule Data Collector, U.S. Army Corps of Engineers, St. Louis District, St. Louis, MO (D-1, D-2).

B-28. TM 9-1904, Ammunition Inspection Guide, War Department, Washington, 2 March 1944.

B-29. Vicinity Map, Salton Sea Bomb Targets, NARA, Archives II, RG 71 (Records of the Bureau of Yards and Docks), Entry 1001: Naval Property Case Files, 1941-1958, Box 11 (L-1).

B-30. Department of the Army, Technical Manual, OP 1664, U.S. Explosive Ordnance, 28 May 1947.

B-31. Department of the Army, Technical Manual, TM 9-1325-200, Bombs and Bomb Components, April 1966.

SECTION II

NATIONAL CAPITOL REGION ARCHIVES FINDINGS

PART A

POSITIVE FINDINGS

SALTON SEA BOMB TARGET (FBT 16) (#57)  
IMPERIAL COUNTY, CALIFORNIA



SECTION II  
NATIONAL CAPITAL REGION ARCHIVES FINDINGS  
PART A  
POSITIVE FINDINGS

SALTON SEA BOMB TARGET (FBT 16) (NO. 57), CA

Also Researched Under: Imperial County, CA; Salton Sea, CA; Salton Sea State Recreation Area, CA; Imperial Irrigation District, CA; 11<sup>th</sup> Naval District; and U.S. Naval Air Station, San Diego, CA

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

RG 18 (Records of the Army Air Force)

Entry 1D: Security Classified Decimal File, 1945 - October 1948

Box 672

Letter Relative to atomic weapons tests, Salton Sea Bomb Range, 22 December 1947

RG 38 (Records of the Office of the Chief of Naval Operations)

Entry 2: General Correspondence, July 1942 - June 1946

Box 710

Correspondence Relative to Real Estate Acquisition, Salton Sea Seaplane Base Target Range, 6 June 1945

RG 71 (Records of the Bureau of Yards and Docks)

Entry 1001: Naval Property Case Files, 1941 - 1958

Box 11

Vicinity Map, Salton Sea Bomb Targets, Salton Sea, CA

Entry 1001: Naval Property Case Files, 1941 - 1958

Box 107

Correspondence Relative to Transfer of Navy Facilities and Property in Salton Sea Vicinity to War Department in Connection with Target Range, 19 January - 9 October 1941

SALTON SEA BOMB TARGET (FBT 16) (NO. 57), CA

Entry 1001: Naval Property Case Files, 1941 - 1958  
Box 111

Letter and Executive Order Relative to Real Estate Acquisition, Salton Sea Vicinity Bomb Target, 26 June 1940 - 9 March 1941

Entry 1001: Naval Property Case Files, 1941 - 1958  
Box 117

Correspondence Relative to Real Estate Acquisition, Salton Sea Vicinity Bomb Target Site for Naval Air Center, San Diego Training Activities, 7 May - 16 June 1943

Entry 1001: Naval Property Case Files, 1941 - 1958  
Box 119

Memorandum and Tables Relative to Discontinuance of Bombing and Rocket Ranges, Salton Sea, 24 April - 3 December 1946

Entry 1001: Naval Property Case Files, 1941 - 1958  
Box 119

Table, Status of Department of the Interior Lands Under Jurisdiction of the Navy Department, Property Administration Division Report, April 1950

RG 72 (Records of the Bureau of Aeronautics)

Entry 62B: General Correspondence, 1943 - 1945  
Box 3381

Letter Relative to Access Road Construction, El Centro and Salton Sea Rocket Targets, 15 June 1945

Entry 62B: General Correspondence, 1943 - 1945  
Box 3381

Letter Relative to Status, U.S. Naval Auxiliary Air Station, Salton Sea, 11 September 1945

RG 74 (Records of the Bureau of Ordnance)

Entry 1002A: Construction and Procurement Subject Files, 1945  
Box 1196

Letter Relative to Disposition of Photoflash Bombs, U.S. Naval Air Station, San Diego, 28 February 1945

SALTON SEA BOMB TARGET (FBT 16) (NO. 57), CA

Entry 1002A: Construction and Procurement Subject Files, 1945  
Box 1196

Naval Speedletter Relative to Authorization to Expend  
Training Bombs, U.S. Naval Air Station, San Diego,  
31 January 1945

Entry 1002A: Construction and Procurement Subject Files, 1945  
Box 1196

Naval Speedletter Relative to Bomb and Fuze Deliveries,  
U.S. Naval Air Station, San Diego, 8 January 1945

Entry 1002A: Construction and Procurement Subject Files, 1945  
Box 1196

Naval Speedletter Relative to Practice Bomb  
Requirements, U.S. Naval Air Station, San Diego,  
30 January 1945

Entry 1002A: Construction and Procurement Subject Files, 1945  
Box 1196

Naval Speedletter Relative to Training Aircraft Bomb  
Requirements, U.S. Naval Air Station, San Diego, 12  
February 1945

Entry 1002B: Construction and Procurement Subject Files, 1946  
Box 255

Naval Speedletter Relative to Disposition of Unneeded  
Bomb Type Ammunition, U.S. Naval Air Station, San Diego,  
25 February 1946

Entry 1002B: Construction and Procurement Subject Files, 1946  
Box 255

Report, Finding of Facts of General Inspection, Western  
Sea Frontier, Aviation Ordnance Loading Conditions, U.S.  
Naval Air Station, San Diego

Entry 1002C: Construction and Procurement Subject Files, 1947  
Box 189

Correspondence Relative to Assignment of Black Powder  
Magazine, U.S. Naval Air Station, San Diego, 30 April -  
5 May 1947

Entry 1002C: Construction and Procurement Subject Files, 1947  
Box 189

Letter Relative to Ammunition Allowance and Storage,  
U.S. Naval Air Station, San Diego, 18 April 1947

SALTON SEA BOMB TARGET (FBT 16) (NO. 57), CA

Entry 1002C: Construction and Procurement Subject Files, 1947  
Box 189

Naval Speedletter Relative to Mixers, Incendiary at U.S.  
Naval Air Station, San Diego, 20 March 1947

Entry 1002C: Construction and Procurement Subject Files, 1947  
Box 189

Naval Speedletter Relative to Rocket Required for  
Training, U.S. Naval Air Station, San Diego, 16 April  
1947

Entry 1002C: Construction and Procurement Subject Files, 1947  
Box 189

Telegram Relative to Aircraft Bomb Requirements, U.S.  
Naval Air Station, San Diego, 19 March 1947

Entry 1002C: Construction and Procurement Subject Files, 1947  
Box 190

Communication Relative to Disposition of Pyrotechnic  
Ammunition, U.S. Naval Air Station, Miramar (San Diego),  
22 November 1947

Entry: General Correspondence, Confidential, 1944  
Box 500

Letter and Enclosure Relative to Rocket and Rocket  
Component Stowage, U. S. Naval Air Station, San Diego,  
24 August 1944

Entry: General Correspondence, Confidential, 1944  
Box 500

Letter Relative to Magazine Areas and Magazine  
Requirements, U.S. Naval Air Station, San Diego,  
2 December 1944

Entry: General Correspondence, Confidential, 1944  
Box 500

Letters and Tables Relative to Magazine Facilities, U.S.  
Naval Air Station, San Diego, Including U.S. Naval  
Auxiliary Air Station, Salton Sea, 7 - 22 May 1944

**NARA - ARCHIVES II - STILL PICTURES BRANCH  
COLLEGE PARK, MD**

RG 80 (General Records of the Department of the Navy, 1798 - 1947)

#79062

Aerial Photograph, Salton Sea Auxiliary Seaplane Base,  
22 August 1943

#79063

Aerial Photograph, Salton Sea Auxiliary Seaplane Base,  
22 August 1943

#79064

Aerial Photograph, Salton Sea Auxiliary Seaplane Base,  
23 August 1943

#79065

Aerial Photograph, Salton Sea Auxiliary Seaplane Base,  
23 August 1943

#235777

Aerial Photograph, Auxiliary Air Station, Salton Sea,  
2 June 1944

**NAVAL HISTORICAL CENTER - AVIATION HISTORY OFFICE  
WASHINGTON, DC**

San Diego NAS

Box 292

History, U.S. Naval Air Station, San Diego, California,  
8 September 1917 - 1 June 1945; 1 June 1945 - 2 September  
1945

Box 292

History, U.S. Naval Air Station, San Diego, California,  
Part V: Reconversion from War to Peacetime Activities,  
2 September 1945 - 1 July 1946

Box 292

History, U.S. Naval Air Station, San Diego, California,  
Part VI, Quarterly Supplement, 2 July to 1 October 1946:  
The Beginning of Peacetime Stabilization

SALTON SEA BOMB TARGET (FBT 16) (NO. 57), CA

Box 292

History, U.S. Naval Air Station, San Diego, California,  
Part VII, Quarterly Supplement, 2 July to 1 October  
1946: The Beginning of Peacetime Stabilization

SECTION II

NATIONAL CAPITOL REGION ARCHIVES FINDINGS

PART B

NEGATIVE FINDINGS

SALTON SEA BOMB TARGET (FBT 16) (#57)  
IMPERIAL COUNTY, CALIFORNIA

SECTION II  
NATIONAL CAPITAL REGION ARCHIVES FINDINGS  
PART B  
NEGATIVE FINDINGS

SALTON SEA BOMB TARGET (FBT 16) (NO. 57), CA

Also Researched Under: Imperial County, CA; Salton Sea, CA; California Highway 111; Salton Sea National Wildlife Refuge, CA; 11<sup>th</sup> Naval District; and U.S. Naval Air Station, San Diego, CA

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**MARINE CORPS HISTORICAL CENTER  
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Geographic Files

**NARA - ARCHIVES I  
WASHINGTON, DC**

RG 38 (Records of the Office of the Office of the Chief of Naval Operations)  
Entry 275: Security Classified General Files Relating to the Development of Shore Stations, 1920 - 1942

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



SALTON SEA BOMB TARGET (FBT 16) (NO. 57), CA

- RG 71 (Records of the Bureau of Yards and Docks)  
Entry: General Correspondence, Shore Establishments,  
1925 - 1942
- RG 74 (Records of the Bureau of Ordnance)  
Entry 25: General Correspondence, 1936 - 1942  
Entry 62: General Correspondence, 1925 - 1942
- RG 80 (General Records of the Department of the Navy, 1798  
- 1947)  
Entry 22: General Correspondence, 1926 - 1949
- 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 - 1965
- RG 18 (Records of the Army Air Force)  
Entry 294: Security Classified Decimal File, October  
1942 - 1944
- RG 30 (Records of the Bureau of Public Roads)  
Entry 54: Highway Traffic Advisory Committee to the  
Defense Department, 1941 - 1945
- RG 35 (Records of the Civilian Conservation Corps)  
Entry 115: CCC Camp Inspection Reports, 1932 - 1942
- RG 38 (Records of the Office of the Chief of Naval  
Operations)  
Entry: CNO Administrative Correspondence, July 1943 -  
June 1946  
Entry 269: Base Maintenance Division, Minutes of Home  
Base Development Council
- RG 48 (Records of the Department of the Interior)  
Entry 349B: Central Classified Files, 1937 - 1953
- RG 51 (Records of the Office of Management and Budget)  
Entry 149A: War Projects Unit, General Files, 1940 -  
1945
- RG 52 (Records of the Bureau of Medicine and Surgery)  
Entry: Subject Files, 1941 - 1953

SALTON SEA BOMB TARGET (FBT 16) (NO. 57), CA

- RG 57 (Records of the United States Geological Survey)  
Entry 27: Correspondence and Related Records, 1906 - 1945
- RG 69 (Records of the Public Works Administration)  
Entry: Central Decimal Files, 1935 - 1944
- RG 71 (Records of the Bureau of Yards and Docks)  
Entry: Contract Correspondence, 1927 - 1942
- RG 72 (Records of the Bureau of Aeronautics)  
Entry 67: Confidential Correspondence, 1922 - 1944  
Entry 67A: Confidential General Correspondence, 1922 - 1947  
Entry 75A: Records of Divisions and Offices, Office Services Division, Central Correspondence, Secret Correspondence, 1939 - 1947  
Entry 1001: Unclassified General Correspondence, 1948 - 1959  
Entry 1003A: Confidential General Correspondence, 1948 - 1949  
Entry 1004B: Secret General Correspondence, 1949  
Entry 1021: Records Relating to Inactive Air Stations, 1943 - 1959
- RG 74 (Records of the Bureau of Ordnance)  
Entry 25: General Correspondence, Confidential, 1942  
Entry 25: General Correspondence, Restricted, 1942  
Entry 25: General Correspondence, Confidential, 1943  
Entry 25: General Correspondence, Restricted, 1943  
Entry 25: General Correspondence, Restricted, 1944  
Entry 1001: General Correspondence, 1907 - 1949  
Entry 1003A: Confidential General Correspondence, 1948 - 1949  
Entry 1014: General Correspondence, 1948 - 1959
- RG 80 (General Records of the Department of the Navy, 1800 - 1947)  
Entry: Assistant Secretary of War for Air Artemis Gates, General Correspondence, September 1941 - December 1945  
Entry: General Correspondence, July 1942 - June 1943  
Entry 16: Formerly Security Classified General Correspondence of the CNO/Secretary of the Navy, 1940 - 1947

SALTON SEA BOMB TARGET (FBT 16) (NO. 57), CA

- Entry 32G: General Correspondence of the Executive Officer of the Secretary of the Navy, July 1946 - January 1947
- Entry 153: Army - Navy Munition Board: Navy Section, Correspondence and Reports, 1922 - 1942
- Entry 256: Index to Reports from Shore Establishments, December 1943 - May 1944
- Entry 1318: General Correspondence, 1941 - 1945
- RG 121 (Records of the Public Building Service)  
Entry 80: Title Papers and Site Registers, 1938 - 1943
- RG 127 (Records of the U.S. Marine Corps)  
Entry 18A: General Correspondence, Office of the Commandant, January 1939 - June 1950
- RG 143 (Records of the Bureau of Supplies and Accounts)  
Entry 35: Military Construction Program Project Files, 1957 - 1964
- RG 162 (Records of the Federal Works Agency)  
Entry 21: Records of the War Public Works Program, 1941 - 1949
- RG 218 (Records of the Joint Chiefs of Staff)  
Entry: Series 1942 - 1959 (Geographic File)
- RG 225 (Records of Joint Army and Navy Boards and Committees)  
Entry 4: General Correspondence, 1922 - 1946  
Entry 4A: Army and Navy Munition Board Central Files, 1922 - 1941  
Entry 5: Security Classified General Correspondence, 1922 - 1945
- RG 269 (General Records of the General Services Administration)  
Entry 62: Real Property Disposal Case Files
- RG 270 (Records of the War Assets Administration)  
Entry 3: Office of War Information Subject Files, 1946 - 1949  
Entry 4: Records of the General Review Board, 1946 - 1948  
Entry 8: Records of the Real Property Review Board, 1946 - 1949

SALTON SEA BOMB TARGET (FBT 16) (NO. 57), CA

Entry 9: Subject File of the Central Office of Real Property, 1946 - 1949

RG 291 (Records of the Federal Property Resources Service)  
Entry 5: Real Property Disposal Case Files

RG 330 (Records of the Office of the Secretary of Defense)  
Entry 11: Inventories of Military Real Property, 1954 - 1957

RG 334 (Records of Interservice Agencies)  
Entry 15: Armed Forces Explosives Safety Board

RG 428 (General Records of the Department of the Navy, 1947 - Present)

Entry: Secretary of the Navy, Correspondence, 1948 - 1951

Entry 2: Formerly Security Classified General Correspondence of the Deputy Chief of Naval Operations, 1948 - 1952

Entry 5: Formerly Security Classified Chronological File, 1948 - 1950

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

Entry 12: Central Real Property Surveys

Entry 17: Records Relating to Property and Installation Surveys, 1978 - 1984

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

RG 30 (Records of the Bureau of Public Roads)

RG 71 (Records of the Bureau of Yards and Docks)

RG 74 (Records of the Bureau of Ordnance)

RG 80 (Records of the Department of the Navy)

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

RG 373 (Records of the Defense Intelligence Agency)

**NARA - ARCHIVES II - MOTION PICTURE, SOUND, AND  
VIDEO BRANCH  
COLLEGE PARK, MD**

RG 69 (Records of the Work Projects Administration)  
RG 200 (National Archives Gift Collection)  
RG 428 (General Records of the Department of the Navy)

**NARA - ARCHIVES II - STILL PICTURES BRANCH  
COLLEGE PARK, MD**

RG 30 (Records of the Bureau of Public Roads)  
RG 71 (Records of the Bureau of Yards and Docks)  
RG 74 (Records of the Bureau of Ordnance)  
RG 92 (Records of the Office of the Quartermaster General)  
RG 181 (Records of the Naval Districts and Shore  
Establishments)  
RG 428 (General Records of the Department of the Navy)

**NAVAL HISTORICAL CENTER - NAVY DEPARTMENT LIBRARY  
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United States Naval Administrative Histories

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Administrative Histories: The Navy in World War II

SECTION III

REGIONAL NATIONAL ARCHIVES FINDINGS

PART A

POSITIVE FINDINGS

SALTON SEA BOMB TARGET (FBT 16) (#57)  
IMPERIAL COUNTY, CALIFORNIA

SECTION III  
REGIONAL NATIONAL ARCHIVES FINDINGS  
PART A  
POSITIVE FINDINGS

SALTON SEA BOMB TARGETS

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

- RG 77, Records of the Office of the Chief of Engineers  
Military Site Audit Files  
Box #104  
Memo, Subject: Request for Acquisition of Land, 26 Dec 1945  
Memo, Subject: Acquisition of Salton Sea Bombing Range,  
26 Apr 1946
- Box #105  
Public Land Order 649, Withdrawing Public Lands for use of  
the United States Atomic Energy Commission, 12 Jun 1950  
Leasing Plan, Imperial County, CA - Salton Sea Test Base,  
17 Mar 1948  
Memo, Subject: Acquisition of Land for Bombing Range,  
16 May 1946  
Memo, Subject: Land Holdings at Salton Sea, 7 May 1947  
Memo, Subject: Acquisition of Public Domain - Salton Sea  
Test Base, Imperial County, CA, 3 Nov 1947, w/attachments
- RG 181, Records of Naval Districts and Shore Establishments  
Commandant's Office, Formerly Classified  
Box #51  
Memo, Subject: Concrete Runways at AAF Salton Sea,  
7 Dec 1942
- Box #56  
Memo, Subject: Naval Auxiliary Air Station, Salton Sea -  
Status of after VJ Day, 5 Sep 1945
- Commandant's Office, General Correspondence  
Box #52  
Memo, Subject: Aviation Facilities and Personnel Report,  
19 Jul 1955
- Box #60  
Memo, Subject: Salton Sea Water Bombing Target #57,  
17 Oct 1951

Box #61

Memo, Subject: Salton Sea Danger Area (D-303) Target #57,  
24 Jul 1953

Box #167

Memo, Subject: Bombing Targets in Southern California  
Sector, Western Sea Frontier, 24 Aug 1944

Box #200

Memo, Subject: Floating Type Horizontal Bombing Targets,  
5 Dec 1942

Memo, Subject: Acquisition of Land for Two Proposed Bombing  
Target Sites Located in the Southern Portion of Salton  
Sea, 7 Dec 1944

Telex, Subject: Salton Sea Skip Bombing Target, Undated

Memo, Subject: Acquisition of Land for Two Proposed Bombing  
Target Sites Located in the Southern Portion of Salton  
Sea, 25 Sep 1944

Memo, Subject: Acquisition of Land-Request for, 19 Sep 1944

Memo, Subject: Targets - Discontinuance of, 28 Mar 1946,  
w/attachments

Memo, Subject: Land and Water Targets - Numbering of,  
23 Apr 1945

Box #247

Memo, Subject: Use of Land in Salton Sea Area, 13 Mar 1943

Box #250

Memo, Subject: Navy Occupied Lands in Salton Sea Area -  
Status of, 6 Jun 1946

Box #251

Memo, Subject: Discontinuance of Target and Bombing Ranges -  
Decontamination of, 28 Feb 1947

Memo, Subject: Discontinuance of Target and Bombing Ranges,  
19 Feb 1947

Box #421

Routing Slip, Bombing Targets #50 and 51-Discontinuance of,  
25 Oct 1945

Box #422

Memo, Subject: Certain Water Targets Surplus to Navy Needs,  
2 Dec 1946

Box #561

Memo, Subject: Targets in 11<sup>th</sup> ND, 19 Mar 1948

Memo, Subject: Targets in 11<sup>th</sup> ND, 21 May 1948

Memo, Subject: Request for Certificate of Decontamination on  
Bombing Target #52, 23 Jun 1948



Memo, Subject: Target Sleds; Reports on, 3 Feb 1945

District Planning Officer

Box #18

Memo, Subject: Danger Areas - San Diego Area, 7 Feb 1942,  
w/endorsement

Memo, Subject: Danger Areas - San Diego Area, 24 Jan 1942,  
w/map

Box #38

Memo, Subject: Navy Operating Areas in Borrego and Imperial  
Valleys, 13 Mar 1941

Memo, Subject: NAAS Salton Sea - Request for Redesignation  
of, 1 Jun 1944

Memo, Subject: Mission of U.S. Naval Auxiliary Air Station,  
El Centro, CA, Revision of, 3 Nov 1950

Memo, Subject: Aircraft Operating Area, Vicinity of Salton  
Sea - Request for Allocation of, 8 Oct 1942

Memo, Subject: Concrete Runways at AAF Salton Sea,  
7 Dec 1942

Memo, Subject: Naval Air Bases, 11<sup>th</sup> ND, Roll-up Status as  
of 15 September 1946, 25 Sep 1946

Memo, Subject: NAAS Salton Sea, Status of, 12 Sep 1945

Memo, Subject: Salton Sea Seaplane Base, Imperial County,  
CA, Transfer of Lease and Issuance of Permit to War  
Department, 15 Feb 1946

SECTION III

REGIONAL NATIONAL ARCHIVES FINDINGS

PART B

NEGATIVE FINDINGS

SALTON SEA BOMB TARGET (FBT 16) (#57)  
IMPERIAL COUNTY, CALIFORNIA

SECTION III  
REGIONAL NATIONAL ARCHIVES FINDINGS  
PART B  
NEGATIVE FINDINGS

SALTON SEA BOMB TARGETS

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

RG 30, Records of the Bureau of Public Roads  
All Entries  
Nothing Found

RG 48, Records of the Office of the Secretary of the Interior  
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 156, Records of the Chief of Ordnance  
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

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

All Entries  
Nothing Found

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

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 77, Records of the Office the Chief of Engineers  
All Entries  
Nothing Found

RG 103, Records of the Farm Credit Administration  
All Entries  
Nothing Found

RG 121, Records of the Public Buildings Service  
All Entries  
Nothing Found

RG 127, Records of the U.S. Marine Corps  
All Entries  
Nothing Found

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

RG 175, Records of the Chemical Warfare Service  
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

**ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR  
SALTON SEA BOMB TARGET (FBT 16) (#57)  
IMPERIAL COUNTY, CALIFORNIA  
PROJECT NUMBER J09CA018701**

**APPENDIX C**

**GLOSSARY**

## APPENDIX C

### GLOSSARY

AAF	Army Air Field
AR	Army Regulation
BD/DR	Building Demolition/Debris Removal
CG	Commanding General
CEHNC	Corps of Engineers, Engineering & Support Center, Huntsville
CEMVR	Corps of Engineers, Rock Island District
CESPL	Corps of Engineers, Los Angeles District
CE	Corps of Engineers
CON/HTRW	Containerized Hazardous, Toxic, and Radioactive Waste
CWM	Chemical Warfare Material
DA	Department of the Army
DERP	Defense Environmental Restoration Program
DOD	Department of Defense
EE/CA	Engineering Evaluation/Cost Analysis
EOD	Explosive Ordnance Disposal
FDE	Findings and Determination of Eligibility
FUDS	Formerly Used Defense Sites
GSA	General Services Administration
HE	High Explosive
HTRW	Hazardous, Toxic and Radiological Waste
INPR	Inventory Project Report
IRA	Interim Removal Action
JEDMICS	Joint Engineering Drawings Management Information Control System
NARA	National Archives Records Administration
NDAI	No DOD Action Indicated
OE	Ordnance and Explosives
PAE	Preliminary Assessment of Eligibility
RA	Remedial Action
RAC	Risk Assessment Code
RG	Record Group
RPA	Real Property Accountability
SI	Site Inspection/Investigation
SOSAC-ESL	U.S. Army Technical Center for Explosives Safety, Ordnance Explosives Environmental Division
USACE	U.S. Army Corps of Engineers
UXO	Unexploded Ordnance
WAA	War Assets Administration
WD	War Department

**ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR  
SALTON SEA BOMB TARGET (FBT 16) (#57)  
IMPERIAL COUNTY, CALIFORNIA  
PROJECT NUMBER J09CA018701**

**APPENDIX D**

**TEXTS/MANUALS**

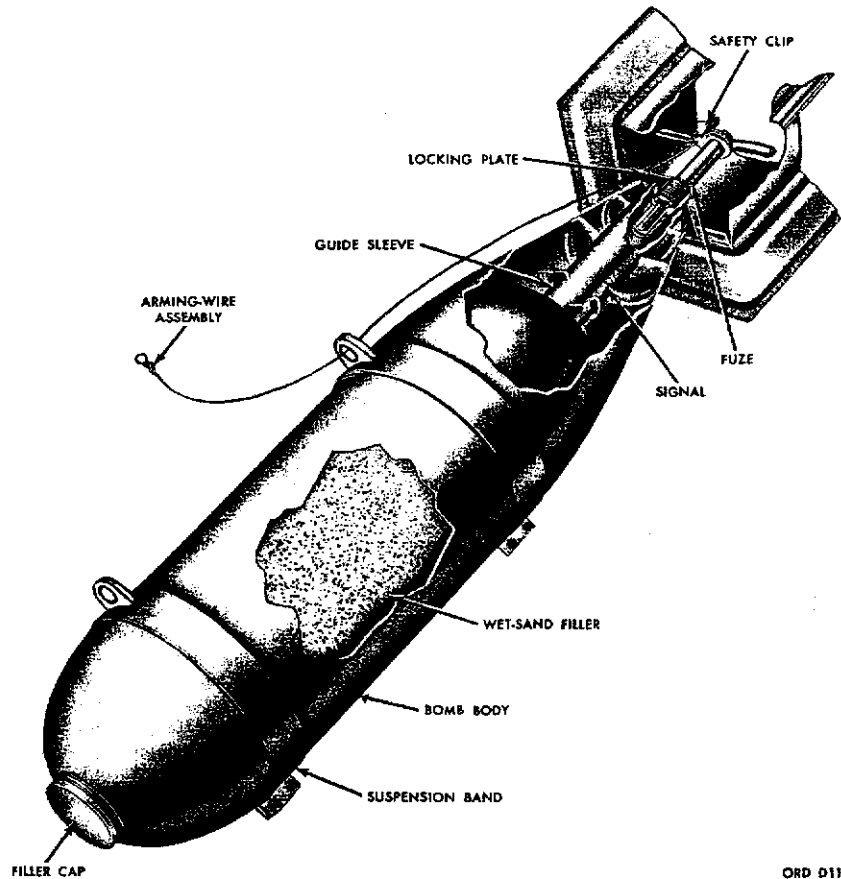
APPENDIX D  
TEXTS/MANUALS

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- D-1 WWII era practice bomb (B-27).
- D-2 Signal type used in practice bomb (B-27).



# BOMB, PRACTICE, 100-LBS, Mk 15 Mod 3



ORD D1167

*Description.* The Mk 15 Mod 3 Practice Bomb is a light-cased, cylindrical body with a threaded filling hole in its rounded nose. A box fin assembly consisting of four metal vanes attached to a cone is welded to the aft end of the body. The bomb has two metal suspension band assemblies (each consisting of a circular clamp, a suspension lug, and two cap screws) for tightening the band to the bomb. The bomb is used with the practice bomb signal, Mk7 Mod 0 and inert fuze Mk 247 Mod 0 both of which are secured to the aft of the bomb. Upon impact of the bomb with the target, the signal is detonated, producing a flash and a large puff of smoke. The bomb is filled with wet sand and when fully assembled weighs approximately 100 pounds

<b>Length of assembled bomb</b> .....	41.2 inches
<b>Diameter</b> .....	8.0 inches
<b>Fin Span</b> .....	11.24 inches
<b>Weight, assembled</b> .....	100 pounds
<b>Filler</b> .....	Sand, Wet sand, or water
<b>Signal</b> .....	Mk 7 Mod 0
<b>Color</b> .....	Black

**References:** TM9-1325-200, *Bombs and Bomb Components*, April 1966; NAVSEA OP 1664 Volume 2, *U.S. Explosive Ordnance*, February 1954

# BOMB, PRACTICE, 100-POUND, MK15

TM 9-1325-200/NAVWEPS OP 3530/TO 11-1-28, April 1966

2-52. Bomb, Practice: 100-Pound, MK15 Mods 2, 3 and 4

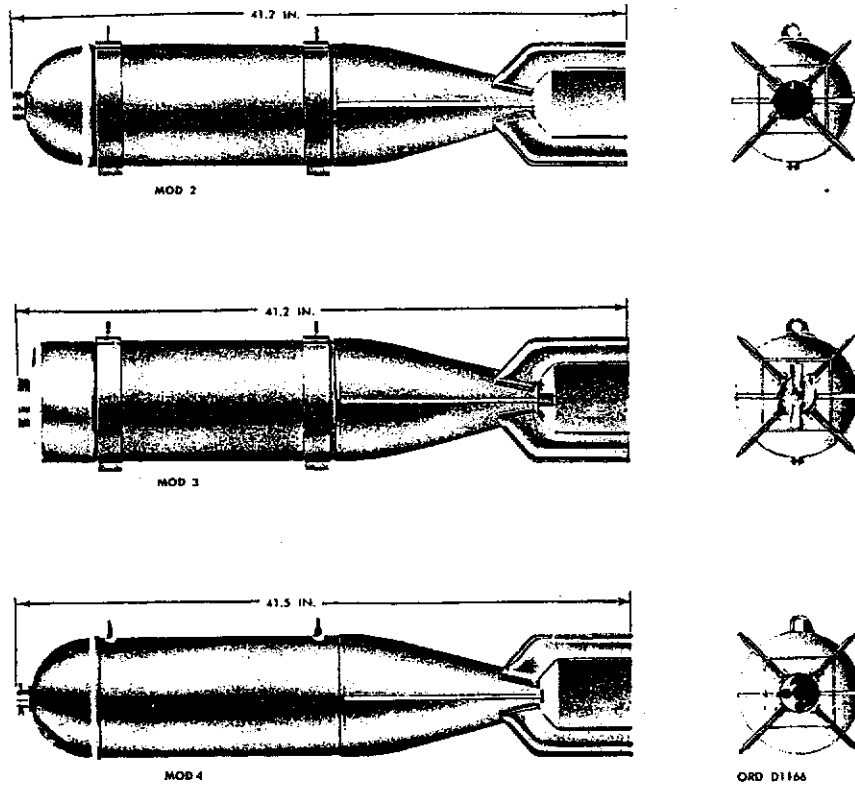


Figure 2-62. Bomb, practice: 100-pound, MK15 Mods 2, 3, and 4.

Table 2-50. Bomb, Practice: 100 pound, MK15 Mods 2, 3, and 4

Mark Mod	15 2	15 3	15 4
Length of Assembled bomb (in)...	41.2.....	41.2.....	41.5
Diameter of Body (in).....	8.0.....	8.0.....	8.0
Fin Span (in).....	11.24.....	11.24.....	11.24
Weight of Assembled Bomb (lb):			
Loaded with Wet Sand.....	100.0.....	100.0.....	97.0
Loaded with Water.....	56.0.....	67.0.....	60.0

Table 2-50. Bomb, Practice: 100 pound MK15 Mods 2, 3, and 4 - Continued

Mark Mod	15 2	15 3	15 4
Wet Sand Filler (lb).....	76.0.....	77.4.....	76.0
Water Filler (lb).....	39.0.....	40.0.....	39.0
Water Filler (gal).....	4.6.....	4.7.....	4.6
Signal.....	None.....	MK 7 Mod 0.....	MK 4 Mods 0,1,2,3,4
Fuze.....	None.....	MK 247 Mod 0.....	None
Firing-Pin Assembly.....	None.....	None.....	MK 1 Mod 0
Arming-Wire Assembly.....	MK 1 or AN-M6A2	MK 1 or AN-M6A2	No Arming Wire

a. *Description.* Practice bomb MK15 Mod 2 (fig. 2-62 and table 2-50) is identical to the Mod 3 except that it is not adapted for the use of a fuze and signal. It is filled with water or a mixture of sand and water (fig. 2-63) for spotting purposes. For training purposes, a small washer may be soldered to the nose of the bomb to simulate a fuze. The end of an arming wire (which is normally inserted in the fuze of service type bombs) is then secured to the washer. For armed releases, the washer is torn free of the bomb by the arming wire; for safe releases, the arming wire remains secured to the washer. When used against armored-deck target boats, it is filled with water and released from an altitude of less than 7,000 feet.

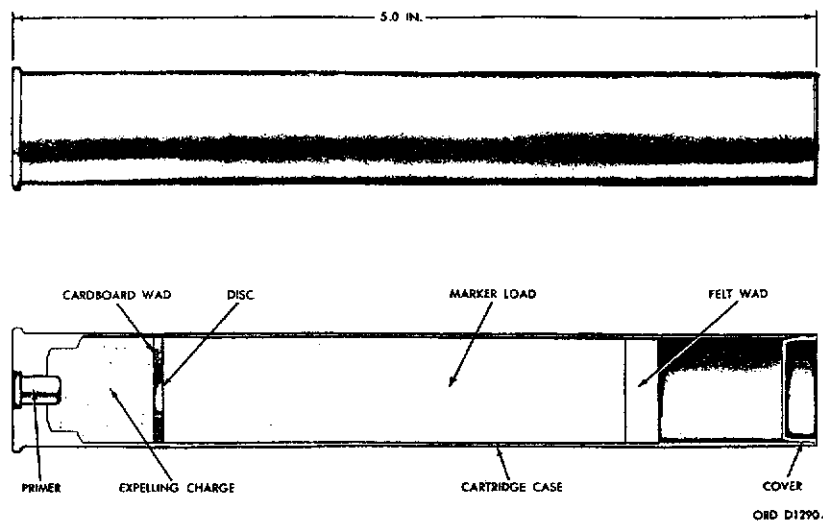
b. *Bomb, Practice: MK 15 Mod 3.* Practice bomb MK15 Mod 3 has a light cased, cylindrical body with a threaded filling hole in its rounded nose. A box-fin assembly consisting of four metal vanes attached to a cone is welded to the aft end of the body. The bomb has two metal suspension band assemblies (each consisting of a circular clamp, a suspension lug, and two cap screws) for tightening the band to the bomb. The bands may be adjusted for double suspension of the bomb by orienting to suit the rack or shackle to which the bomb is to be attached. A flat nose attachment that reduces ricochet of the bomb at entrance angles as low as 90 degrees is used during antisubmarine practice. The attachment is secured in place by a cap which threads onto the filling hose. The bomb is used with practice bomb signal MK7 Mod 0 and inert fuze MK247 Mod 0, both of which are secured to the aft end

of the bomb.

c. *Bomb, Practice, 100-pound: MK15 Mod 4.* The practice bomb MK15 Mod 4 is a light-cased, cylindrical bomb with a round nose and an integral box fin and cone. A flash tube, extending throughout its transverse axis, housed a pyrotechnic signal and firing-pin assembly. Two suspension lugs are welded to the bomb body 14 inches apart. A filling hole is located off center on the bomb nose and is sealed by a filler cap similar to those used on automobile gas tanks. The firing-pin assembly consists of two shallow metal cups, separated by a spacer which housed the firing pin. A cotter-pin through the nose end of the flash tube and two recesses in the lip of the forward cup locks the firing-pin assembly and signal in place.

d. *Functioning.* Upon impact of the bomb with the target, the signal is detonated, producing a flash and a large puff of smoke, which permits observation of the bombing accuracy.

# SIGNAL, PRACTICE BOMB, Mk 4 Mod 3 & 4



*Description.* Practice Bomb signals Mk 4 Mods 3 and 4 are essentially 10-gauge shotgun shells. They contain an expelling charge of smokeless powder and are primed with a commercial primer. A pyrotechnic or inert marker load is separated from the expelling charge by a disc and cardboard gun wad. Felt gun wads that are cemented to the cover close the end of the shell.

*Use.* The signals are used in either the miniature or the larger practice bombs. However, installed in the miniature practice bombs, the signals do not consistently produce a visible signal when dropped from an altitude of 10,000 feet or higher. Released from that height, the bomb enters the water or earth so quickly that the signal frequently does not have time to function.

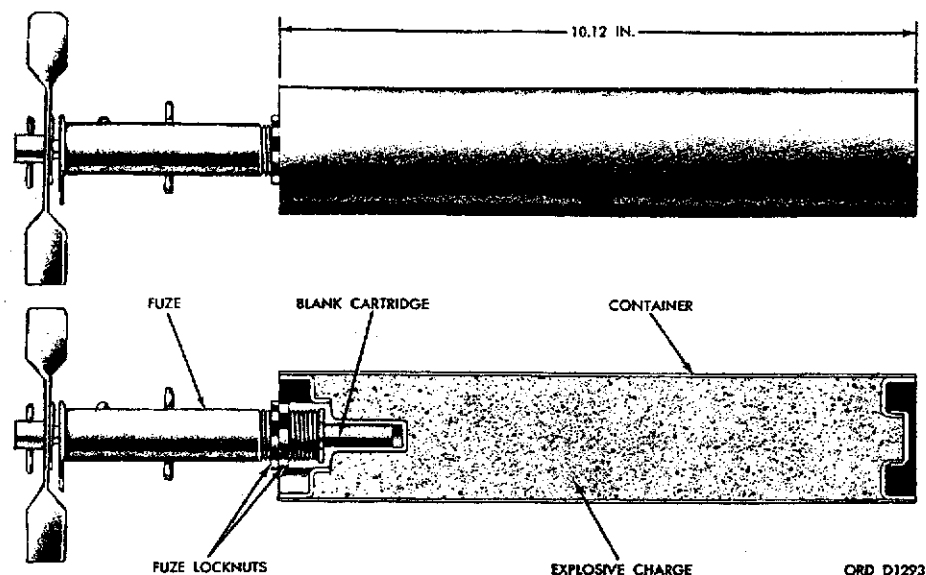
*Functioning.* When the practice bomb in which the signal is installed strikes water or the earth, impact causes the firing pin in the nose of the bomb to impinge upon the primer of the signal. The primer ignites the expelling charge, forcing the marker load out through an opening in the bomb. The resulting flash and puff of white smoke permit observation of bombing accuracy.

*Differences.* Signals Mk 4 Mod 0 was the first of this type developed. Mods 1 and 2 were procured later for issue to activities limited by environment to performing practice bombing in the vicinity of flammable areas. These signals contain inert materials that produce very little flash and are markedly inferior to the Mod 0. Mod 3 is similar to the Mod 0 but differs in that the cartridge case of the Mod 3 is extruded aluminum instead of paper; a primer mixture with improved storage characteristics has been used, a new pyrotechnic load has been incorporated. The Mod 4 signal is similar to the Mod 3 with the exception of an inert marker load of zinc oxide. In both Mods, the cover and cartridge case are cemented together; in Mod 3 the assembly also is staked in four equally spaced places.

<b>Length and diameter</b> .....	6.0 in by 0.85 in
<b>Expelling charge</b> .....	Smokeless powder
<b>Marker load</b> .....	Mod 3 Stabilized Red Phosphorous Mod 4 Zinc Oxide

**Reference:** TM 9-1325-200, *Bombs and Bomb Components*, April 1966

# SIGNAL, PRACTICE BOMB, Mk 7 Mod 0



*Description.* Practice bomb signal Mk 7 Mod 0 consists of a can of black powder fitted with inert fuze AN-Mk 247 Mod 0 and a blank .38-caliber cartridge used as a detonator. The signal is used with practice bombs for observation of bombing accuracy. The Mk 7 is generally the same as the Mk 6 signal except that the fuze is mounted off-center in the Mk 6 and its black-powder filling weighs about 1 pound more.

*Functioning.* Upon release of the bomb from the aircraft, the arming wire is withdrawn, permitting the fuze-arming vane to rotate and arm the signal. Upon impact, the firing pin in the fuze over-comes a creep spring and impinges upon the primer of the blank cartridge, which in turn, ignites the black-powder charge. The resulting explosion produces a flash of light, and a large puff of gray smoke.

Length.....	10.12 in
Diameter.....	2.0 in
Weight of assembled signal.....	2.5 lbs
Container Material.....	Steel
Explosive Charge.....	Black Powder, 1.0 lbs

Reference: TM 9-1325-200, *Bombs and Bomb Components*, April 1966

**ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR  
SALTON SEA BOMB TARGET (FBT 16) (#57)  
IMPERIAL COUNTY, CALIFORNIA  
PROJECT NUMBER J09CA018701**

**APPENDIX E**

**REPORTS/STUDIES**

APPENDIX E  
REPORTS/STUDIES

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- E-1 PAE (B-1).  
E-2 Wildlife of Concern (B-6).

**DEFENSE ENVIRONMENTAL RESTORATION PROGRAM  
FORMERLY USED DEFENSE SITES  
FINDINGS AND DETERMINATION OF ELIGIBILITY**

**SALTON SEA BOMB TARGET (FBT 16) (#57)  
IMPERIAL COUNTY, CALIFORNIA  
SITE NO. J09CA018700**

**FINDINGS OF FACT**

1. The available information indicates that the Eleventh Naval District acquired this 640-acre site (Section 15, Township 9 South, Range 11 East, San Bernardino Meridian) from the Imperial Irrigation District by Revocable Permit dated April 1943.
2. The Navy was granted use of this site for a high altitude and dive bombing practice target. The target was located in the Salton Sea and evidently was a floating, horizontal, pyramid-type structure.
3. Historical data indicates that this 640-acre site was recommended for discontinuance in 1946. No further information was available concerning disposal of this site. Currently, the site is owned by the Imperial Irrigation District, and is within the Salton Sea State Recreation Area. The water portion of the site is subject to moderate fishing.

**DETERMINATION**

Based on the foregoing Findings of Fact, this site has been determined to be formerly used by the Department of Defense. It is therefore eligible for the Defense Environmental Restoration Program - Formerly Used Defense Sites, established under 10 USC 2701, et seq.

12 Sep 94  
DATE

DEPitt COL  
for MILTON HUNTER  
Brigadier General, U.S. Army  
Commanding



**PROJECT SUMMARY SHEET**  
**FOR**  
**DERP-FUDS OEW PROJECT NO. J09CA018701**  
**SALTON SEA BOMB TARGET (FBT 16) (#57)**  
**SITE NO. J09CA018700**

**PROJECT DESCRIPTION:** During World War II, this site was used by the Eleventh Naval District as a bomb target for practice bombs. The site is located largely in open water (Salton Sea); approximately 20% of the site is located on vacant shore. The surface of the Salton Sea at this location is void of any structures and bares no evidence of former bomb target activity. That portion of the property located on land also bore no evidence of former DOD activity. The presence and condition of any ordnance below the water surface or buried by sand is not known; however, it is likely that any ordnance remaining at this location for the past 45 years has been impacted by the corrosive environment created by the relatively shallow, salt waters of the Salton Sea.

**PROJECT ELIGIBILITY:** This site was formerly used by the Eleventh Naval District. Any ordnance found would most likely be the result of past DOD activity.

**POLICY CONSIDERATION:** No policy considerations prevent the proposal of this project.

**PROPOSED PROJECT:** Recommend the Corps' Mandatory Center of Expertise (MCX) for OEW at Huntsville Division make a determination concerning further action.

**RAC FORM:** Attached.

**DISTRICT POC:** Request CEHND inform Mr. Jatin Desai at (213) 894-6266 when a determination is made regarding project status.

**SITE SURVEY SUMMARY SHEET**  
**FOR**  
**DERP-FUDS SITE NO. J09CA018700**  
**SALTON SEA BOMB TARGET (FBT 16) (#57)**  
**20 August 1993**

**SITE NAME:** SALTON SEA BOMB TARGET (FBT 16) (#57)

**LOCATION:** Salton Sea Bomb Target #57 is located in Imperial County, California. The majority of the site is located within the boundaries of the Salton Sea, an inland body of water approximately 35 miles long and 15 miles wide. The northeast corner of the site is located within the Salton Sea State Recreation Area, roughly 0.25 mile from California Highway 111.

**SITE HISTORY:** In 1943, the Eleventh Naval District acquired this site from the Imperial Irrigation District (by Revocable Permit). The site was acquired for high altitude and dive bombing target practice (using practice bombs); the target was evidently a floating, pyramid-type structure. Bomb Target #57 was recommended for discontinuance in 1946. According to historical information, site restoration included only the removal of the target by station labor. No other restoration was required. The current site owner is the Imperial Irrigation District. The northeast corner of the site is presently undeveloped desert land and is located within the Salton Sea State Recreation Area. The remaining portion of the site is under water and is used for moderate fishing. The surface of the site is void of any structures and bares no evidence of former DOD activity. Further, representatives of both the Imperial Irrigation District and the California Department of Fish and Game indicated that they have seen no evidence of former DOD activity.

**SITE VISIT:** The site was visited on May 10, 1993, by Hunter Butler of Science Applications International Corporation, San Diego, California.

**CATEGORY OF HAZARDS:** OEW

**PROJECT DESCRIPTION:** Recommend the MCX for OEW at Huntsville Division make a determination regarding further investigation at this site.

**AVAILABLE STUDIES AND REPORTS:** Historical information on 11th Naval District bomb targets was obtained from the National Archives office in Laguna Niguel, California. Land acquisition and ownership records were obtained from the Bureau of Land Management, El Centro, California, and the Imperial County Assessor's Office, El Centro California.

**DISTRICT POC:** Jatin Desai, Los Angeles District, (213) 894-6266



# United States Department of the Interior

## FISH AND WILDLIFE SERVICE

ECOLOGICAL SERVICES  
Carlsbad Field Office  
2730 Loker Avenue West  
Carlsbad, California 92008

January 26, 1994

Michael C. Stroud  
Manager, Natural Resource Branch  
Naval Facilities Engineering Command  
Environmental Planning and Natural Resources Management Division  
1220 Pacific Highway, Rm 231  
San Diego, CA 92132-5178

Attn: William Fisher

Re: Request for Candidate, Threatened, or Endangered Species for Salton Sea  
Test Base Closure, Imperial County, California (1-6-94-SP-61)

Dear Mr. Stroud:

This letter is in response to your letter requesting information on endangered, threatened, proposed, and candidate species, and proposed and listed critical habitats which may be present within the area of the above referenced project areas. The attached list of species fulfills the requirements of the Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act of 1973, as amended (Act).

Federal agencies have the responsibility to prepare a Biological Assessment if the project is a construction project which may require an Environmental Impact Statement. If a Biological Assessment is not required, the Federal agency still has the responsibility to review its proposed activities and determine whether the listed species may be affected.

During the assessment or review process the Federal agency or applicant may engage in planning efforts, but may not make any irreversible commitment of resources such as initiating work on the proposed project. Such a commitment could constitute a violation of section 7(a) of the Endangered Species Act. If a listed species may be affected, the Federal agency should request, in writing through our office, formal consultation pursuant to section 7 of the Act. Informal consultation may be used to exchange information and resolve conflicts with respect to listed species prior to a written request for formal consultation.

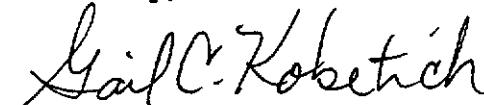
A Federal agency is required to confer with the Service when the agency determines that its action is likely to jeopardize the continued existence of any proposed species or result in the destruction or adverse modification of proposed critical habitat. Conferences are informal discussions between the Service and the Federal agency, designed to identify and resolve potential conflicts between an action and proposed species or proposed critical habitat at an early point in the decision making process. The Service makes recommendations, if any, on ways to minimize or avoid adverse effects of the action. These recommendations are advisory because the jeopardy prohibition of section 7(a)(2) does not apply until the species is listed or the proposed critical habitat is designated. If the proposed species is listed or the proposed habitat designated, the Federal agency determines whether or not formal consultation is required. The conference process fills the need to alert Federal agencies of possible steps that an agency might take at an early stage to adjust its actions to avoid jeopardizing a proposed species.

Candidate species are included for the purpose of notifying a project proponent in advance of possible proposals and listings which at some time in the future may have to be considered in your planning activities. If early evaluation of a project indicates that it is likely to adversely impact a candidate species, we recommend that the Federal agency seek technical assistance from this office in an effort to avoid or reduce impacts to such species.

We want to closely coordinate with the Federal agency and applicant during the preparation of the biological assessment. Our goal would be to provide technical assistance that identifies specific features that could be incorporated into the project to avoid adverse impacts to listed species.

Should you have any questions regarding the species list provided or your responsibilities under the Act, please contact Marjorie Nelson of my office at (619) 431-9440.

Sincerely,



Gail C. Kobetich  
Field Supervisor

Enclosure

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"Construction Project" means any 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.

FEDERAL THREATENED, ENDANGERED,  
 PROPOSED, AND CANDIDATE TAXA  
 THAT OCCUR OR ARE ANTICIPATED TO OCCUR  
 IN THE VICINITY OF THE SALTON SEA TEST BASE,  
 SAN DIEGO COUNTY, CALIFORNIA  
 (1-6-94-SP-61)

LISTED/PROPOSED SPECIES

Birds

American peregrine falcon	<u>Falco peregrinus anatum</u> ✓	E
Peregrine falcon	<u>Falco peregrinus</u> ✓	E
Artic peregrine falcon	<u>Falco peregrinus tundrius</u> ✓	T
Aleutian Canada goose	<u>Branta canadensis leucopareia</u> ✓	T
Yuma clapper rail	<u>Rallus longirostris yumanensis</u> ✓	T
Brown pelican	<u>Pelecanus occidentalis</u> ✓	E
Bald eagle	<u>Haliaeetus leucocephalus</u> ✓	E
California least tern	<u>Sterna antillarum browni</u> ✓	E

Reptiles

* Flat-tailed horned lizard	<u>Phrynosoma m<sup>c</sup>callii</u>	PT
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Fish

* Desert pupfish	<u>Cyprinodon macularius</u>	E, CH
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Plants

Triple-ribbed milk-vetch	<u>Astragalus tricarinatus</u>	PE
Pierson's milk-vetch	<u>Astragalus magdalenae piersonii</u>	PE

CANDIDATE SPECIES

Birds

Ferruginous hawk	<u>Buteo regalis</u>	2
Mountain plover	<u>Charadrius montanus</u>	2
Loggerhead shrike	<u>Lanius ludovicianus</u>	2
Western snowy plover (interior population)	<u>Charadrius alexandrinus nivosus</u>	2
Black tern	<u>Chlidonias niger</u>	2
Fulvous whistling duck	<u>Dendrocygna bicolor</u>	2
Black rail	<u>Laterallus jamaicensis</u>	2
Large-billed savannah sparrow	<u>Passerculus sandwichensis rostratus</u>	2
White-faced ibis	<u>Plegadis chihi</u>	2
Reddish egret	<u>Egretta rufescens</u>	2
Western least bittern	<u>Ixobrychus exilis hesperis</u>	2
Long-billed curlew	<u>Numenius americanus</u>	2
Tricolored blackbird	<u>Agelaius tricolor</u>	2

Mammals

Mexican long-tongued bat	<u>Choeronycteris mexicana</u>	2
California leaf-nosed bat	<u>Macrotis californicus</u>	2

(1-6-94-SP-61)

2

Occult little brown bat

Myotis lucifugus occultus

2

Spotted bat

Euderma maculatum

2

Greater western mastiff-bat

Eumops perotis californicus

2

Southwestern cave myotis

Myotis velifer brevis

2

### Reptiles

Colorado desert fringe-toed  
lizard

Uma notata notata

2

Barefoot gecko

Coleonyx switaki

2

### Amphibians

Arizona southwestern toad

Bufo microscaphus microscaphus

2

Yavapai (=lowland) leopard  
frog

Rana yavapaiensis

2

### Insects

Wandering skipper

Pseudocopaecodes eunus eunus

2

Cheeseweed moth lacewing

Oliarces clara

2

Brown-tassel trigonoscute  
weevil

Trigonoscute brunnotasselata

2

### Plants

Sand food

Pholisma sonorae

2

Alverson's pincushion  
cactus

Coryphantha vivipara alversonii

2

Flat-seeded spurge

Chamaesyce platysperma

2

Orcutt's aster

Xylorhiza orcuttii

2

Hoffman's cholla

Opuntia biglovii var. hoffmanii

2

Munz's cholla

Opuntia munzii

2

Desert sunflower

Helianthus niveus ssp.

2

tephrodes

California ditaxis

Ditaxis californica

2

Munz's hedgehog cactus

Echinocereus engelmannii var.

2

howei

(E) -Endangered

(T) -Threatened

(PE) -Proposed Endangered

(CH) -Critical Habitat

(1) -Category 1: Taxa for which the Fish and Wildlife Service has sufficient biological information to support a proposal to list as endangered or threatened.

(2) -Category 2: Taxa for which existing information indicates that listing may be warranted, but for which substantial biological information to support a proposed rule is lacking.

**ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR  
SALTON SEA BOMB TARGET (FBT 16) (#57)  
IMPERIAL COUNTY, CALIFORNIA  
PROJECT NUMBER J09CA018701**

**APPENDIX F**

**LETTERS/MEMORANDUMS/MISCELLANEOUS ITEMS**

APPENDIX F

LETTERS/MEMORANDUMS/MISCELLANEOUS ITEMS

Table of Contents

- F-1 Salton Sea aircraft operating area, 1942 (B-14).
- F-2 Floating type horizontal bomb targets, 1942 (B-15).
- F-3 Bombing targets in southern California sector, 1944 (B-16).
- F-4 Ordnance requirements, 1945 (B-17).
- F-5 Land and water target numbering, 1945 (B-18).
- F-6 Compilation of naval gunnery and bombing target areas, 1946 (B-20).
- F-7 Discontinuance of targets, 1946 (B-22).
- F-8 Navy transfer of Section 15 to Imperial Irrigation District, 1946 (B-24).



UNITED STATES PACIFIC FLEET

U. S. NAVAL AIR FORCES  
FLEET AIRCRAFT, WEST COAST

DECLASSIFIED  
E. O. 12356, Sec. 3.3

802097

0678

CONFIDENTIAL

Naval Air Station,  
San Diego, California,

OCT 8 - 1942

From: Commander Fleet Aircraft, West Coast.  
To: The Commandant, ELEVENTH Naval District.

Subject: Aircraft Operating Area, Vicinity of Salton  
Sea - Request for allocation of.

- Reference:
- (a) BuAer ltr. Aer-F-10-RO NI-9/NAI serial 081500, dated December 18, 1941. ✓ NI-9 (Restr.)
  - (b) Comairsofor ltr. A4-2/Fl1/NI, serial 1031, dated January 6, 1942. ✓ " "
  - (c) Comairsofor comf. serial 0259 of Feb. 22, 1942, with C.O. HAS SD 1st end. of Oct. 1, 1942, and Com 11 2nd end. of Oct. 2, 1942. ✓ not retained in Plane
  - (d) Com 11 ltr. ND11, NI-9 (A7-0b)(W-600) of Oct. 1, 1942. ✓ NI-9 (SC)  
✓ H-9 (Restr.)  
canceled and

Enclosure: (A) Sketch of proposed operating area.

1. In compliance with the second endorsement of reference (c) the subject request is resubmitted herewith. During the time interval between the submission of reference (c) and its return to this office, the need for the proposed operating area has increased, due to the expanded activity of units temporarily based in this locality. The area as requested in reference (c) is still desired; in addition, the necessity for extending this area to the west has become evident. Accordingly, in order to provide adequate operating space for units now conducting training at Salton Sea and in the area immediately to the westward, and for units which will base there in the immediate future, it is requested that the area herein described be designated as an aircraft operating area, and that it be reserved for the exclusive use of Naval and Marine aviation units, subject to assignment by Commander Fleet Aircraft, West Coast.

Area bounded by the following coordinates: (see enclosure (A)).

- (a) Latitude 33° 17' 00" N. ✓
- Longitude 116° 26' 00" W. ✓

UNITED STATES PACIFIC FLEET

U. S. NAVAL AIR FORCES

FLEET AIRCRAFT, WEST COAST

DECLASSIFIED  
E. O. 12356, Sec. 3.3

0678

OCT 8 - 1942

~~CONFIDENTIAL~~

Subject: Aircraft Operating Area, Vicinity of San  
Sea - Request for allocation of.

- (b) Latitude 33° 22' 00" N. ✓  
Longitude 116° 22' 40" W. 116° 23'
- (c) Latitude 33° 27' 00" N. ✓  
Longitude 116° 10' 00" W. ✓
- (d) Latitude 33° 46' 15" N. 33° 40'  
Longitude 115° 54' 15" W. 115° 54'
- (e) Latitude 33° 18' 30" N. 33° 31' 45"  
Longitude 115° 26' 15" W. 115° 43'
- (f) Latitude 33° 01' 45" N.  
Longitude 115° 44' 45" W.
- (g) Latitude 32° 55' 00" N.  
Longitude 115° 41' 15" W.
- (h) Latitude 32° 19' 00" N.  
Longitude 116° 00' 40" W.

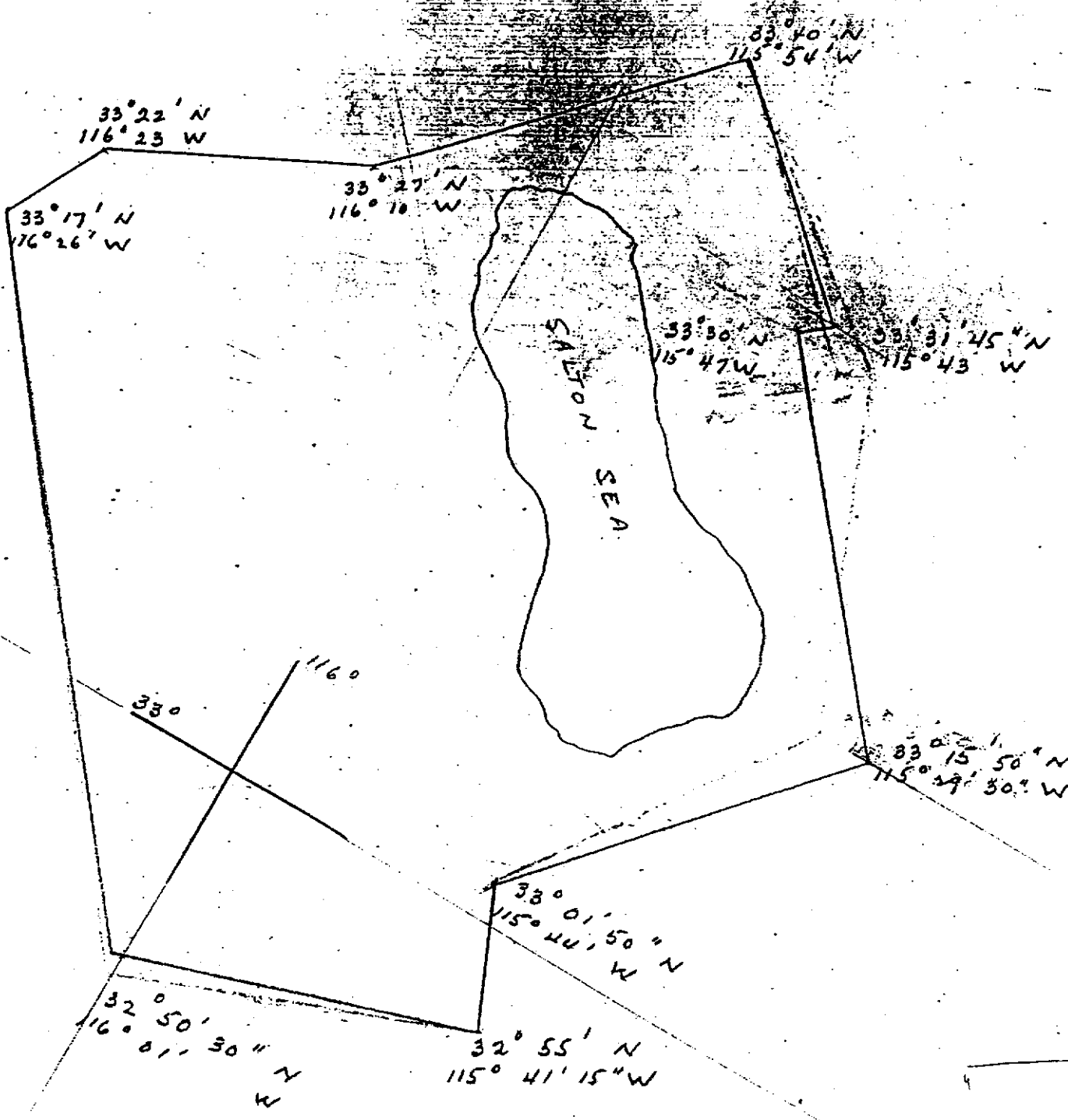
Although the area enclosed by the above listed coordinates includes some populated areas, railroad rights of way, etc., it is only desired that the airspace be exclusively reserved to Naval and Marine aviation use. Subject to approval of the basic request, Commander Fleet Aircraft, West Coast will promulgate such bombing and gunnery safety precautions as may be required and will insure that there is no infringement upon existing rights of way.

2. This request is in accordance with the principles outlined in reference (a) which states that in consideration of the complications introduced by extensive training activities in the vicinity of vital and heavily defended areas, it is desirable to conduct as much of the San Diego area operational tactics as is possible beyond the limits of the probable combat areas of the Air Force Combat Command.

- 2 -

see green sheet for page 3.

F-1



8 CORRECTED IN ~~FILE~~

IATCB MEETING

# 252 3/31/43

F41  
3976

UNITED STATES PACIFIC FLEET  
AIR FORCE  
FLEET AIR, WEST COAST

Naval Air Station  
San Diego, California,

December 5, 1942.

From: Commander Fleet Air, West Coast.  
To : Commandant, ELEVENTH Naval District.

Subject: Floating Type Horizontal Bombing Targets.

1. It is requested that the five (5) floating type horizontal bombing targets located at the Section Base, San Diego, be assigned to the Naval Air Station, San Diego, California, for installation in the Salton Sea. These targets are requested for immediate location in the Salton Sea and are in addition to the three piling type targets and the skip-bombing target previously requested.

2. The five (5) subject targets were built approximately two and one-half years ago and have not been used to date. Arrangements for transportation and installation of these targets will be made with Naval Air Station, San Diego, California.

/s/ O. A. POWNALL  
C. A. POWNALL

Copy to:  
Comdt. Naval Air Center.  
NAS, San Diego.

ACC/F41-10  
A2-11(wt)  
Serial: 98

AIRCRAFT  
SOUTHERN CALIFORNIA SECTOR  
WESTERN SEA FRONTIER

24 August, 1944

Eleventh Naval District  
San Diego, California

AIRCRAFT SOUTHERN CALIFORNIA SECTOR, WESTERN SEA FRONTIER  
CIRCULAR LETTER NUMBER 20-44

From: Commander Aircraft, Southern California Sector, Western  
Sea Frontier.  
To : AIRCRAFT, Southern California Sector, Western Sea Frontier.  
Subj: Bombing Targets in Southern California Sector, Western Sea  
Frontier.

1. Enclosure (1) contains the position and description of all bombing targets in the Southern California Sector of the Western Sea Frontier, together with a statement of the type of bombing runs permitted and the type of ordnance permitted.
2. Certain bombing targets listed in enclosure (1) are not in commission as yet. A notam will be issued when such targets are commissioned.
3. The targets listed in enclosure (1) shall be used solely by the units to whom they are assigned by Joint Operations Center, San Diego (Naval Air Control Center). The unit to whom the target is assigned, however, may permit another unit to use such target. When such permission is given, Air Control Center shall be advised by teletype.
4. Where areas, targets, and landing fields are assigned by Joint Operations Center, San Diego, to more than one unit, the senior naval aviator of the units assigned the same areas, targets and landing fields shall coordinate the schedules except in cases where the assignments specify the hours a unit is to use such area, target or landing field.
5. It is frequently necessary to conduct air and surface firing and other surface operations in the same areas. All units must exercise caution. Aerial gunnery above an overcast is not permitted.
6. No dummy runs are to be made on any target declared closed.
7. Water filled bombs over 100 pounds may not be used on water bombing targets or land ship bombing targets.
8. Units desiring to drop live bombs must notify Joint Operations Center, San Diego at least 24 hours in advance.
9. The following targets can be illuminated: Otay on request to Naval Auxiliary Air Station, Brown Field, all Salton Sea targets on request to-

NAME	POSITION	DESCRIPTION	TYPE OF BOMBING RUN	TYPE OF ORDNANCE
FBT 15 ✓	33-27-00 115-52-30	Pyramid	High Altitude and Dive Bombing	Practice Bombs
FBT 16 ✓	33-23-30 115-48-15	Pyramid	High Altitude and Dive Bombing	Practice Bombs
FBT 17 ✓	33-20-15 115-45-00	Pyramid	High Altitude and Dive Bombing	Practice Bombs
FBT 18 ✓	33-17-30 115-40-30	Pyramid Radar-rigged	Low-level	Practice Bombs
FBT 19 ✓	33-15-15 115-37-00	Radar-rigged Pyramid	Low-level	Practice Bombs
<u>SAN CLEMENTE</u>				
LBT 21	32-53-23 118-29-13	Concentric circles and rectangle	Dive Bombing	Practice Bombs
WBT 5	32-54-55 118-27-42	Pyramid	High Altitude and Dive Bombing	Practice Bombs
Castle Rock BT	33-02-10 118-36-45	Rock	High Altitude and Dive Bombing	Practice Bombs and Strafe
BT 6	32-49-57 118-21-17	Pyramid	High Altitude and Dive Bombing	Practice Bombs
Trabuco BT	33-37-45 117-36-00	X east target a destroyer masthead Y center target a circle Z west target a circle	Dive and Slide Bombing	Five pound practice bombs only
WBT 1	32-27-00 117-10-30	Radar-rigged Pyramid	Low-level	Practice Bombs
WBT 2	32-22-45 117-09-18	Radar-rigged	Low-level	Practice Bombs
WBT 3	32-17-34 117-09-30	Pyramid	Low-level	Practice Bombs
Winona BT 1	33-13-30 115-58-15	Concentric Circles	Low-level	Rockets
Winona BT 2	33-13-30 116-00-30	Concentric Circles	Low-level	Rockets
Wilson Rock BT	34-06-30 120-24-12	Rock	High Altitude and Dive Bombing	Practice and live Bombs and Strafe

side  
ice

Reproduced from  
Pacific Southwest Region

F-3

12 FEB 1945

SPEEDLETTER

IN REPLY REFER TO:

Mn2d

NA 11/F 411

27A 11/F 41

X  
A:6 (110)

TO: NAB 11TH N.D.  
(ATTN: ORDNANCE OFFICER)

- Is for urgent messages not requiring telegraph transmission.
  - Is expedited upon delivery.
  - Is designed for Navy-wide use without charge (1 September 1943, Navy Department Bulletin).
  - Does not clear through communication office.
  - Permits dispatch in informal language.
  - May be sent (1) air mail and/or special delivery (2) with enclosures, (3) to nonnaval activities (4) in window envelope.
  - Provides space for inserting "From" above "To" if activity's correspondence format so requires.
  - Available upon request from Publications Division, Administrative Office, Navy Department, Washington 25, D. C., in pads of sets, each set comprised of 1 white, 1 yellow, 1 pink, 1 green.
- Additional pads of 100 available in white (NAVEXOS-312A, Rev. 11-44), and, if needed, in pink (NAVEXOS-312B) and green (NAVEXOS-312C).

INDICATE HERE IF CLASSIFIED

**RESTRICTED**

YOUR SERIAL 1105 DATED 20 JANUARY X FOLLOWING SHIPMENTS BEING MADE:

<u>AMSO</u>	<u>MATERIAL</u>	<u>AMOUNT</u>	<u>CONSIGNOR</u>
503697	4-1/2-LB. M.P.B., AN-MK43-1	5,000	NAD CRANE
503698	500-LB. W.S.F.B.; MK21	500	NAD HAWTHORNE

NO OTHER PRACTICE BOMBS AVAILABLE FROM DEPOT STOCKS X MONTHLY SHIPMENT FROM PRODUCTION OF PRACTICE BOMBS AND SIGNALS TO 11TH N.D. ARE AS FOLLOWS:

<u>BOBO</u>	<u>MATERIAL</u>	<u>AMOUNT</u>	<u>CONSIGNEE</u>
141180	3-LB. M.P.B. AN-MK23-1	20,000	NAD FALL BROOK
141163	4-1/2-LB. M.P.B., AN-MK43-1	9,000	NAD FALL BROOK
141162	4-1/2-LB. M.P.B., AN-MK43-1	6,000	NAD FALL BROOK
141131	13-LB. M.P.B., MK19-1	5,000	NAD FALL BROOK
142609	100-LB. W.S.F.B.; MK15-2	6,000	NAD FALL BROOK
142608	100-LB. W.S.F.B., MK15-2	3,000	NAS SAN DIEGO
122801	M.P.B. SIGNAL, AN-MK4	50,000	NAD FALL BROOK
148821	M.P.B. SIGNAL, AN-MK5	8,000	NAD FALL BROOK

LIMITED UPWARD REVISION OF THESE SHIPMENTS FROM PRODUCTION WILL BE POSSIBLE WITHIN SIXTY DAYS X ADVISE REVISIONS NECESSARY XX

FHP:1km

1600

COPIES TO COM 11 NAD FALL BROOK NAS SAN DIEGO	SIGNATURE AND TITLE <b>G. F. HUSSEY, JR.</b> J. W. HUSSEY By direction
	SENDER'S MAILING ADDRESS (INCLUDE OFFICE SYMBOL, IF DESIRED) (Mn2d) THE CHIEF OF THE BUREAU OF ORDNANCE NAVY DEPARTMENT WASHINGTON 25, D.C.
ATTENTION ADDRESSEE: Speedletter reply should be addressed as here shown, to insure prompt routing of reply.	

HEADQUARTERS  
 COMNAVFORC  
 ELEVENTH NAVAL DISTRICT

NAB11/QT  
 (950125)(mc)

23 April 1945

NAB-11TH N. D. ORDER NO. 4

To: Commanding Officers and Officers-in-Charge, All Units  
 of the Naval Air Bases, Eleventh Naval District.

Subj: Land and Water Targets - Numbering of.

1. In the past, all targets in the Eleventh Naval District, used for aircraft training, have been designated by name or number and have caused some confusion in assignment.
2. In order to simplify the identity of targets, all land and water targets will bear a series of numbers, the series indicating the location or type of target.
3. Listed below are the old names and numbers of the targets and the new numbers which are being assigned.
4. Water and Off-Coast targets will bear numbers from 1 to 30.

Present Name of Target

New Number

WBT #1	1
WBT #2	2
WBT #3	3
WBT A	4
WBT B	5
WBT C	6
WBT D	7
WBT E	8
WBT F	9
WBT G	10
Wilson Rock	11
Begg Rock	12
Castle Rock	13
San Clemente #5	14
San Clemente #6	15
San Clemente #21	16
Catalina	17
Cortez Bank	18
Glide Angle Target	19

Numbers 20 to 30 available for assignment to new targets.



W 511/001  
(200000) (mc)

Land and Water Targets - Numbering of

5. Land targets near the coastline will bear numbers from 30 to 50.

<u>Present Name of Target</u>	<u>New Number</u>
Lake Hodges	30
Miramar	31
Otay	32
Temecula #1	33
Temecula #2	34
Trabuco X	35
Trabuco Y	36
Trabuco Z	37

Numbers 38 to 50 available for assignment to new targets.

6. Targets in the desert area other than Rocket Targets will bear numbers from 50 to 90.

<u>Present Name of Target</u>	<u>New Number</u>
Salton Sea #9	50
Salton Sea #10	51
Salton Sea #11	52
Salton Sea #12	53
Salton Sea #13	54
Salton Sea #14	55
Salton Sea #15	56
Salton Sea #16	57
Salton Sea #17	58
Salton Sea #18	59
Salton Sea #19	60
Salton Sea Skip Bombing Target	61
Home Springs	62
Borego Hotel	63
Borego Wash	64
Clark's Dry Lake	65
Cocillio	66
San Felipe	67
Holtville #1	68
Ogilby	69
23 Palms Skip Target	70
Mojave #2	71
Mojave #3	72
Mojave #4	73
Mojave #5	74
Mojave #6	75
Mojave Mobile	76
Coyote Walls	77

Numbers from 78 to 90 avail:

**F-5**

assignment to new targets.

(S) (U) (C)

April 1945

Land and Water Targets - Numbering of

Rocket targets, regardless of location will bear numbers from 90 on.

<u>Present Name of Target</u>	<u>New Number</u>
Wanona #1	90
Wanona #2	91
El Centro #1	92
El Centro #2	93
Holtville 1R	94
Holtville 2R	95
King #1	96
King #2	97
29 Palms #1	98
29 Palms #2	99
29 Palms #3	100
Mojave 1	101
Trabuco Rocket	102

Numbers from 103 on available for assignment to new rocket targets.

*A. D. Bernhardt*

A. D. BERNHARD  
Commander, Naval Air Bases,  
Eleventh Naval District.

- Copies to:
- ComEleven (30)
  - ComAirWestCoast (150)
  - Deputy Comdr., NAB-11th N.D. (100)
  - MarAirWestCoast (100)
  - Naval Air Control Center (250)

PT

NAVY DEPARTMENT  
OFFICE OF CHIEF OF NAVAL OPERATIONS  
WASHINGTON 25, D.C.

4 November 1946

From: Chief of Naval Operations.  
To: Distribution List.

NAC 11/F41-10

Subject: Compilation of Naval Air Targets, Gunnery and Bombing Areas.

Enclosure: (A) Compilation of Naval Air Targets, Gunnery and Bombing Areas.

1. Enclosure (A) is a compilation of information concerning targets, gunnery and bombing areas utilized by Naval Aviation. This table is arranged in order of Naval Districts and Functional Training Commands and is furnished for planning purposes only. Action should be initiated only on the basis of specific directives and not on this letter.

2. This is the first compilation of this type and it is recognized that it is incomplete in many respects. Cognizant Commands are requested to furnish additional information and corrections as necessary. Revisions to enclosure (A) will be made at such times as changes require.

V. H. SCHALFFER  
By direction.

131014

NAVY DEPARTMENT  
OFFICE OF THE CHIEF OF NAVAL OPERATIONS  
WASHINGTON, D. C.

COMPILATION OF NAVAL AIR TARGETS, GUNNERY AND BOMBING AREAS

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RUJAVE

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10th NAVAL DISTRICT -- POSTWAR CONVERT AND TARGET AREA REQUIREMENTS (CONT'D)

NAME	NO.	LATITUDE	LONGITUDE	DESCRIPTION	USE	REMARKS	SUPPORTING ACTIVITY	SHIPMENT STATUS	LEASE NO.	EXPIRATION DATE
Culebra Impact Area		18°20'00"	68°19'00"	SW Point of Culebra Island and Luis Pons Cay.	Live bombing and rockets.		NAS San Juan	Not owned.		
Aerial Gunnery Range		11°00'00" 10°50'00"	61°28'00" 61°00'00"		Aerial Gunnery		NAS Trinidad			
Aerial Gunnery Range		10°55'00" 10°17'00"	61°34'00" 61°48'00"		Aerial Gunnery		NAS Trinidad			
Practice Torpedo Firing Area		10°20'00" 10°23'00"	61°38'00" 62°07'00"		Practice Torpedo Firing		NAS Trinidad			
Tow Target Bombing Area		10°34'00" 10°27'00"	61°51'00" 61°54'00"		Tow Target Bombing		NAS Trinidad			
Offshore Aerial Torpedo Range		11°20'00" 12°54'00" 12°48'00" 10°46'00"	62°02'00" 61°52'00" 62°09'00" 61°58'00"		Aerial Torpedo Range		NAS Trinidad			
Strafing and Rocket Target Area		11°00'00" 10°50'00"	61°38'00" 61°00'00"		Strafing and rocket target.		NAS Trinidad			
Stationary Bombing Targets 1,2,3		10°38'00" 10°28'00" 10°24'00"	61°30'00" 61°29'00" 61°30'00"		Stationary Bombing Targets.		NAS Trinidad			
Quantanao Operating Area		Extensive Fleet and aircraft operations being conducted in area bounded by the following coordinates: North: Cuban Shoreline East: Hispaniola Shoreline South: Latitude 18°30'00" West: Longitude 77°00'00"					NAS Quantanao			
Bombing and Radar Target		18°57'00"	78°11'00"	A circle of 3 mile radius.	Bombing and Radar Targets.		NAS Quantanao			
Matanzas Bay		18°36'00"	78°12'00"	A circle of 3 mile radius.	Water Target.		NAS Quantanao			
Culebra Air Support Target		18°20'00"	68°19'00"	A circle of 3 mile radius.			NAS Quantanao			

11th NAVAL DISTRICT -- POSTWAR CONVERT AND TARGET AREA REQUIREMENTS

1		22°27'00"	117°10'30"	Floating Pyramid-Radar Rigged	Dive-Glide, low level bombing or practice miniature bombs.		11th Naval District	Off shore		Permit from Mexico
2		22°22'45"	117°09'15"	Floating Pyramid-Radar Rigged	Dive-Glide, low level bombing or practice miniature bombs.		11th Naval District	Off shore		Permit from Mexico
3		22°17'34"	117°08'30"	Floating Pyramid-Radar Rigged	Dive-Glide, low level bombing or practice miniature bombs.		11th Naval District	Off shore		Permit from Mexico
4		22°22'10"	117°08'30"	Floating Pyramid-Radar Rigged	Dive-Glide, low level bombing or practice miniature bombs.		11th Naval District	Off shore		
5		22°06'40"	117°10'30"	Floating Pyramid-Radar Rigged	Low level A.G.W. Miniature bombs.		11th Naval District	Off shore		

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11TH NAVAL DISTRICT -- POSTWAR SUPPORT AND TARGET AREA REQUIREMENTS (CONT'D)

NAME	NO	LATITUDE	LONGITUDE	DESCRIPTION	USE	REMARKS	SUPPORTING ACTIVITY	OWNERSHIP STATUS	LEASE NO	EXPIRATION DATE
	6	33°26'00"	117°41'30"	Floating Pyramid Radar Rigged	Low level bombing or miniature bombs.		11th Naval District	Gov. owned		
Alison Peak	11	34°08'30"	120°24'12"	Black Rock 19' High	Dive, Glide, Angle, Live Bombing Rocket Firing High & Low level.		11th Naval District	Gov. owned		
Best Peak	12	33°21'46"	118°41'40"	Unpainted rock 18' High	Low Alt. Bombing Prod./Min. Bombs.		11th Naval District	Gov. owned		
Castle Peak	13	33°02'04"	116°36'47"	Unpainted Islet 72' High	High Alt. Dive Bombing, Strafing & Rocket Firing Pods, Min. & Live Bombs.		11th Naval District	Gov. owned		
	21	32°58'25"	117°07'28"	Concentric circles 50'-100' and 200' Radial with Take Stations.	Dive & glide bombing		MCAS Miramar	USN owned		
Miramar	21	32°54'54"	117°07'19"	Concentric circles 50'-100' and 200' Radial.	Dive & glide bombing controlled practice and min. bombs.		MCAS Miramar	USN owned		
Gray Is.	24	32°23'36"	116°36'21"	3 Concentric circles 50'-100' and 200' Radial & Simulated Destroyer Deck, Glide Angle Targets.	Controlled practice and min. bombs; dive, glide angle calibration.		MCAS Brown Field	USN owned		
Trabuco	26	33°27'34"	117°36'25"	Simulated Destroyer Deck	Dive bombing.		MCAS El Toro (25-27)	Lease		
Trabuco	26	33°28'30"	117°36'39"	Concentric Circles 50'-100' and 200' Radial.	Dive bombing.		MCAS El Toro	Lease	Buy(2) 27241	30 June 1966
Trabuco	27	33°26'16"	117°37'21"	Concentric Circles 50'-100' and 200' Radial.	Dive bombing.		MCAS El Toro	Lease		
Cidras Dry Lake	45	34°20'07"	116°16'00"	3 concentric circles 50'-100' and 200' Radial Simulated Sub. Deck, 12' wide x 178' long.	High altitude & Dive bombing Strafer and Subcarrier Rocket.		NAS El Centro			
Cecilie Dry Lake	46	33°08'06"	116°08'10"	Concentric circles 50'-100' and 200' Radial.	Horizontal, Glide or dive bombing.		NAS El Centro	USN owned.		
Cecilie Dry Lake	46	33°08'00"	116°08'45"	Mobile Armored Target.	Mark 5 or Mark 25 miniature bombing on mobile targets.		NAS El Centro	USN owned.		
Anteville	49	32°54'48"	116°12'30"	Concentric circles 50'-100' and 200' Radial.	Dive bombing and strafing.	ASST	NAS El Centro	40046- USN owned, MCAS - leased State of Calif. Permit.	NOY(2) 24194	Permit - 30 June
	71	See Mojave --	Area "C"	Gunnery range.			NAS Mojave			
	72	See Mojave --	Area "C"	Gunnery range.			NAS Mojave			
	73	See Mojave --	Area "C"	Gunnery range			NAS Mojave			

\* Denotes IATCM Meeting at which Air Space Reservations Approved.

11TH NAVAL DISTRICT -- POSTWAR CONVENT AND SAFETY AREA REQUIREMENTS (CONT'D)

NAME	NO.	LATITUDE	LONGITUDE	DESCRIPTION	USE	REMARKS	SUPPORTING ACTIVITY	OWNERSHIP STATUS	LEASE NO.	EXPIRATION DATE
	74	See Mojave	Area "C"	Gunnery Range			HAS Mojave			
	75	See Mojave	Area "C"	Gunnery Range			HAS Mojave			
	76	See Mojave	Area "C"	Gunnery Range			HAS Mojave			
	79	34°39'32"	118°51'20"	3 Concentric Circles 80-100' 150'	High Alt. Dive Bombing	Miniature Practice Bombs.	HAS El Centro	US Govt. owned Dept. Int. Permit.		
El Centro #1	80	34°38'00"	118°41'00"	2 Concentric circles 75'-150'	Rocket Firing.	4073*	HAS El Centro	See Permits.		
El Centro #2	81	34°36'50"	118°41'00"	2 Concentric Circles 75'-150'	Rocket Firing.	4073*	HAS El Centro	See Permits.		
Melville	84	34°35'10"	118°16'38"	2 Concentric Circles 75'-150'	Rocket Firing	4028*	HAS El Centro	See Permits.		
Melville	86	34°01'54"	118°16'48"	2 Concentric Circles 75'-150'	Rocket Firing	4040*	HAS El Centro	See Permits.		
Mojave	101	34°08'30"	118°00'40"	2 Concentric Circles 75'-150'	Rocket Firing		HAS Mojave	In Mojave Area "C"		
Trabuco	102	34°28'11"	117°34'30"	2 Concentric Circles 75'-150'	Rocket Firing		MCAS El Toro	Lease	NOY(2) 27261	
Coyote Hills	109	34°25'04"	118°22'12"	2 Concentric Circles 75'-150'	Tiny Tim Rocket Firing		HAS El Centro	Permit for U.S. Dept. of Int.		
Coyote Hills	102A	34°51'10"	118°34'31"	2 Concentric Circles 75'-150'	Tiny Tim Rocket Firing		HAS El Centro	NOY Sec. 19 Lease not executed. See Permits.		
Labadegoo	106	34°00'48"	117°04'48"	2 Concentric Circles 75'-150'	SOAR Rockets Only.		MCAS Miramar	Lease	NOY(2) 26987	30 June 1946
Trabuco	104	34°37'00"	117°37'00"	2 Concentric Circles 75'-150'	Rocket Firing		MCAS El Toro	Lease	NOY(2) 27261	30 June 1946
Chico Lake Gunnery Range, also known as Dunlap Gunnery Range.		35°21'00" 35°22'00" 35°00'00" 35°08'00"	118°48'00" 118°38'00" 118°04'00" 114°54'00"	Air to Air Gunnery Range	Aerial Gunnery	466,468* 4657*		Taken over under the War Relocation Act, also, permits and leases. 280,248 acres-US gov't-owned. 10,100 acres-State of Calif. Permit 2,800 acres - Leased		Lease expires 30 June 1946

\* Decision IATCB Meeting at which Air Space Reservations Approved.

11TH NAVAL DISTRICT - POSTWAR GUNNERY AND TARGET AREA REQUIREMENTS (CONT'D)

NAME	NO	LATITUDE	LONGITUDE	DESCRIPTION	USE	REMARKS	SUPPORTING ACTIVITY	OWNERSHIP STATUS	LEASE NO.	EXPIRATION DATE
San Clemente Impact Area (S. Clem. Is.)		All of that portion of S. Clem. Is. S.E. of		Air support Gunnery	Air support.			Very good.		
		32°22'40"	118°30'30"							
		32°24'40"	118°28'00"	Approximately 74 miles.						
Carrizo Impact Area		22°24'44"	116°04'53"	Air support gunnery area	Bombing, Dive and Horizontal Strafing, Rocket, Radar.	#607*	Use permits Dept. of Inter. & State of Calif.			
		22°26'52"	116°03'00"							
		22°20'24"	116°04'38"							
		22°20'34"	116°03'48"							
Torpedo Dropping Area		32°28'00"	117°23'00"	Ocean Area	Torpedo Dropping.		Off shore.			
		32°28'00"	118°23'00"							
		32°20'00"	117°23'00"							
		32°20'00"	117°16'00"							
SE Ocean Aerial Gunnery		32°10'00"	117°11'00"	Aerial Gunnery Area	Aerial Gunnery Exercises		Off shore area off of Mexican Coast.			
		31°51'00"	117°11'00"							
		31°51'00"	117°11'00"							
		31°28'00"	117°21'00"							
		31°21'00"	117°21'00"							
		29°28'00"	117°21'00"							
		29°28'00"	117°21'00"							
		29°28'00"	118°29'00"							
		29°28'00"	118°29'00"							
		32°10'00"	117°11'00"							
Mojave Gunnery Range "B"		36°01'00"	117°19'00"	Aerial Danger Area	Testing & Evaluation of Pilotless Aircraft. Used jointly by NATS Inyokern NAS Mojave and Army Units.	#742*	NAS Mojave	Lease-permit		
		36°01'00"	118°22'00"							
		36°28'00"	116°28'00"							
		36°28'00"	117°00'00"							
		36°09'00"	117°00'00"							
		36°09'00"	119°19'00"							
Mojave Area "C" Gunnery Range		36°07'47"	117°26'30"	Testing & Evaluation of Pilotless Aircraft.	Bombing Target Training and Danger Area.	#742*	NAS Mojave	Lease-permit		
		36°01'00"	117°26'30"							
		36°01'00"	118°08'00"							
		36°03'28"	118°10'48"							
		36°07'47"	118°08'18"							
S. Ocean Aerial Gunnery Area		32°40'00"	117°30'00"	Ocean Area, Impact & Danger.	Air to Air Gunnery.		Off shore.			
		32°40'00"	118°46'00"							
		33°00'00"	118°46'00"							
		33°30'00"	118°02'00"							
		33°08'00"	117°26'00"							
S. Ocean Aerial Gunnery Area		32°30'00"	118°30'00"	Ocean, Impact & Danger Area.	Air to Air Gunnery.		Off shore.			
		32°30'00"	117°33'00"							
		31°30'00"	117°33'00"							
		31°30'00"	118°30'00"							

\* Denotes IATCB Meeting at which Air Space Reservations Approved.

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REPRODUCED FROM THE DODGING OF THE NAVY AND THE PACIFIC REGION, LEGISLATIVE OFFICE



In reply address

COMMANDER

NAVAL AIR BASES

11th Naval District  
San Diego 35, Calif.  
and refer to:

NA11/741-10 ADMIN  
Serial 66 - 95

(COPY)

HEADQUARTERS  
COMMANDER, NAVAL AIR BASES  
ELEVENTH NAVAL DISTRICT

MAR 28 1948

To: Commandant, ELEVENTH Naval District,

Subj: Targets - Discontinuance of.

1. Present fleet requirements indicate that there is no further need to retain targets listed in enclosure 1. It is, therefore, recommended that necessary action be taken to terminate the leases, remove the danger areas and restore the land to its former status.

2. Upon receipt of copy of this letter, units of Commander, Naval Air Bases, Eleventh Naval District, having cognizance of subject targets, will take necessary action to remove targets and restore the land to its original state, reporting to Commander, Naval Air Bases, Eleventh Naval District, when the restoration is completed.

/s/ A. D. Bernhard  
ALVA D. BERNHARD  
Commander, Naval Air Bases,  
Eleventh Naval District.

Encl. (HV)

1. List of Targets to be Discontinued.

cc: Navy Member, Los Angeles Subcommittee, IATCB  
ComFAirWC  
ComMarAirWC  
CO, MCAS, El Centro  
CO, NAAS, Holtville  
CinC, NAAS, Salton Sea

(ENCLOSURE 1)

to Com11 ity F-7 11/741-10, Ser. No. P-22834

**TARGETS, INCLUDING LOCATION AND STATUS OF LEASE PERMITS  
TO BE DISCONTINUED**

TARGET NUMBER	LOCATION	STATUS LEASE PERMIT
14	Lat. 33-25-45 N Offshore Long. 118-51-00	None Necessary
19	Coronado Islands Lat. 32-25-35 N Long. 117-15-45 W	International Permit with Mexican Government.
22	Lat. 33-28-28 N Offshore Long. 118-58-20 W	None Necessary
52	Lat. 33-15-30 N Salton Sea Long. 115-55-10 W	No record of lease Ownership not established
57	Lat. 33-23-15 N Salton Sea Long. 115-48-45 W	Permit S. P. Land Co.
58	Lat. 33-20-50 N Salton Sea Long. 115-44-45 W	U. S. Govt. Dept. of Int.
59	Lat. 33-17-45 N Salton Sea Long. 115-40-30 W	By Section 14 - US Govt. By Section 23 S. P. Land Co.
60	Lat. 33-15-15 N Salton Sea Long. 115-44-50 W	U. S. Govt. Dept. of Int.
61	Lat. 33-15-15 N Salton Sea Long. 115-49-00 W	U. S. Govt. Dept. of Int.
62	Lat. 33-04-05 N Long. 117-48-14 W	U. S. Govt. Dept. of Int.
69	Lat. 32-52-30 N Long. 114-57-15 W	U. S. Govt. Dept. of Int.
77	Lat. 32-56-45 N Long. 115-53-45 W	480 acres U.S. Govt. Dept. of Int. 320 acres State of Cal. Permit 160 acres lease from Leta Kasley
90	Lat. 33-13-58 N Long. 115-58-58 W	U.S. Govt. Dept. of Int.
91	Lat. 33-13-58 N Long. 116-00-55 W	U.S. Govt. Dept. of Int.

(ENCL. 2.)

to Com1

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NAO11/P41-10, Ser. No. P-22834

OFF SHORE TARGETS

TARGET NO. 14.

Pacific Ocean. Lat.  $33^{\circ}20'45''$  N. Long.  $115^{\circ}51'00''$  W. Off shore from Santa Catalina Island. No land acquired. No restoration.

TARGET NO. 19.

Coronado Island. Lat.  $32^{\circ}25'33''$  N. Long.  $117^{\circ}15'45''$  W. Republic of Mexico, owners. Authority for use granted by International Permit with the Mexican Government. Ref. Coml confidential ltr to Vias CNO, File No. EP44/A1(A7-SR)SW1807 dtd 20 Oct. 1943. It is assumed that restoration will be made by the target crew stationed at this target and that no additional funds will be required for restoration.

TARGET NO. 22.

Pacific Ocean. Lat.  $33^{\circ}23'23''$  N. Long.  $115^{\circ}36'26''$  W. Off shore from Santa Catalina Island. No land acquired. No restoration.

TARGET NO. 52.

Salton Sea Target. Lat.  $33^{\circ}19'30''$  N. Long.  $115^{\circ}55'10''$  W. Located in Section 3, Twp. 10S, Rge. 10E. Original target location was in Section 10, Twp. 10S, Rge. 10E, which section was Government owned by Dept. of Interior and authority was given for Navy use of land by permit from Secretary of Interior (the present location of the target is probably due to shifting from the action of wind and storms as this is a water target and was anchored at its original location). ((a) Ref. (a), ComNAC ltr to Coml, NAC11/55/NIS(501869) dtd 1942. (b) Withdrawn by Executive Order dtd 3 Sept. 1941.) Removal of target will be by station labor. No restoration will be required.

TARGET NO. 57.

Salton Sea Target. Lat.  $33^{\circ}25'15''$  N. Long.  $115^{\circ}43'45''$  W. Located in Section 15, Twp. 03, R 11E, SBBAN, used by the Navy under Revocable Permit from the Imperial Irrigation District No. 308-8-39 dtd 20 April 1943 and "Amendment to Revocable Permit dtd 20 April 1943." Amendment dtd 3 Feb. 1966. Request: Ref. ComNAC ltr to Coml NAC11/55/NIS(501869) dtd 12 Dec. 1943. This is a water target. Removal of target will be by station labor. No restoration will be required.

TARGET NO. 58.

Salton Sea Target. Lat.  $33^{\circ}20'50''$  N. Long.  $115^{\circ}44'55''$  W. Located in Section 22, Twp. 9S, R 12E, SBB&N, Imperial County, and was apparently originally located in Sec. 6, T 10S, R 12E, which section is Government owned under Dept. of Interior. Request: Ref. ComNAS ltr to Comll HAC11/SS/N12(801569) dtd 12 Dec. 1942. Present coordinate position probably due to drifting of target due to winds and storms. This is a water target. Removal of target will be by station labor. No restoration required.

TARGET NO. 59.

Salton Sea Target. Lat.  $33^{\circ}17'45''$  N. Long.  $115^{\circ}40'30''$  W. Located in the  $S\frac{1}{2}$  of Sec. 14 and  $N\frac{1}{2}$  of Sec. 23, Twp. 10S, Rge. 12E, SBB&N, Imperial Co. Request for: ComNAC ltr to Comll, HAC11/SS/N12 (801569). Section 14 is Govt. Owned land under Dept. of Interior, and Sec. 23 is Navy used under Revocable Permit from the Southern Pacific Land Company. This is a water target. Removal of target will be by station labor. No restoration will be required.

TARGET NO. 60.

Salton Sea Target. Lat.  $33^{\circ}15'15''$  N. Long.  $115^{\circ}44'50''$  W, located in Section 22, Twp. 10S, Rge. 12E, original location requested by ComNAS ltr to Comll, HAC11/SS/N12(801569) dtd 12 Dec. 1942  $W\frac{1}{2}$  Sec. 4 and Sec. 5, Twp. 11S, R 13E. These sections were in the Wild Life Refuge and target was relocated in present position on Dept. of Interior land. (Ref. Comll ltr to BuDocks, HAC11/F41-10, Ser. No. P-14190 dtd 29 April 1944.) This is a water target. Target will be removed by station labor. No restoration required.

TARGET NO. 61.

Salton Sea Target. Lat.  $33^{\circ}15'15''$  N. Long.  $115^{\circ}49'00''$  W. Located in Sec. 34, Twp. 10S, Rge. 11E. Original location requested. Sec. 28 and 33, Twp. 10S, Rge. 11E, by ltr ComNAS to Comll, HAC11/SS/N12(801569) dtd 12 Dec. 1942. Sec. 28 is Government owned. Used under permit Dept. of Interior. Sec. 33 being lands of the Imperial Irrigation District and Navy used under a revocable permit therefrom. The present coordinate location is probably due to drifting of the target due to wind and storms. This is a water target. Target will be removed by station labor. No restoration required.

TARGET NO. 62.

Kanss Springs Target. Lat.  $33^{\circ}04'06''$  N., Long.  $117^{\circ}48'14''$  W. Located in Section 2, Twp. 15, Rge. 11E, SBB&M. Govt. owned under Dept. of Interior. Request: Ref. ComNAC ltr to Comil, NAC11/N1-13(950333) fre dtd April 22, 1944. Land withdrawn under Reclamation Act of June 17, 1902. Dept. of Interior. Ref. Comil ltr to BuDocks NAC11/F41-10, Ser. No. P-14190. Removal of target by station labor. No restoration required.

TARGET NO. 69.

Ogilby Bombing Target. Lat.  $32^{\circ}52'30''$  N. Long.  $114^{\circ}57'15''$  W. Located in Section 4, Twp. 15S, R 19E, SBB&M, Imperial County. Govt. owned under Dept. of Interior. Requested by ComNAB ltr to Comil N1-13(950628)mc dtd. 8 Dec. 1944 and Comil ltr to BuDocks KV37, Ser. P. 17311, dtd 3 Feb. 1945 used by Navy under permit from Dept. of Interior dtd 27 March 1945. No restoration required.

TARGET NO. 77.

Coyote Wells Target. Lat.  $32^{\circ}56'45''$  N. Long.  $115^{\circ}53'45''$  W. Located in Sec. 24, Twp. 14S, Rge. 10E and Sec. 19, Twp. 14S, R 11E, SBB&M. The  $W\frac{1}{2}$  of Sec. 19, Twp. 14S, R 11E and the  $W\frac{1}{2}$  of Sec. 24, Twp. 14S, R 10E are Govt. owned under the Dept. of Interior. The  $SW\frac{1}{4}$  of Sec. 24 being subject to a valid desert land entry No. 039194 made 21st of May 1913 Lesta Kasley. (Present whereabouts unknown). The  $E\frac{1}{2}$  of Sec. 24 is owned by the State of California and used by the Navy under permit with the State of California dtd 24 March 1943. Ref. Comil ltr to BuDocks NAC11/F41-10 (Ser. No. P-12066) dtd 14 Sept. 1943. Authority for use of Dept. Interior Land and Desert Entry. Ref. ltr from BuDocks to Comil ND11/N1-13-F-3-3/RAG/flm 65-7-CW dtd 11 Sept. 1944. Removal of target by station labor. No restoration expected.

TARGET NO. 90.

Winona #1. Rocket Firing. Lat.  $33^{\circ}15'38''$  N. Long.  $115^{\circ}58'58''$  W. Located in Section 12, Twp. 11S, Rge. 9 E, SBB&M. Ref. Logistic ltr to ComNAC, NAC11/F41-10, Ser. No. P-15546 dtd 29 Aug. 1944. Request for target lands. Comil ltr to BuDocks NAC11/F41-10, Ser. No. P-14190 dtd 29 April 1944. Govt. owned. Dept. of Interior. Removal of target by station labor. No restoration expected.

**TARGET NO. 81**  
**(Originally designated Rocket Target No. 81)**

Winona #2, Rocket Firing Target, Lat. 33°15'38"N, Long. 116°00'55"W.  
Located in Sec. 10, Twp. 11N, Rge. 9E, SB34N. Ref. Logistic ltr to  
Comd MAG11/P41-10, Ser. No. P-18845 dtd 27 Aug. 1944. Access road to  
targets 80-81, HAF. Par. 3 Comd ltr to BuDecks MAG11/P41-10, Ser. No.  
P-18952 dtd 18 May 1945 re permit to use portion of Sec. 11. Request  
for target lands. Comd ltr to BuDecks MAG11/P41-10, Ser. No. P-14190.  
Govt. owned Dept. of Interior. Removal of target by station labor. No  
restoration expected.

ND11/MAC11/F41-10  
(PW)

MA:ST

71-13

14 FEB 1946

Imperial Irrigation District  
Imperial, California

Gentlemen:

Enclosed herewith is fully executed Amendment to  
Revokeable Permit covering land located in Imperial  
County, California. By this Amendment Section 1,  
Township 9 South, Range 9 East, S2000, is eliminated  
from said Permit. The Permit now covers Section 23,  
Township 10 North, Range 15 East, S2000; Section 15,  
Township 9 South, Range 11 East, S2000; Section 33,  
Township 10 North, Range 21 East, S2000, all located  
in Imperial County, California.

S 33 18"  
S 15 ✓ 14  
S 33 ← SE

All of the aforementioned lands are used by the  
Naval Air Center, San Diego, California, in connec-  
tion with training activities.

Very truly yours,

A. K. FOGG,  
Public Works Officer  
11th Naval District.

Encl. (1)

Copy for Commandant's Office ✓

**ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR  
SALTON SEA BOMB TARGET (FBT 16) (#57)  
IMPERIAL COUNTY, CALIFORNIA  
PROJECT NUMBER J09CA018701**

**APPENDIX G**

**REAL ESTATE DOCUMENTS**



APPENDIX G

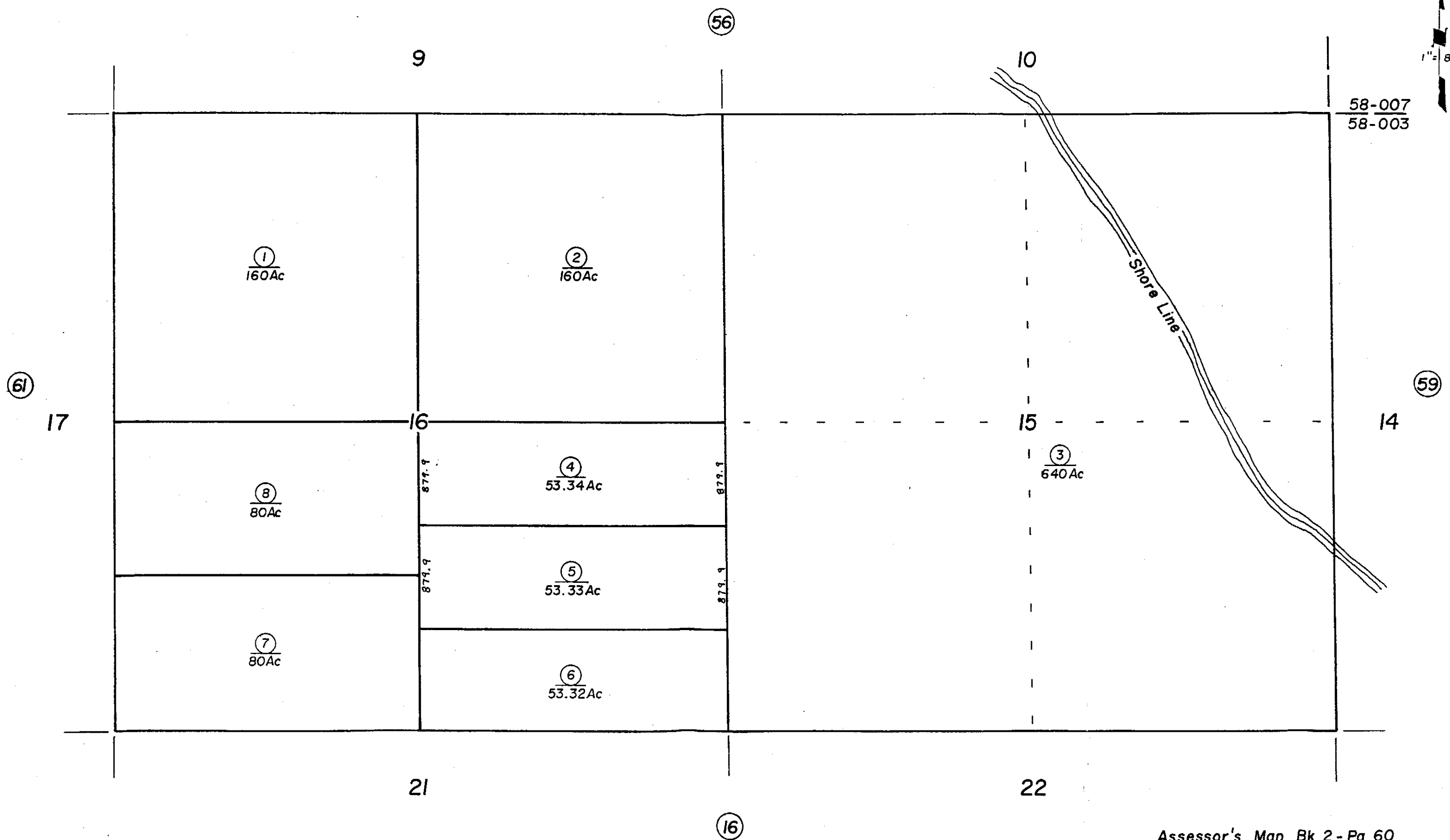
REAL ESTATE DOCUMENTS

Table of Contents

- G-1 Current site platt map (B-25).
- G-2 Site ownership information (B-26).

1" = 80'

58-007  
58-003



From 2-01  
3-28-74 ED

Assessor's Map Bk 2 - Pg 60  
County of Imperial, Calif.

13:06:14

ASSESSORS CURRENT ROLL

12/06/01

Parcel No: 0026000301  
Status: 20  
Tax Area Code: 58003  
Owner: I I D  
In Care Of:  
Street Address: 333 E MAIN ST  
City-State: IMPERIAL CA  
Situs:

92251

Values:	Land Value:	35,128
	Imp Value:	0
	Mobile Home:	0
	Pers Prop:	0
	Misc Exemp:	0
	H/O Exemp:	0
Total Net Value:		<u>35,128</u>

Misc Code: 84  
Sts No:

Use Code: UXXB3  
Rec No:

Yr Appraised: 5

Description: SEC 15 T9S R11E 640 AC

OSM02R

**ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR  
SALTON SEA BOMB TARGET (FET 16) (#57)  
IMPERIAL COUNTY, CALIFORNIA  
PROJECT NUMBER J09CA018701**

**APPENDIX H**

**NEWSPAPERS/JOURNALS**

**(NOT USED)**

**ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR  
SALTON SEA BOMB TARGET (FBT 16) (#57)  
IMPERIAL COUNTY, CALIFORNIA  
PROJECT NUMBER J09CA018701**

**APPENDIX I**

**INTERVIEWS**

APPENDIX I

INTERVIEWS

Table of Contents

I-1 Interview with Dick Chirico.

I-2 Interview with Daniel Duarte.

CONVERSATION RECORD		TIME 1000	DATE 6 December 2001
TYPE			
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NAME OF PERSON CONTACTED Dick Chirico		ORGANIZATION California State Park Service	TELEPHONE NO. 760-393-3052
SUBJECT Salton Sea State Park Visitor's Center			
SUMMARY: Mr. Dick Chirico works at the Salton Sea Desert Visitor's Center in the Salton Sea State Park. The center provides information on the Salton Sea, surrounding area and the history of the park. Mr. Chirico has a vast knowledge of the state park and stated that there has been a tremendous amount of excavation throughout the park for roads, camping areas, boat launches, buildings, electrical and water lines since the opening of the park. He stated that the park opened in the early fifties and that there have never been any incidents involving ordnance. Mr. Chirico further stated that the Salton Sea has risen in the last fifty years and as a result, the shoreline is constantly changing.			
ACTION REQUIRED None			
NAME OF PERSON DOCUMENTING CONVERSATION Timothy Lux		ORGANIZATION CEMVR-ED-DO	TELEPHONE NUMBER 309-782-1478
SIGNATURE <i>Timothy Lux</i>		TITLE QASAS	DATE 6 December 01

CONVERSATION RECORD		TIME 1500	DATE 7 December 2001
TYPE			
<input checked="" type="checkbox"/> VISIT		<input type="checkbox"/> CONFERENCE	
		TELEPHONE INCOMING OUTGOING	
NAME OF PERSON CONTACTED Daniel Duarte		ORGANIZATION Imperial Valley Irrigation District	TELEPHONE NO. 760-339-9359
SUBJECT Salton Sea Bombing Target #57			
SUMMARY: Mr. Daniel Duarte works in the engineering services water department for the Imperial Irrigation District and has been working at that job for almost thirty years. Mr. Duarte has worked projects all around the Salton Sea area. He stated that to the best of his knowledge he does not remember ever finding or hearing of any ordnance or ordnance debris in or around the Salton Sea State Park area. Mr. Duarte had an index listing for a 1956 aerial photograph of subject site, but the photograph could not be located in the files.			
ACTION REQUIRED None			
NAME OF PERSON DOCUMENTING CONVERSATION Timothy Lux		ORGANIZATION CEMVR-ED-DO	TELEPHONE NUMBER 309-782-1478
SIGNATURE <i>Timothy Lux</i>		TITLE QASAS	DATE 7 December 01



**ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR  
SALTON SEA BOMB TARGET (FBT 16) (#57)  
IMPERIAL COUNTY, CALIFORNIA  
PROJECT NUMBER J09CA018701**

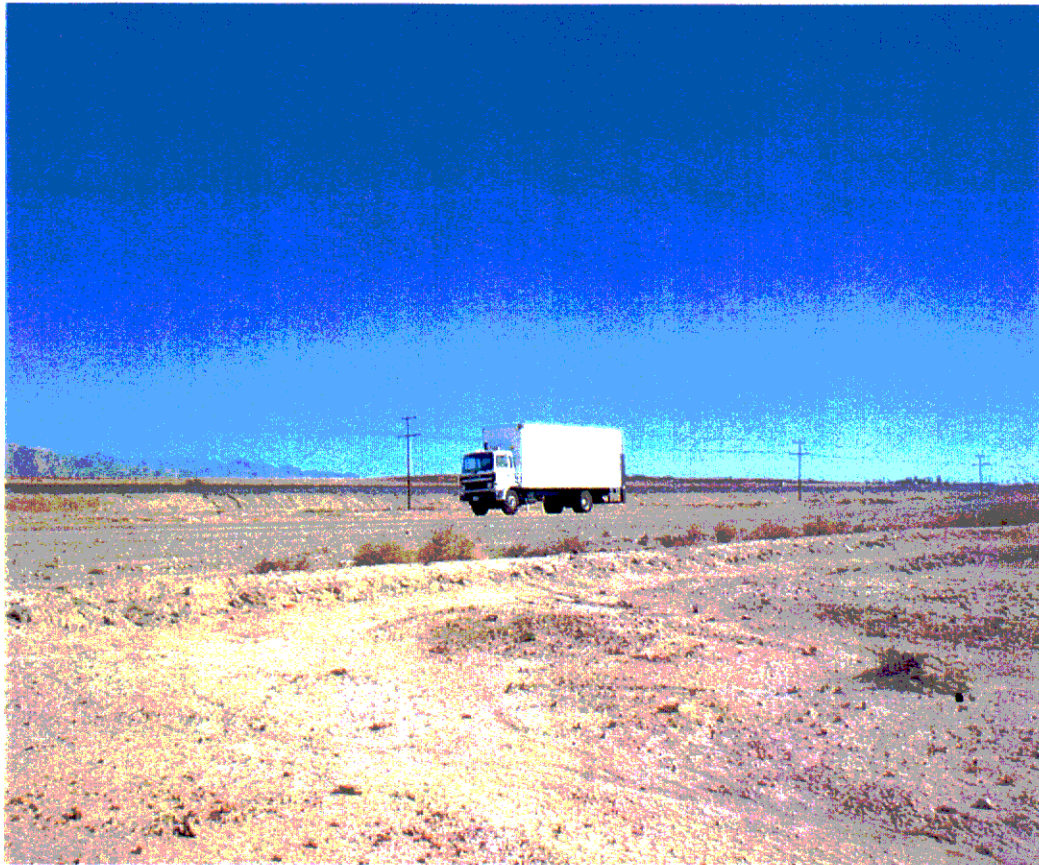
**APPENDIX J**

**PRESENT SITE PHOTOGRAPHS**

APPENDIX J  
PRESENT SITE PHOTOGRAPHS

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- J-1 Looking east at State Highway 111 (Area A).
- J-2 Looking southwest along site shoreline (Area A).
- J-3 Looking southeast across site (Area A).
- J-4 Looking east at rail line, which parallels the state highway (Area A).
- J-5 Looking west across Salton Sea (Area A).
- J-6 Looking northwest across Salton Sea from site shoreline (Area A).
- J-7 View of recreational vehicles at northeastern boundary of site (Area A).

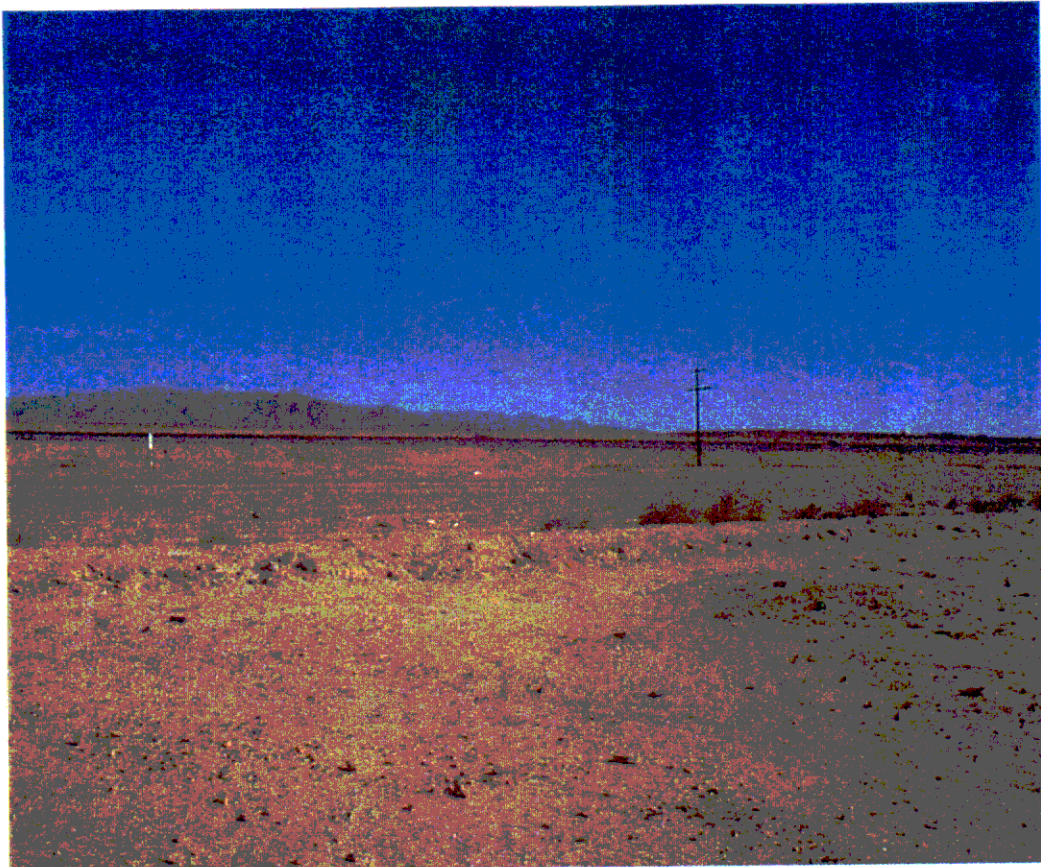


J-1: Looking east at State Highway 111, located approximately one-quarter mile from site (Area A).



J-2: Looking southwest from shore portion of site (Area A).





J-3: Looking southeast from shore portion of site (Area A).



J-4: Looking east at rail line, which parallels State Highway 111 (Area A).

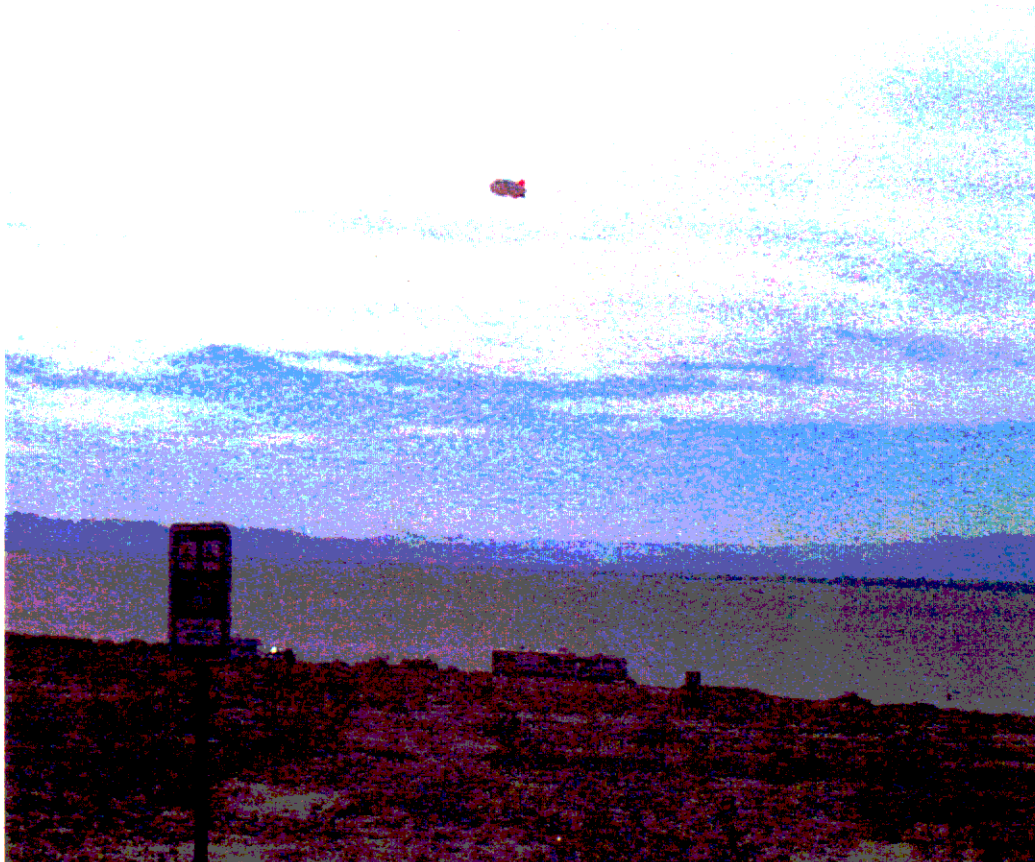




J-5: Looking west across Salton Sea from shore portion of site (Area A).



J-6: Looking northwest across Salton Sea from shore portion of site (Area A).



**J-7:** Recreational vehicles located at northern boundary of site. View is southwest (Area A).

**ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR  
SALTON SEA BOMB TARGET (FBT 16) (#57)  
IMPERIAL COUNTY, CALIFORNIA  
PROJECT NUMBER J09CA018701**

**APPENDIX K**

**HISTORICAL PHOTOGRAPHS**

**(NOT USED)**

**ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR  
SALTON SEA BOMB TARGET (FBT 16) (#57)  
IMPERIAL COUNTY, CALIFORNIA  
PROJECT NUMBER J09CA018701**

**APPENDIX I**

**REFERENCE MAPS/DRAWINGS**

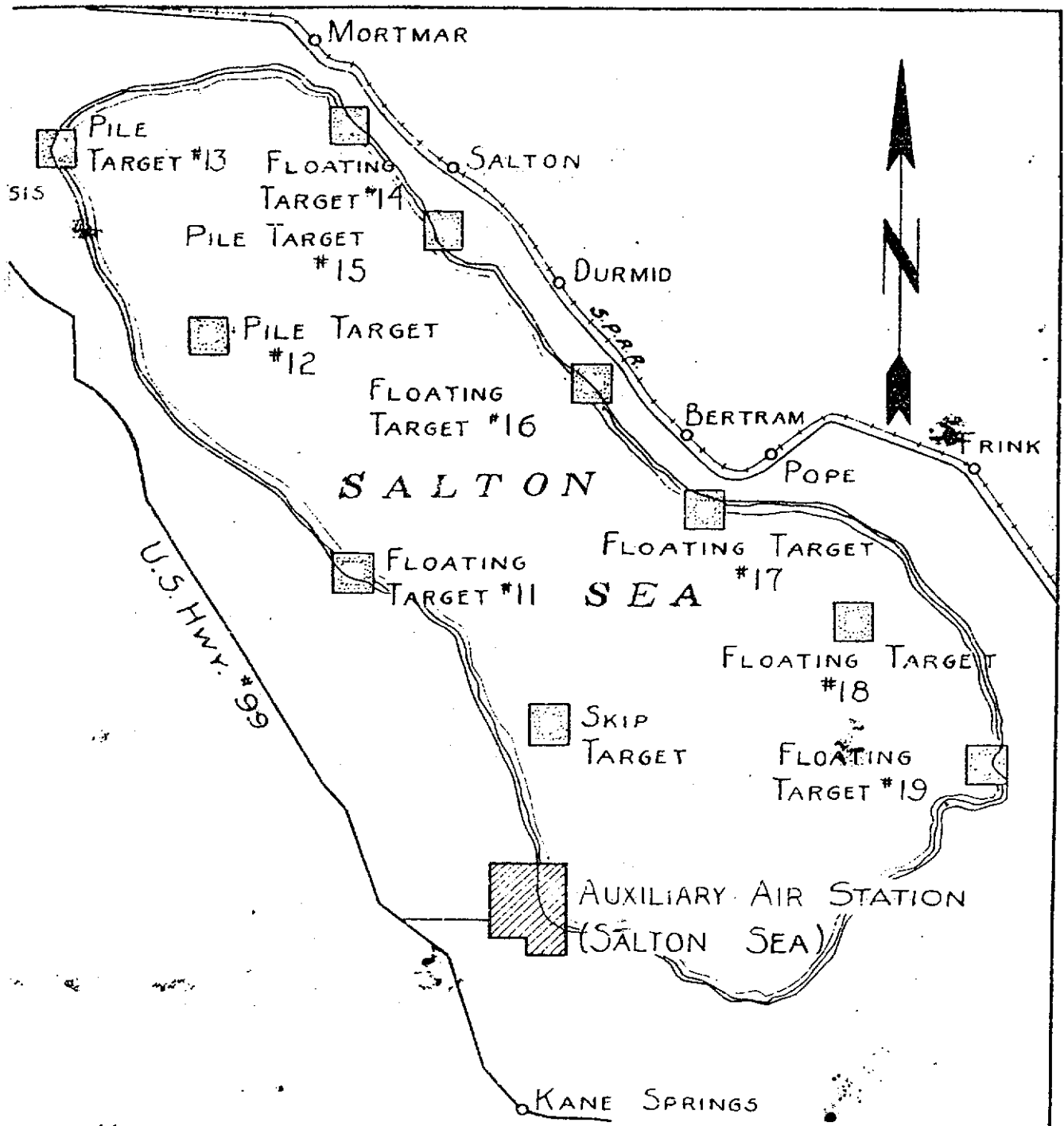


APPENDIX L

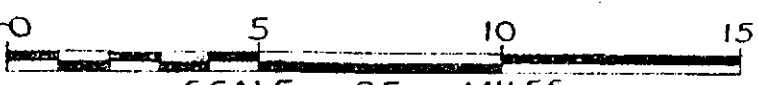
REFERNECE MAPS/DRAWINGS

Table of Contents

L-1 Salton Sea map showing proposed bomb target positions, circa 1942 (B-29).



REGO HOTEL  
LANDING FIELD



SCALE OF MILES  
VICINITY MAP

**ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR  
SALTON SEA BOMB TARGET (FBT 16) (#57)  
IMPERIAL COUNTY, CALIFORNIA  
PROJECT NUMBER J09CA018701**

**APPENDIX M**

**ARCHIVES SEARCH REPORT CORRESPONDENCE**

**(NOT USED)**

ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR  
SALTON SEA BOMB TARGET (FBT 16) (#57)  
IMPERIAL COUNTY, CALIFORNIA  
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APPENDIX N

PROJECT AREA BIBLIOGRAPHY

(NOT USED)

ORDNANCE AND EXPLOSIVES  
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IMPERIAL COUNTY, CALIFORNIA  
PROJECT NUMBER J09CA018701

APPENDIX O

REPORT DISTRIBUTION LIST

APPENDIX O

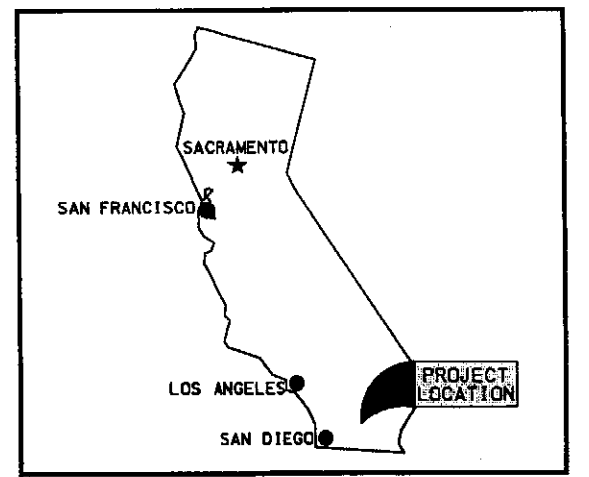
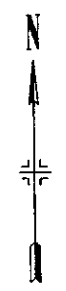
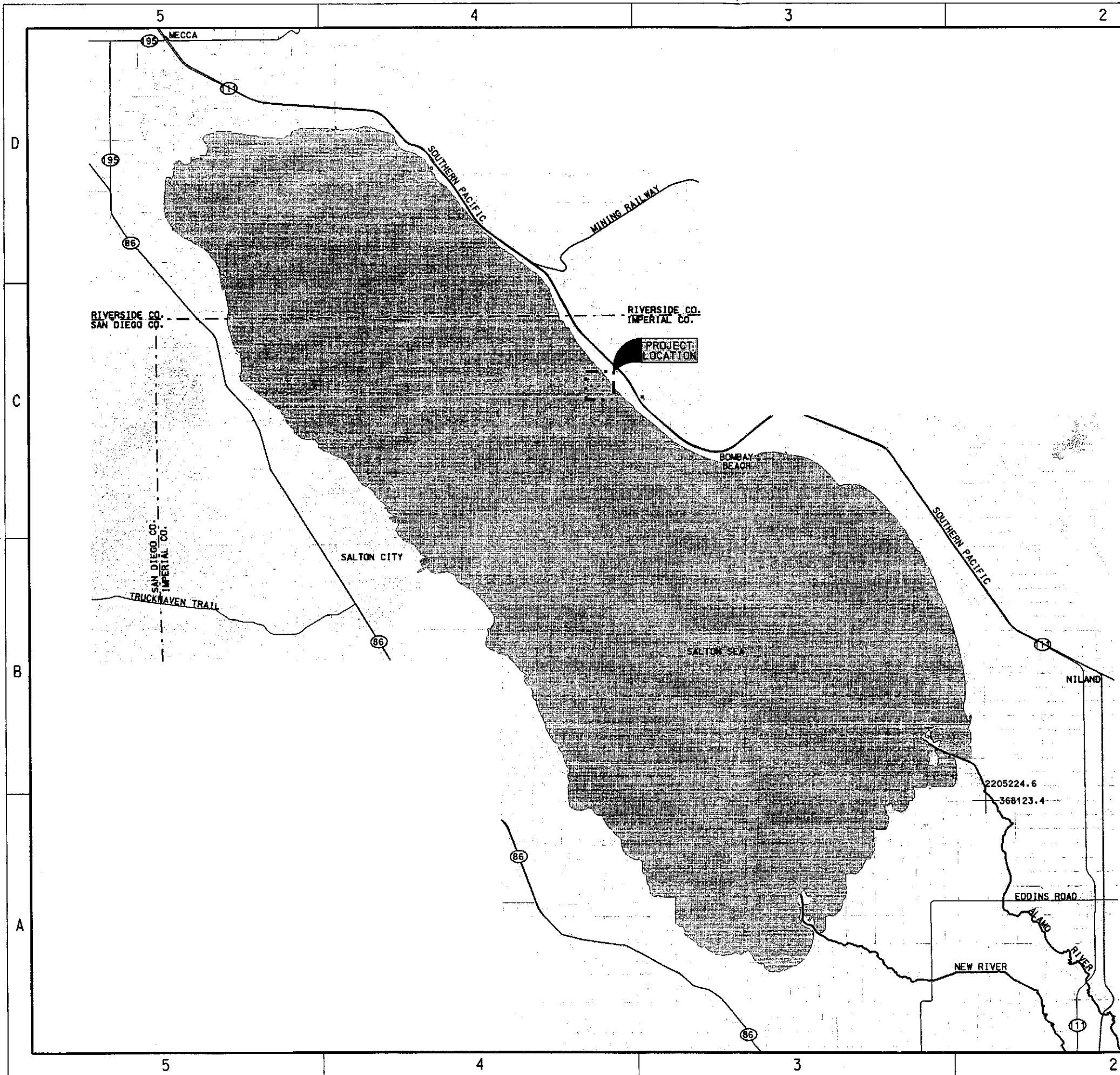
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-ED-D	-	-	1
-ED-DO	3	-	-

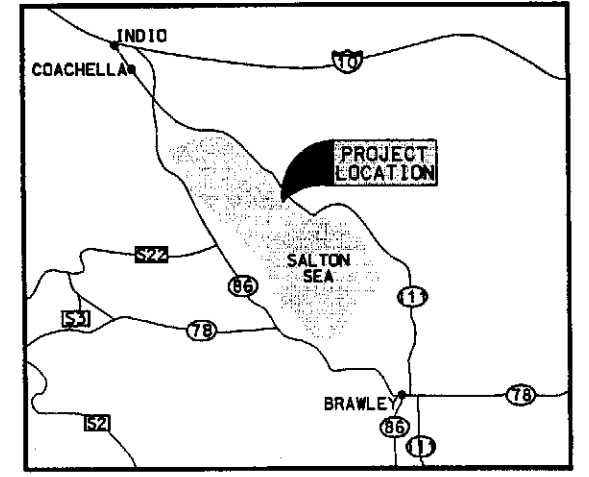
**ORDNANCE AND EXPLOSIVES  
ARCHIVES SEARCH REPORT  
FOR  
SALTON SEA BOMB TARGET (FBT 16) (#57)  
IMPERIAL COUNTY, CALIFORNIA  
PROJECT NUMBER J09CA018701**

**REPORT PLATES**

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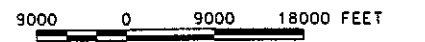
STATE MAP OF CALIFORNIA




VICINITY MAP

LEGEND

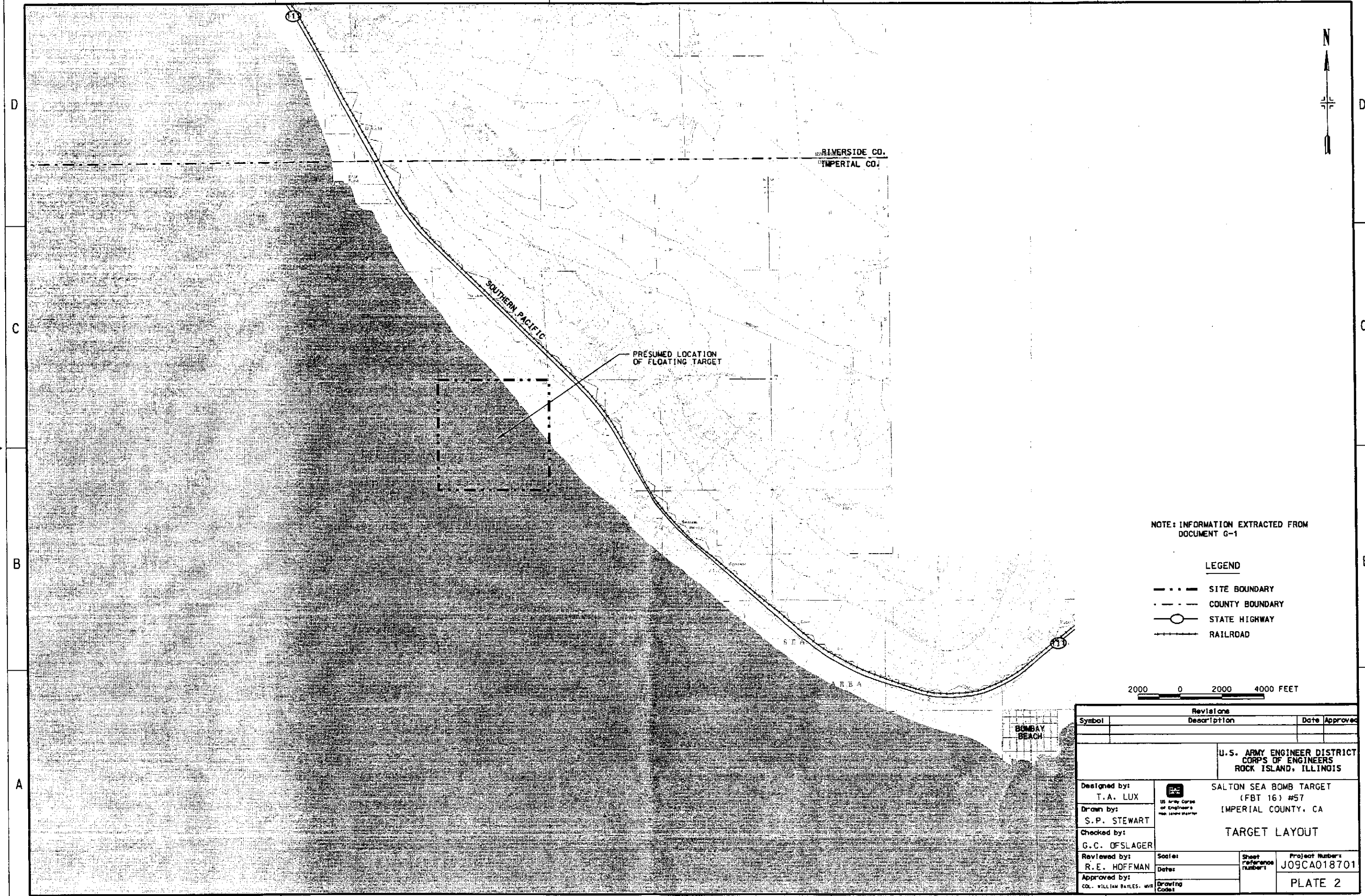
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- - - - COUNTY BOUNDARY
- STATE HIGHWAY
- MEDIUM DUTY ROAD
- RAILROAD
- + STATE PLANE COORDINATES



Revisions			
Symbol	Description	Date	Approved
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS ROCK ISLAND, ILLINOIS			
Designed by: T. A. LUX	 U.S. Army Corps of Engineers <small>non-seal marker</small>	SALTON SEA BOMB TARGET (FBT 16) #57 IMPERIAL COUNTY, CA	
Drawn by: S. P. STEWART		SITE MAP	
Checked by: G. C. OFSLAGER			
Reviewed by: R. E. HOFFMAN	Scale:	Sheet reference number:	Project Number: J09CA018701
Approved by: COL. WILLIAM BAYLES, MWR	Date:	Drawing Code:	PLATE 1



5 4 3 2 1




NOTE: INFORMATION EXTRACTED FROM DOCUMENT G-1

LEGEND

- SITE BOUNDARY
- - - COUNTY BOUNDARY
- STATE HIGHWAY
- RAILROAD

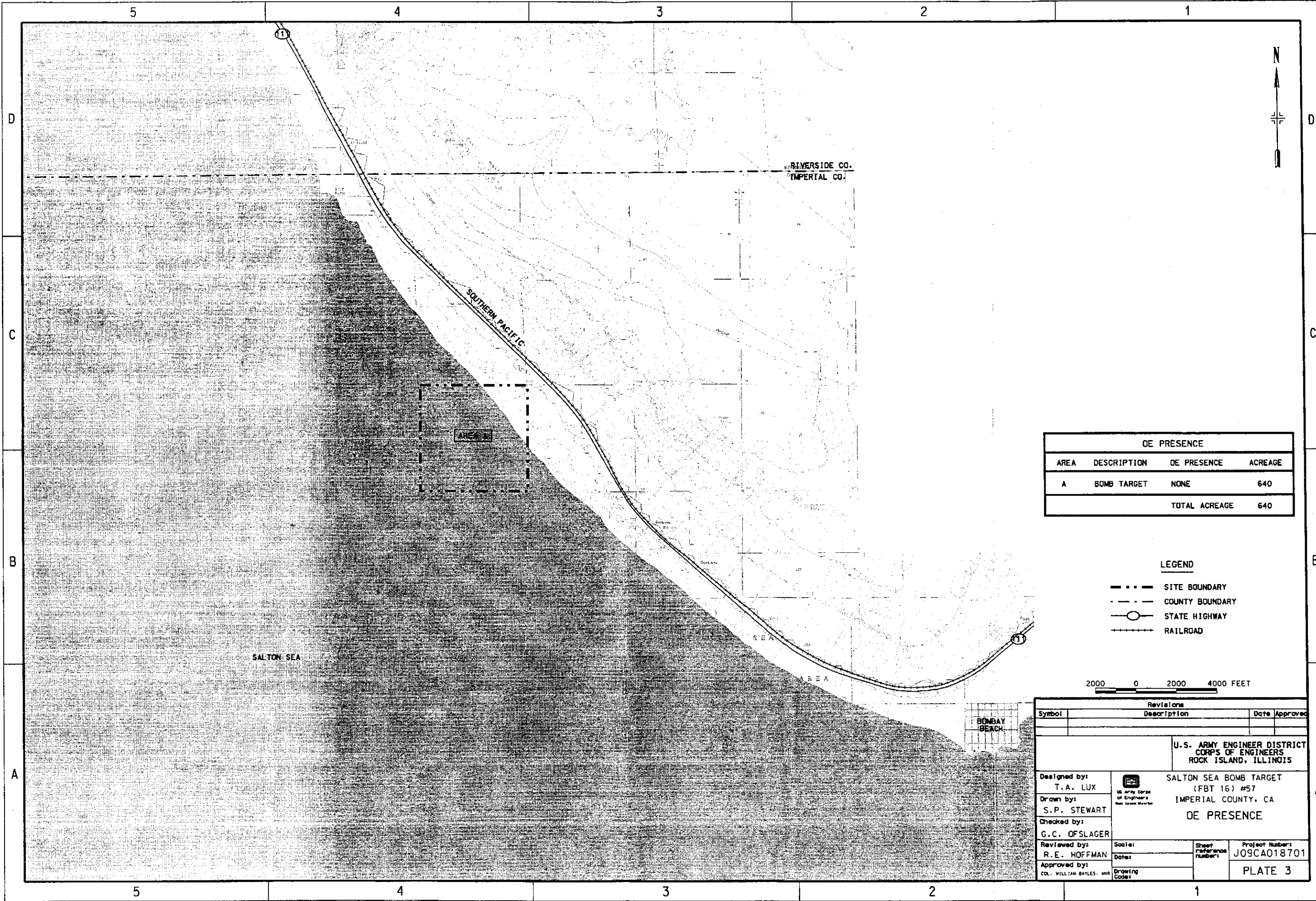
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Revisions		Date Approved	
Symbol	Description		
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS ROCK ISLAND, ILLINOIS			
Designed by: T. A. LUX	 SALTON SEA BOMB TARGET (FBT 16) #57 IMPERIAL COUNTY, CA  <b>TARGET LAYOUT</b>	Project Number: J09CA018701	
Drawn by: S. P. STEWART		Sheet reference number: PLATE 2	
Checked by: G. C. OFSLAGER		Date:	
Reviewed by: R. E. HOFFMAN		Drawing Code:	
Approved by: COL. WILLIAM BATES, MVR			

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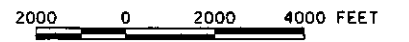
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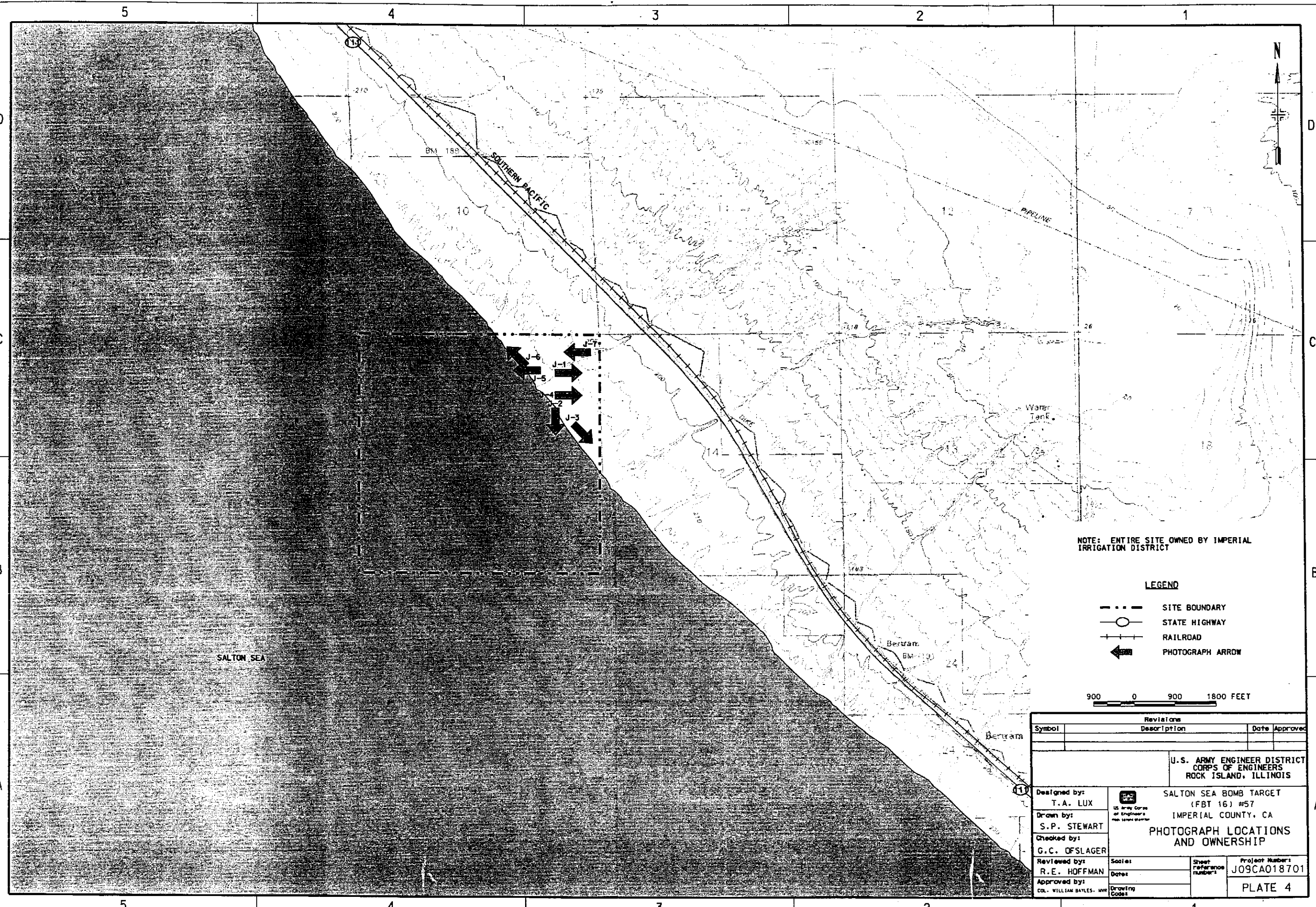
OE PRESENCE			
AREA	DESCRIPTION	OE PRESENCE	ACREAGE
A	BOMB TARGET	NONE	640
TOTAL ACREAGE			640

- LEGEND**
- SITE BOUNDARY
  - - - COUNTY BOUNDARY
  - STATE HIGHWAY
  - ++++ RAILROAD



Revisions			
Symbol	Description	Date	Approved
		U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS ROCK ISLAND, ILLINOIS	
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Drawn by: S.P. STEWART			
Checked by: G.C. OFSLAGER			
Reviewed by: R.E. HOFFMAN			
Approved by: COL. WILLIAM BAYLES, MVR	Scale: Date:	Sheet reference number:	Project Number: J09CA018701
			PLATE 3





NOTE: ENTIRE SITE OWNED BY IMPERIAL IRRIGATION DISTRICT

**LEGEND**

- SITE BOUNDARY
- STATE HIGHWAY
- + RAILROAD
- ← PHOTOGRAPH ARROW

900 0 900 1800 FEET

Revisions		Date Approved	
Symbol	Description		
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS ROCK ISLAND, ILLINOIS			
Designed by:	T.A. LUX	SALTON SEA BOMB TARGET (FBT 16) #57 IMPERIAL COUNTY, CA <b>PHOTOGRAPH LOCATIONS            AND OWNERSHIP</b>	
Drawn by:	S.P. STEWART		
Checked by:	G.C. OFSLAGER		
Reviewed by:	R.E. HOFFMAN		
Approved by:	COL. WILLIAM BAYLES, MVR		
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Date:			J09CA018701
Drawing Code:			PLATE 4

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