



US Army Corps
of Engineers
Rock Island District



McAlester, Oklahoma

DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
for
FORMERLY USED DEFENSE SITES
ORDNANCE AND EXPLOSIVES

ARCHIVES SEARCH REPORT

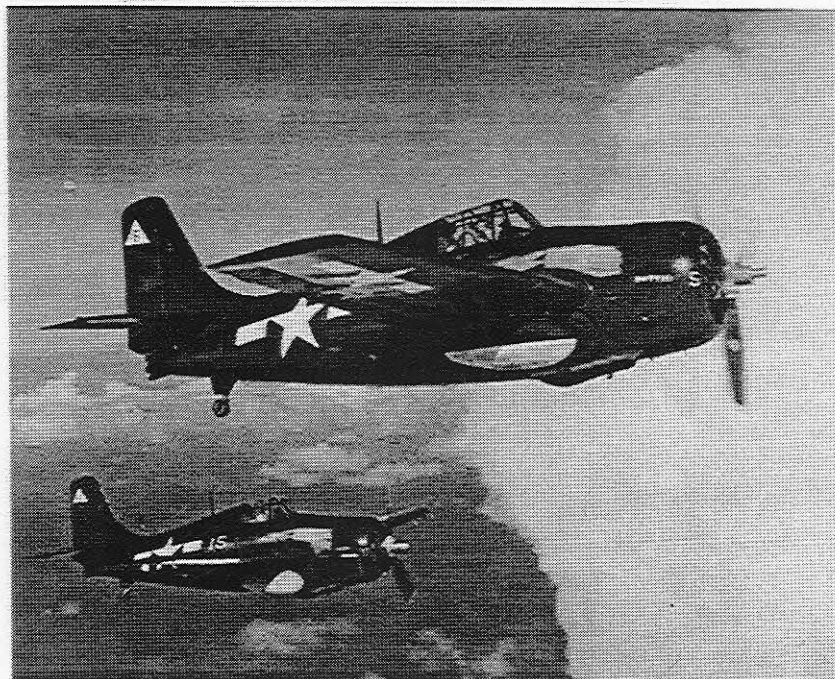
FINDINGS

FOR

Vernalis Bombing Target No. 6

San Joaquin, California
PROJECT NUMBER J09CA747301

May 2001



DRAFT

DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
for
FORMERLY USED DEFENSE SITES

FINDINGS

Ordnance and Explosives
Archives Search Report
For The Former
Vernalis Bombing Target No. 6
San Joaquin, California
Project Number J09CA747301

May 2001

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Ordnance and Explosives
 Archives Search Report
 For
 Vernalis Bombing Target No. 6
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Ordnance and Explosives
Archives Search Report
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FINDINGS

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Ordnance and Explosives
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1. INTRODUCTION

a. Subject and Purpose

(1) This report presents the findings of an historical records search and site inspection for ordnance and explosives (OE) presence located at the former Vernalis Bombing Target No. 6. 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 purpose of this investigation was to characterize the site for potential OE presence, to include conventional ammunition and chemical warfare materiel (CWM). This was achieved by a thorough evaluation of historical records, interviews, and an on-site visual inspection.

b. Scope

(1) The investigation focused on approximately 160 acres that was leased by the War Department for the Department of the Navy in 1943 to serve as a dive bombing target. Following the conclusion of WWII hostilities, the site became inactive in March 1946 and site property was returned to the land owners approximately December of 1946 when the lease was terminated.

(2) This report presents the site history, site description, real estate ownership information, and confirmed ordnance presence, based on available records, interviews, and the site inspection. It further provides a complete evaluation of all information to assess potential ordnance presence where actual ordnance presence has not been confirmed.

(3) For the purpose of this report, OE presence consists of live ammunition, live ammunition components, CWM or explosives which have been lost, abandoned, discarded, buried, fired, or thrown from demolition pits or burning pads. These items were manufactured, purchased, stored, used, and/or disposed of by the War Department (now Department of Defense).

Such ammunition/components are no longer under accountable record control of any DOD organization or activity.

(4) Expended small arms ammunition (caliber .50 or smaller) does not constitute an 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. **1999 Preliminary Assessment of Eligibility (PAE)**

(1) A PAE of the former Vernalis Bombing Target No. 6 was conducted under DERP-FUDS by the U.S. Army Corps of Engineers, 8 September 1999 (site number J09CA747300). The Findings and Determination of Eligibility (FDE) of this report, dated 8 September 1999, qualified 160 site acres as FUDS-eligible (see document E-1).

(2) Table 2-1 presents an overall view of the PAE phase.

Project Number	DERP Category	Present Phase	Comments	Location
J09CA747301	OE	SI	Ordnance Explosives	Vernalis Bombing Target No. 6 (see plates 1 & 2)
	HTRW	--	Not Recommended	
	BD/DR	--	Not Recommended	

b. **Other Investigations**

To the knowledge of the team, no other investigations pertinent to this site have been conducted or are being conducted at this time.

3. SITE DESCRIPTION

a. **Existing Land Usage**

(1) Former Vernalis Bombing Target No. 6 located in San Joaquin County, California. It is used primarily for cattle grazing.

(2) Table 3-1 represents the current land usage of the site.

(3) Table 3-1 lists the current listed owners, acreages and OE areas that are appropriate to this project (see document L-2).

TABLE 3-1 LAND USAGE					
AREA	FORMER USAGE	PRESENT OWNER	PRESENT USAGE	SIZE/ACRES*	COMMENTS
A	Target Area	H & L Cattle Company**	Cattle Grazing	160.0	
B	Buffer Zone	H & L Cattle Company	Cattle Grazing	475.0	

*Indicates approximate acreage

b. Climatic Data

(1) San Joaquin has a Mediterranean climate, which is characterized by hot, dry summers and cool, moist winters. Most of the rainfall occurs in the period of November through April.

(2) The air temperature in the area is moderated by the influence on the Pacific Ocean. It is slightly warmer during winter and slightly cooler during summer than nearby counties.

(3) Present-day climatic variations are the result of the effects of topography and relief. Temperature decreases with elevation, whereas the amount of precipitation increases with elevation. As the amount of precipitation increases, the extent of leaching, and the amount of vegetation also increase, resulting in an increased organic matter content and the cycling of bases.

(4) The hottest month is July with an average monthly temperature of 75.4 degrees F. January is the coldest month with an average monthly temperature of 45.1 degrees F. The highest recorded temperature is 112 degrees F. The lowest temperature was recorded as 17 degrees F.

(5) Most of the rainfall from November through April comes in the form of showers and thunderstorms. The average monthly precipitation is 10.33 inches. The maximum monthly precipitation measured at 13.18 inches. The minimum monthly precipitation was measured at just 5.78 inches. Snow appears in the higher elevations, starting at 2,000 feet but can appear as low as 1,100 feet during this time frame.

(6) Climatological data on the following page for the Vernalis area is summarized in Table 3-2.

TABLE 3-2

CLIMATOLOGICAL DATA					
Month	Temperature		Precipitation	Wind	
	Average Minimum (°F)	Average Maximum (°F)		Average Speed MPH	Average Fastest Wind speed MPH
January	36.7	53.6	1.98	6.6	30.6
February	40.1	60.6	1.39	6.8	27.6
March	42.4	66.1	1.46	7.5	28.8
April	45.3	72.6	.96	8.1	26.6
May	49.7	80.7	.29	9.1	25.4
June	54.8	88.2	.52	9.0	24.9
July	56.8	94.0	.04	8.1	22.3
August	55.4	92.5	.12	7.5	21.5
September	53.9	87.8	.26	7.0	22.6
October	48.9	78.4	.50	6.3	26.3
November	42.1	64.8	1.23	5.6	25.9
December	37.0	54.6	1.57	6.1	30.5
Average	46.9	74.5	10.33*	7.9	26.1

* Total Precipitation

c. Topography

(1) Alluvial fans and fan terraces along Hospital, Lonetree, and Corral Hollow Creeks Coalesce to form one vast alluvial plain. This area has been dissected and cut by shallow, meandering sloughs, many of which have been filled and leveled and are now farmed. The soils in this area have a high content of clay and silt. The highest elevation is 400 feet. The dominant slope is towards the northeast.

(2) On the eastern edge of the county, hills are in areas where dissection of the high terraces is so complete that the original surface of the terraces is no longer evident and old consolidated sediments are exposed. These hills are undulating to hilly. They range in elevation from 170 to 360 feet.

(3) The mountains of the Coast Range are undulating to steep. This area has been uplifted and dissected. It includes uplifted and dissected terraces that are substantially higher than the low terrace remnants below. Elevation ranges from 150 to 3,300 feet.

(4) Many low and high terraces on the eastern edge of the San Joaquin Valley have complex surface drainage patterns and microrelief. One of the drainage patterns occurs as a meandering or disarranged pattern of intermittent channels. These channels double back on each other. Short segments terminate at small closed basins, which commonly fill with water during the spring and are identified as vernal pools. These pools are most common in nearly level and gently sloping areas and become less numerous as the slope increases. In the more sloping areas, the drainage pattern is more aligned downslope and more integrated. It generally is poorly integrated in nearly level areas on low and high terraces where the surface has not been modified by land leveling or grading.

d. Geology and Soils

(1) The soils of Vernalis Bombing Target No. 6 belong to one of three soil series; Alo-Vaquero complex, 8 to 30 percent slopes, Alo-Vaquero complex, 30 to 50 slopes and Wisflat-Arburua-San Timoteo complex, 30 to 50 percent slopes.

(2) **Alo-Vaquero complex, 8 to 30 percent slopes.** These strongly sloping to moderately steep soils are on mountains. The native vegetation is mainly annual grasses and forbs. Elevation is 800 to 1,100 feet. The average annual precipitation is 9 to 13 inches, the average annual air temperature is about 61 degrees F, and the average frost-free period is about 270 days.

(3) The area is 45 percent Alo Clay and 40 percent Vaquero clay. The components of this unit occur as areas so intricately intermingled that it was not practical to map them separately at the scale used.

(4) Included in this area are small areas of Alo and Vaquero soils that have slopes of 2 to 8 or 30 to 50 percent. The areas where slopes are 2 to 8 percent are on toe slopes, and the area where are slopes are 30 to 50 percent are on the slightly higher parts of the landscape.

(5) The Alo soil is moderately deep and well drained. It formed in material weathered from shale.

Typically, the surface layer is brown clay about 16 inches thick. The subsoil is dark yellowish brown clay about 18 inches thick. Pale brown and light yellowish brown shale bedrock is at a depth of 34 inches. In some areas, the surface is silty clay.

(6) Permeability is slow in Alo soil. Available water capacity is low. The shrink-swell potential is high. The effective rooting depth is limited by the bedrock at a depth of 24 to 40 inches. Runoff is medium or rapid, and the hazard of water erosion is moderate or severe.

(7) The Vaquero soil is moderately deep and well drained. It formed in material weathered from sandstone.

(8) Permeability is slow in the Vaquero soil. Available water capacity is low. The shrink-swell potential is high. The effective rooting depth is limited by the bedrock at a depth of 20 to 40 inches. Runoff is medium or rapid, and the hazard of water erosion is moderate or severe.

(9) This area is used for livestock grazing or wildlife habitat. General management considerations include the clayey surface layer, excessive shrinking and swelling, and the hazard of erosion. The characteristic plant community is mainly wild oat, soft chess, and filaree. Trampling of the clayey surface layer by livestock when the soils are too wet reduces productivity and increases the runoff rate. Fencing is difficult. Excessive shrinking and swelling of the soils can cause fence posts to be tilted or removed from the ground. Grazing should be controlled so that desirable vegetation, such as soft chess, is maintained and enough vegetation is left standing to protect the soils from erosion.

(10) **Alo-Vaquero complex, 30 to 50 percent slopes.** These steep soils are on mountains. The native vegetation is mainly annual grasses and forbs. Elevation is 800 to 1,600 feet.

(11) This area is 45 percent Alo clay and 40 percent Vaquero clay.

(12) Included in this unit are small areas of Carbona soils on terraces and small areas of Vaquero soils that have slopes of 50 to 70 percent. The steeper Vaquero soils are on the slightly higher parts of the landscape. Also included are small areas of Wisflat, Arburua, and San Timoteo soils in convex positions near the top of the slopes. Included areas make up about 15 percent of the total acreage.

(13) The Alo soil is moderately deep and well drained. It formed in material weathered from shale. Typically, the surface layer is brown clay about 16 inches thick. The subsoil is dark yellowish brown clay about 18 inches thick. Pale brown and light yellowish brown shale bedrock is at a depth of 34 inches. In some areas, the surface layer is silty clay.

(14) Permeability is slow in the Alo soil. Available water capacity is low. The shrink-swell potential is high. The effective rooting depth is limited by the bedrock at a depth of 24 to 40 inches. Runoff is rapid, and the hazard of water erosions severe.

(15) The Vaquero soil is moderately deep and well drained. It formed in material weathered from sandstone. The soil is calcareous between depths of 10 to 25 inches and saline-sodic below a depth of 20 inches. In some areas, the surface layer is silty clay.

(16) Permeability is slow in the Vaquero soil. Available water capacity is low. The shrink-swell potential is high. The effective rooting depth is limited by the bedrock at a depth of 20 to 40 inches. Runoff is rapid, and the hazard of water erosion is severe.

(17) The area is used for livestock grazing. General management considerations include excessive shrinking and swelling and the severe hazard of erosion. The characteristic plant community is mainly wild oat, soft chess, and filaree. Fencing is difficult. Excessive shrinking and swelling of the soils can cause fence posts to be tilted or removed from the ground. Grazing should be controlled so that desirable vegetation, such as soft chess, is maintained and enough vegetation is left standing to protect the soils from erosion. Loss of the surface layer results in a severe decrease in productivity and in the potential of the unit to produce plants suitable for grazing.

(18) **Wisflat-Arburua-San Timoteo complex, 30 to 50 percent slopes.** These steep soils are on mountains. The native vegetation is mainly annual grasses, forbs, and perennial shrubs. Elevation is 300 to 1,500 feet.

(19) This area is 35 percent Wisflat sandy loam, 30 percent Arburua clay loam, and 20 percent San Timoteo Sandy loam. The Wisflat soil is on ridges and side slopes. The Arburua and San Timoteo soils are on mountains and foothills.

(20) Included in this unit are small areas of Wisflat, Arburua, and San Timoteo soils that have slopes of 50 to 77 or 15 to 30 percent. The areas where slopes are 50 to 70 percent are on the slightly higher parts of the landscape, and the areas where slopes are 15 to 30 percent are on toe slopes. Also included are small areas of exposed bedrock in convex positions near the top of the slopes and areas of very shallow to deep, coarse textured soils and deep, fine textured soils in landscaped positions similar to those of the Wisflat, Arburua, and San Timoteo soils. Included areas make up about 15 percent of the total acreage.

(21) The Wisflat soil is very shallow or shallow and is well drained. It formed in material weathered from sandstone. In some areas, the surface layer is fine sandy loam.

(22) Permeability is moderately rapid in the Wisflat soil. Available water capacity is very low. The effective rooting depth is limited by the bedrock at a depth of 10 to 20 inches. Runoff is rapid, and the hazard of water erosion is severe.

(23) The Arburua soil is moderately deep and well drained. It formed in material weathered from shale. In some areas, the surface layer is loam.

(24) Permeability is moderate in the Arburua soil. Available water capacity also is moderate. The effective rooting depth is limited by the bedrock at a depth of 20 to 40 inches. Runoff is rapid, and the hazard of water erosion is severe.

(25) The San Timoteo soil is moderately deep and somewhat excessively drained. It formed in material weathered from sandstone. In some areas the surface layer is fine sandy loam, gravelly sandy loam, or loam.

(26) Permeability is moderately rapid in the San Timoteo soil. Available water capacity is low. The effective rooting depth is limited by the bedrock at a depth of 20 to 40 inches. Runoff is rapid, and the hazard of water erosion is severe.

(27) The area is used for livestock grazing or wildlife habitat. General management considerations include the severe hazard of erosion, the very low or low available water capacity in the Wisflat and San Timoteo soils, and limited depth of the Wisflat soil. The characteristic plant community is mainly soft chess, red brome, and California

sagebrush on the Wisflat soil; soft chess, foxtail fescue, and red brome on the Arburua soil; and soft chess, wild oat, and filaree on the San Timoteo Grazing should be controlled so that desirable vegetation, such as soft chess, is maintained and enough vegetation is left standing to protect the soils from erosion. Loss of the surface layer results in a severe decrease in productivity and in the potential of the area to produce plants suitable for grazing. The very low or low available water capacity limits the production of desirable forage plants in some areas. Fencing is difficult because of the depth to bedrock

e. Hydrology

(1) Water for agricultural, domestic, and industrial uses in San Joaquin County is obtained from wells, rivers, creeks, canals, and sloughs. The water flows to the county mainly through the Mokelumne, Calaveras, Stanislaus, and San Joaquin Rivers. All of the rivers have dams and reservoirs upstream that help to control flooding and regulate the delivery of surface water during dry periods. The rivers supply most of the water for irrigation and for ground-water recharge. Nearly all of the water released during dry periods is used before it reaches the Sacramento-San Joaquin Delta.

(2) The Sacramento-San Joaquin Delta is the mixing point of the Sacramento River and the San Joaquin River before the water flows into the San Francisco Bay. Near Tracy, two major pump stations lift this water into two large canals—the Delta-Mendota Canal and the California Aqueduct. These canals convey the water south along the west side of the San Joaquin Valley.

(3) The water in the northern and eastern parts of the county is of relatively good quality. The natural source of this water is runoff from the accumulation of rainfall and snowfall in the Sierra Nevada. The water is of poorer quality in the central, southern, and western parts of the county, where the natural source is runoff from the lower rainfall area in the Coast Range. The lower positions collect runoff of lower quality.

(4) Ground water supplies about 30 percent of the irrigation water in San Joaquin County. Ground-water levels are declining in wells at a rate of about 1 foot per year in some parts of the county to about 3 feet per year in the northern part (4). Differences in pumping patterns, annual rainfall, and the hydraulic characteristics of the sediments are attributed to the variations in the area.

(5) The supply of ground water is being depleted in the Stockton area, where overdraft has resulted in an intrusion of poor-quality saline water from the west. The poor-quality ground water moves eastward through the Delta at a rate of 140 to 150 feet per year.

(6) Continued overdraft of the ground water will result in additional subsurface inflow of saline water and the abandonment of some wells. It may result in land subsidence in a few areas. The cost of electrical power also is affected by the overdraft. In recent years the cost of electrical power needed to pump the ground water used for irrigation has tripled.

f. Natural Resources

Prior to any intrusive remedial activities on this site, contact with the California Department of Fish and Game as required to obtain information regarding natural resources which are known to occur in the vicinity of Vernalis Bombing Target No. 6. A list of lands that are considered threatened, endangered, or of unusual concern must be obtain prior to remedial activities (see Appendix A).

g. Historical/Cultural Resources

Prior to any intrusive remedial activities on this site, contact with the State Historical Preservation Officer (SHPO) is required to obtain information regarding all locations of archaeological, historical, and cultural resources (see Appendix A).

4. HISTORICAL ORDNANCE PRESENCE

a. Chronological Site Summary

(1) On June 1942 construction work was started on 700 acres of land for the U.S. Naval Auxiliary Air Station, Vernalis (Vernalis NAAS), California. Vernalis NAAS initial operation was to start on or about 1 February 1943 with the full scale operation to be reached at Vernalis NAAS by 1 April, 1943 and it was commissioned on 8 June 1943. There was a need to establish small auxiliary units sufficiently close to Naval Air Station, Alameda than under the command of the 12th Naval District. Vernalis NAAS was chosen some 5 miles northwest of the town of Vernalis. The location combined the favorable features of year-around flying weather in a flat valley area which rendered airport construction work relatively simple and provided the necessary facilities at a

distance of 60 air miles from Alameda (see document F-1 and F-2).

(2) In 14 July 1942, 160 acres of land(see document K-1) was leased (Lease NOy(R) 33956) for the use as a bombing target from John Gallagher for \$160.00 per year. A silhouette of a ship outlined with white rock was used as a target. (see document F-3, document K-2)

(3) On June 23, 1943 funds were provided to build five steel arch-type explosive magazines at Vernalis NAAS (see document F-4).

(4) A request was submitted to order more bombing trainers (Mark II Mod. I Bombing Trainers) on June 24, 1943 (see document F-5).

(5) A Property Acquisition Map dated July 1943 shows the Vernalis Bombing Target No. 6 in relation to Vernalis NAAS (see document L-1).

(6) Alameda NAS, requested miniature bombs on 24 February 1945 for training. The practice bombs were the Mk 19 Mod 1 and Mk 43 Mod 1 (see document F-6).

(7) On May 1945, Vernalis NAAS had the following aircraft listed under their Naval Auxiliary Air Station(see document F-7).

- a. F5F-3-5 Qty 72
- b. FM-2 Qty 16
- c. TBF/M-1-10-3 Qty 12
- d. SB2C- A-5 Qty 9

(8) On 24 May 1945, the lease at Vernalis Bombing Target No. 6 was renewed for another year, for \$160.00 (see document F-8).

(9) July 1945, Commander Fleet Air, Alameda requested permission of the Bureau of Ordnance to modify the Mk4 practice bomb signal as a measure to eliminated the fire hazard when dropped on land targets. Permission was granted and instructions were provided to remove the flash powder from the Mk4 signal cartridge and replacing it with lamp Black. The type used at Alameda was manufactured by Black Inc., Casmalia, California and was sold under the name of "Black Knight" (see document F-9).

(10) December 26, 1945, three boys, Bill Fisk, George Bogetti, and Albert Bogetti found a number of bombs (Mk 19's, Mk 23's) at Vernalis Bombing Target No. 6. They would take them and melt them down for the metal. One of the explosive charges was still in a round when it was placed in the forge to be melted. It exploded spraying the boys with melted lead. They received only minor first and second degree burns (see document H-1).

(11) April 27, 1946, a Naval Speedletter, earmarking which post-war aviation gunnery areas, bombing, strafing, rocket, radar, fixed water borne targets, air support targets and torpedo dropping areas would be retained. Vernalis Bombing Target No. 6 was requested to remain open until June 1946 (see document F-10).

(12) April 1946, Congressman Leroy Johnson and Bertrand W. Gearhart, wrote the Secretary of the Navy, James Forrestal on behalf of the land owners on and around Vernalis Bombing Target No. 6 asking not to use the bombing target after 1 April of each year due to the fire hazard from dry grass land. The feed situation was so critical in California that a loss of some grass feed might place the owners of sheep and cattle in a position where he could not get any feed to take care of his stock (see document F-11).

(13) The local newspaper called the Tracy Press, had a small article on September 28, 1945. In it said that the Vernalis NAAS will be abandoned between then and the middle of 1946 (see document H-2).

(14) A facilities status report dated 15 February, 1947 shows Vernalis Bombing Target No. 6 lease was terminated on 5 December, 1946 (see document F-12).

b. Review of Ordnance Related Records

(1) An historical document search was conducted by the Site Inspection (SI) team to obtain ordnance-related records relevant to Vernalis Bombing Target No. 6. Research sites included, but were not limited to, National and State Archives, state, county, and local libraries, historical centers and societies, local newspapers, state, county, and local law enforcement and explosive ordnance disposal agencies. (see appendix A for a complete listing of contacts). The following documents are important to the verification of real property use by the Department of Defense and the presence of ordnance and explosive items:

(2) NAAS Vernalis History, dated 8 June 1943 to 12 October 1945. States that at a later date, an additional 160 acres were acquired from John Gallagher for use as a Dive Bombing Range (see document F-1).

(3) Memorandum dated 23 June 1943 to Officer-in-Charge of Construction, Twelfth Naval District, Federal Office Building, San Francisco, California; Subject: Naval Air Station, Alameda, Calif. -Outlying Fields- Magazines. Provided funds for construction of high explosive, steel arch-type, earth-covered magazines at Vernalis NAAS (see document F-4).

(4) Memorandum dated 24 February 1945 from NAS Alameda to BuOrd Subject: Miniature practice bombs; request for. Stating that delivery Mark 19 practice bombs be expedited to prevent interruptions in airplane pilot training. Mark 19 practice bombs were found at Vernalis Bombing Target No. 6 location (see document F-6).

(5) Memorandum from CNO to BuDocks, dated 24 May 1945, Subject: Naval Air Bases, 12th Naval District, Renewal of Lease Noy(R)33956 - Request for. This renewed the lease at Vernalis Bombing Target No. 6 for another year for \$160.00 (see document F-8).

(6) Memorandum from Commander Fleet Air, Alameda to Commandant, Twelfth Naval District dated 2 February 1946. Subject: Aviation Bombing Targets, Gunnery and Rocket Ranges and Boat facilities in Excess of Post-War Aviation Requirement. The document shows the latest correspondence available concerning action taken for post-war retention of aviation gunnery areas. It was requested that Vernalis Bombing Target No. 6 be retained until June 1946 (see document F-10).

(7) Letter from Rear Admiral USN, R.E. Jennings to Congressman James Leroy Johnson dated 24 April 1946, telling him that Vernalis Bombing Target No. 6 has been discontinued effective as of 28 March, 1946 (see document F-12).

c. Interviews with Site Related Personnel

(1) Several persons were interviewed that were able to provide general site and OE related information pertaining to Vernalis Bombing Target No. 6.

(a) Sheila Elworthy called the site inspector Jon P. Jones cell phone on 13 Feb 01 and told him we had permission to go on the Elworthy's property. She had just got off the phone with the Sheriff (Lt. Rector) and she said he

believes we are from the U.S. Army Corps of Engineers (because we had visited with him last week) and we are just checking their land for an old WWII bombing site. They were not aware there was a bombing range out there even though they had just bought the site just a few years ago. Note: Sheila Elworthy is the daughter-in-law of Hebert Elworthy, the owner. She handles the business affairs for their ranching operation. They are very cautious whom they let on their land. Any farther communication should be through Sheila Elworthy first. (see document I-1).

(b) Albert Bogetti, his brother, George, and a friend Bill Fisk would take Mk19 and Mk23 practice bombs from the bombing range and melt them down for the lead. On one occasion the charge was left in one and it exploded in the forge spraying them with molten lead. No one was seriously hurt. They came back several months after the range had closed to collect more but the range appeared to have been cleaned up by the Navy. (see document I-2 and H-1)

(c) Mr. George Delap was a former employee at the Vernalis / Crows Landing NAAS. He informed the inspection team that he worked the flight line at the base. His job was to work at the catapult system. He informed the inspection team that there was no aircraft ordnance (practice or HE) on Vernalis NAAS. Vernalis NAAS was used for strictly take off practice only. No ordnance was on the aircraft during this training. He informed the inspection team the aircraft that bombed at the bombing targets west of Vernalis NAAS came from the bay area but was not sure where. Mr. George Delap said he worked most of the time at Crows Landing NAAS. He worked at Vernalis NAAS only when there was catapult practice. The site inspection team believes that due to the close proximity of Vernalis Bombing Target No. 6. Any practice bombing operations would have stopped while performing catapult training. Dive-bombing practice and catapult training in such close quarters would have been very difficult (see document I-3).

5. SITE ELIGIBILITY

a. **Confirmed Formerly Used Defense Site**

(1) Former Vernalis Bombing Target No. 6 land usage by the Department of Defense (formerly War Department) is substantiated by historical maps, documents, and physical evidence which display the utilization of approximately 160 acres of land in San Joquinn County by the Navy as a bombing target for the Command (See Plate 1, see Photograph J-1).

b. Potential Formerly Used Defense Sites

No potential formerly used defense sites were discovered by the site inspection team during the historical record search and site inspection.

6. VISUAL SITE INSPECTION

a. General Procedures and Safety

(1) On the 13th of February 2001, members of the Assessment Team, Mr. Jon P Jones and Mr. Nickolas Heleg-Greza, visited the project portion of the former Vernalis Bombing Target No. 6. The primary task of the team was to assess confirmed OE presence and potential. The site inspection was limited to non-intrusive methods; i.e. subsurface sampling was not authorized nor performed.

(2) Real estate rights-of-entry were not obtained by the team due to the willingness of the property owners to allow the team to visit the property. Representatives were briefed on the non-intrusive nature of the inspection and the safety measures used by the inspection team (see document I-1).

(3) A site safety plan was developed and utilized by the assessment team to assure safety from injury during the site inspection of the area (reference B-4). Prior to the inspection, a briefing was conducted which stressed that only military EOD personnel should handle OE.

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

b. Area A: Target Area

(1) This area consists of approximately 160 acres of very undulating cattle grazing land. The land is only accessible by vehicles during the rainy season, which is the months of November through April, in this area. We were directed by the sheriffs department and the landowners that since it was the rainy season, if it started to rain we must leave the area as quickly as possible because the grassy terrain made vehicle handling very difficult in rainy conditions (see Photograph J-6). The rest of the year the grassy landscape becomes too dry to have standard vehicles

travel on it. Accessing the area is either on horseback or vehicles specialty equipped to prevent grass fires.

(2) The landowner gave the site inspection team the combination to the locked gate in order to gain access to the property. Once we were in the area, the jeep trail we were traveling lasted approximately ½ mile and from that point, it was open range. It took approximately 3 hours to traverse the estimated 3.75 miles of open range to the site area using a topographic map and GPS equipment. In order to find a safe route to the site using the GPS coordinates given to the site inspection team in the INPR, they crossed two steep ridgelines, a dry creek bed, and an active creek. Elevations in this area ranged from 400 feet to 1400 feet. The last ½ mile to the GPS coordinates was traveled on foot because the grassy slopes in the area were too steep for the four-wheel drive vehicle. The bomb target area was approximately 1 mile from the GPS coordinates given in the INPR. The site team found white marble rock scattered around the target area. This was used to outline the shape of a battle ship target (see document H-1).

(3) An inspection of this area by the site inspection (SI) team found evidence of OE in this area (see plate 4, photographs J-1 thru J-20).

c. Area B: Buffer Zone

(1) This area consisting of approximately 475.0 acres, is an estimated and reasonable error zone for ordnance misses (attributed to training bombing errors) landing beyond the confines of the practice bombing target area (Area A). This area is extremely hilly as in Area A (see Plates 3, 4).

(2) The site inspection team did not find evidence of OE presence in this area (see photo graphics J-1 thru J-20, and Plate 4).

7. EVALUATION OF ORDNANCE HAZARDS

a. General Procedures

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

(2) **Confirmed** ordnance 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 is not needed to identify a confirmed site. 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/bomb squads, military Explosive Ordnance Disposal (EOD) Units, newspaper articles, photographs, or maps. 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, on-site workers, soldiers who served there, etc.) verifying that they have seen OE presence on the surface or subsurface since site closure.

(3) **Potential** ordnance 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 is needed to confirm potential OE sites. Inference from historical records is based on no OE items located 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. 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. Indirect witness would be people who have stated that they have heard of OE presence on site (hearsay evidence).

(4) **No Ordnance Presence** is based on a lack of confirmed or potential ordnance evidence. There is no reasonable evidence, either direct or inferred, to suggest present day ordnance presence. Additional field data is not needed to assess no ordnance presence sub-sites.

b. Area A: Target Area

(1) This area is considered an area of **Confirmed** ordnance. The site inspection team found evidence of OE or OE debris in the area.

(2) The site inspection team found evidence in the form of OE debris. The items found were Mk19, Mk23 and Mk15 practice bombs (see document D-1 through D-2, Photograph J-8 thru J-20).

c. Area B: Buffer Zone

This area is considered an area of **Potential** ordnance presence. The site inspection team did not find evidence of OE or OE debris in the area. This area was exceptionally clean of OE debris scrap.

8. SITE ORDNANCE TECHNICAL DATA

a. End Item Technical Data

(1) Table 8-1 contains a listing of ammunition and explosive fillers for items with a potential or confirmed use within the project portion of the former Naval Auxiliary Air Facility.

(2) Technical data and drawings relative to the end items listed in table 8-1 can be found in Appendix D.

TABLE 8-1 AMMUNITION USED AND EXPLOSIVE/CHEMICAL FILLER (CONTINUED)		
Bombs, Practice		
ITEM	MODEL/TYPE	FILLER/WEIGHT
Bomb, Practice, 100-lb	Mk 15 Mod 2 FUZE: NONE	Body - sheet metal Filler - sand or water
Bomb, Practice, 100-lb	Mk 15 Mod 3 Mk 247 (inert)	Body - sheet metal Filler - sand or water Signal - Mk 7
Signal, practice bomb	Mk 7	1 lb. Black Powder
Bomb, Practice, Miniature	Mk 19, Mk 23	Lead filled 10 gauge shotgun shell with smoke charge Black

b. Chemical Data of Ordnance Fillers

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

TABLE 8-2
CHEMICAL DATA OF ORDNANCE FILLERS

FILLER	SYNONYM (S)	CHEMICAL FORMULA
Barium Nitrate		Ba (NO ₃) ₂
Black Powder 74% Potassium Nitrate 11% Sulfur 15% Charcoal	Saltpeter, Niter	KNO ₃ S C

9. OTHER ENVIRONMENTAL HAZARDS

a. Hazardous, Toxic, and Radiological Waste

No information has been found to indicate there are any potential sites/sources of HTRW on former site lands.

b. Building Demolition/Debris Removal

There were no structures or debris of significant importance found during this site inspection to warrant any BD/DR projects.

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San Joaquin, California
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APPENDIX A

REFERENCE SOURCES

VERNALIS BOMBING TARGET NO. 6
 SAN JOAQUIN COUNTY, CA
 SITE SPECIFIC INFORMATION SOURCE RECORD (REYNOLDS/REINHARDT/HARPER)

ORGANIZATION	NAME	TELEPHONE	NATURE OF SUPPORT
Defense Technical Information Center & Secure STINET 8725 John J. Kingman Rd Suite 0944 Fort Belvoir, VA 22060-6218	Computer Search (DTIC) & (STINET)	(703) 427-8274 (703) 767-8228	On-line computer search. No relevant information found on this site.
Department of Defense Explosives Safety Board Historical Accident Database 2461 Eisenhower Avenue Alexandria, VA 22331-0600	Computer Search (DDESB)	(703) 325-1369	On-line computer search. No relevant information found on this site.
National Imagery and Mapping Agency Attn: ISDFR 4600 Sangamore Rd Bethesda, MD 20816	Bill Harris	(800) 826-0342 DSN 287-2495	Aeronautical and nautical charts.
87 th Ord Det (EOD) 385 Bushnell Street Moffett Field, CA 94035	NCOIC SGT Rodriguez	(415) 603-8301 Fax 603-8305 DSN (359)	Has no site specific information.
HQ, USACE-Office of History Humphreys Engineer Center Attn: CEHO-ZA 7701 Telegraph Rd Alexandria, VA 22310	Contractor	(703) 428-6554	See Appendix B, Section II, Parts A&B.
IOC Historical Office Attn: AMSIO-PA Bldg. 390 Rock Island, IL 61299	Tom Slattery	(309) 782-1450 DSN 793-1450	Not staffed to do research. Referred to the NARA, Washington, DC.

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SITE SPECIFIC INFORMATION SOURCE RECORD (REYNOLDS/REINHARDT/HARPER)

ORGANIZATION	NAME	TELEPHONE	NATURE OF SUPPORT
MANSZEN Library 597 Engineer Loop Bldg. 3202, Suite 200 Fort Leonard Wood, MO 65473-8928	Joyce Waybright	(573) 563-4109 DSN 676-4109	No relevant information found on this site.
Rock Island Arsenal Museum Attn: SIORI-CFS-M Bldg. 60 Rock Island, IL 61299-5000	Chris Leinicke	(309) 782-5021 DSN 793-5021	Unable to provide support. Not staffed to do research.
U.S. Army Center of Military History 103 Third Ave. Fort McNair Washington, DC 20319-5058	Contractor	(202) 685-2733 DSN 325-2733	See Appendix B, Section II, Parts A&B.
U.S. Army Military History Institute Reference Library 22 Ashburn Drive Carlisle Barracks Bldg. 22 Carlisle, PA 17013-5008	Louise Friend John Slonaker	(717) 245-3103 DSN 242-3103 Fax DSN 242-4370	Has no information on this site.
U.S. Army Military History Institute Archives 22 Ashburn Drive Carlisle Barracks Carlisle, PA 17013-5008	David Keough	(717) 245-3189 DSN 242-3189	Has no information on this site.
U.S. Army Military History Institute Photo Archives 22 Ashburn Drive Carlisle Barracks Carlisle, PA 17013-5008	Mike Winey	(717) 245-3434 DSN 242-3434	Has no information on this site.

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SITE SPECIFIC INFORMATION SOURCE RECORD (REYNOLDS/REINHARDT/HARPER)

ORGANIZATION	NAME	TELEPHONE	NATURE OF SUPPORT
U.S. Army Ordnance Museum Aberdeen Blvd. Bldg. 2601 Aberdeen PG, MD 21005-5201	Dr. Atwater	(410) 278-3602 DSN 298-3602	Has no site-specific information.
U.S. Army SBCCOM Attn: AMSSB-SCI-H 5232 Fleming Rd Aberdeen PG, MD 21010	Kathleen Ciolfi	(410) 436-4430 DSN 584-4430	Review of SBCCOM former site listing provided no evidence of chemical warfare materials used at the site.
USACE, Sacramento District ATTN: CESP-K-ED-E 1325 J Street Sacramento, CA 95814-2922	Gerald Vincent	(916) 557-7452	Information included in HRS packet.
(AFHRA) Air Force Historical Research Agency Research Division 600 Chennault Circle Bldg. 1405 Maxwell AFB, AL 36112-6424	Joe Caver	(334) 953-5834 DSN 493-5834	Has no site-specific information. Site not owned/used by the Air Force.
(AFHRA) Air Force Historical Research Agency Information Systems Division 600 Chennault Circle Bldg. 1405 Maxwell AFB, AL 36112-6424	Sheila Roten (IRIS) Essie Roberts (IRIS microfiche)	(334) 953-6884 DSN 493-6884 (334) 953-2439 DSN 493-2439	Has no site-specific information. Site not owned/used by the Air Force.
Air University Library 600 Chennault Circle Bldg. 1405 Maxwell AFB, AL 36112-6424	Reference Services	(334) 953-2888 DSN 493-2888	Has no site-specific information. Site not owned/used by the Air Force.

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SITE SPECIFIC INFORMATION SOURCE RECORD (REYNOLDS/REINHARDT/HARPER)

ORGANIZATION	NAME	TELEPHONE	NATURE OF SUPPORT
Marine Corps Historical Center Washington Navy Yard 901 M St., SE Washington, DC 20374-5040	Contractor	(202) 433-3447 DSN 288-3447	See Appendix B, Section II, Parts A&B
Naval Construction Battalion Center (NCBC) NAVFAC Historian Office CB Logistics Center, Code 09 (Bldg. 99) 4111 San Pedro St. Port Hueneme, CA 93043	Dr. Vince Transano Carol Marsh	(805) 982-5913 DSN 551-5913 (805) 982-5563 DSN 551-5563	Any information gathered is included in the HRS packet.
Naval Construction Battalion Center (NCBC) Technical Information Center Attn: Code 72 1100 23rd Ave. Port Hueneme, CA 93043	Brian Thompson	(805) 982-1124 DSN 551-1124	Has no site-specific information.
Naval Historical Center Washington Navy Yard Naval Aviation History Branch 901 M St., SE Washington, DC 20374-5060	Contractor	(202) 433-4407 DSN 288-4407	See Appendix B, Section II, Parts A&B
Naval Historical Center Washington Navy Yard Operational Archives 901 M St., SE Washington, DC 20374-5060	Contractor	(202) 433-2833 DSN 288-2833	See Appendix B, Section II, Parts A&B

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SITE SPECIFIC INFORMATION SOURCE RECORD (REYNOLDS/REINHARDT/HARPER)

ORGANIZATION	NAME	TELEPHONE	NATURE OF SUPPORT
Naval Historical Center Washington Navy Yard Navy Department Library 901 M St., SE Washington, DC 20374-5060	Contractor	(202) 433-4132 DSN 288-4132	See Appendix B, Section II, Parts A&B
NAVEODTECDIV Technical Library 2008 Stump Neck Road Indianhead, MD 20640-5070	Betty Arbogast Dawn Risko	(301) 743-6834	Provided copies of old Navy publications. Valuable addition to Navy sources.
U.S. Naval Facilities Engineering Command Code 14B, Room 10N59 200 Stovall Street Alexandria, VA 22332-2300	Charlie Cox Jack Kane	(703) 325-7342 DSN (221) Fax 325-2839 (703) 428-0436	Real Estate Office. Sent Fax requesting availability of real estate information and maps/drawings for the site.
U.S. Naval War College Archives 686 Cushing Rd Newport, RI 02841-1207	Dr. Evelyn Cherpach	(401) 841-2435	No site specific information.
U.S. Naval War College Library 686 Cushing Rd Newport, RI 02841-1207	Alice Juda Maggie Rauch	(401) 841-4551	No site specific information.
U.S. Naval War College Museum 686 Cushing Rd Newport, RI 02841-1207	Tony Nicolosi Bob Cembrola	(401) 841-4052	No site specific information.
NARA-Archives I (Old Military and Civil Textual Division) Pennsylvania Ave. & 7th St., NW Washington, DC 20408	Contractor	(202) 208-1903 (202) 208-0370 (202) 208-6273	See Appendix B, Section II, Parts A&B

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SITE SPECIFIC INFORMATION SOURCE RECORD (REYNOLDS/REINHARDT/HARPER)

ORGANIZATION	NAME	TELEPHONE	NATURE OF SUPPORT
NARA-Archives II (Cartographic & Architectural Branch) 8601 Adelphi Rd College Park, MD 20740	Contractor	(301) 713-7040	See Appendix B, Section II, Parts A&B
NARA-Archives II (Motion Picture, Sound, and Video Branch) 8601 Adelphi Rd College Park, MD 20740	Contractor	(301) 713-7060	See Appendix B, Section II, Parts A&B
NARA-Archives II (Still Picture Branch) 8601 Adelphi Rd College Park, MD 20740	Contractor	(301) 713-6660	See Appendix B, Section II, Parts A&B
NARA-Archives II (Textual Reference Branch) 8601 Adelphi Rd College Park, MD 20740	Contractor	(301) 713-7250	See Appendix B, Section II, Parts A&B
NARA-Pacific Region (Laguna Niguel) 24000 Avila Road Laguna Niguel, CA 92677	Bill Doty Paul Wormser	(949) 360-2641 Fax (949) 360- 2624	See Appendix B, Section III, Parts A&B
NARA-Pacific Region (San Francisco) 1000 Commodore Drive San Bruno, CA 94066	John Hedger Kathleen O'Connor Barbara Bepler	(650) 876-9018 Fax (650) 876- 0920	See Appendix B, Section III, Parts A&B
National Personnel Records Center (Military Personnel Records) 9700 Page Ave. St. Louis, MO 63132-5100	Wilson Sullivan	(314) 538-4085	See Appendix B, Section III, Parts A&B.

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SITE SPECIFIC INFORMATION SOURCE RECORD (REYNOLDS/REINHARDT/HARPER)

ORGANIZATION	NAME	TELEPHONE	NATURE OF SUPPORT
Washington National Records Center 4205 Suitland Rd Suitland, MD 20746-8001	Contractor	(301) 457-7190	See Appendix B, Section II, Parts A&B
Library of Congress Geography and Map Division 101 Independence Ave., SE Washington, DC 20540-4650	Contractor	(202) 707-5000	See Appendix B, Section II, Parts A&B
Library of Congress Prints and Photographs Division 101 Independence Ave., SE Washington, DC 20540-4650	Contractor	(202) 707-5000	See Appendix B, Section II, Parts A&B
USDA Consolidated Farm Service Agency 1301 Redwood Way, Suite 190 Petaluma, CA 94954	Staff	(707) 794-1242 Ext 2	No relevant information found on this site.
USDA Natural Resource Conservation Service 1222 Monaco Court, Suite 23 Stockton, CA 95207	Jim Schneider	(209) 946-6229 ext. 124	Open M-F, 0800-1630. Sent soil survey for San Joaquin County.
NOAA National Climatic Data Center Federal Bldg. Asheville, NC 28801	Sam McCowan Yolanda Goosch	(704) 271-4272	Information on climatic data of California included in HRS packet.
NOAA National Climatic Data Center 151 Patton Avenue, Room 120 Asheville, NC 28801-5002	Customer Service	(828) 271-4800 Press 2 Fax 271-7627	Information on climatic data of California. Also provided "Local Climatological Data" from San Francisco. Enclosed in HRS packet.

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SAN JOAQUIN COUNTY, CA

SITE SPECIFIC INFORMATION SOURCE RECORD (REYNOLDS/REINHARDT/HARPER)

ORGANIZATION	NAME	TELEPHONE	NATURE OF SUPPORT
USGS Denver Federal Center P.O. Box 25286 Denver, CO 80225	Customer Service Neil Darling (NIMA)	(303) 202-4700 (703) 264-3001 Fax -3133	Received the following 7.5 min topographic quad maps: Midway, Tracy, and Union Island. Also received aerial photos dated 1987, 93, and 98. Items enclosed in HRS packet.
California Military Museum 1119 2 nd Street Sacramento, CA 95814	Bill Davies	(916) 442-2883 Fax 442-7532	No relevant information found on this site.
California State Archives 1020 East O St. Sacramento, CA 92415	Mr. Metzger	(916) 653-2246	No relevant information found on this site.
California State Library California History Section 914 Capitol Hall Library and Courts Bldg. Sacramento, CA 94237	John Gonzales Sybylle Zemitis	(916) 654-0176 Fax 654-8777	No site specific information.
California State Library Government Documents Section 914 Capitol Hall Library and Courts Bldg. Sacramento, CA 94237-0001	Brent Murphy	(916) 654-0069	No relevant information found on this site.
California State Library Government Publications Section 4201 Sierra Point Drive, Suite 112 Sacramento, CA 95834	Internet	(916) 654-0069 Fax 653-6114	Searched their web site catalog and found no relevant information on the site.

VERNALIS BOMBING TARGET NO. 6

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SITE SPECIFIC INFORMATION SOURCE RECORD (REYNOLDS/REINHARDT/HARPER)

ORGANIZATION	NAME	TELEPHONE	NATURE OF SUPPORT
SHPO Central California Information Center Department of Anthropology California State University, Stanislaus 801 W. Monte Vista Ave. Turlock, CA 95382	Jonna Nunes	(209) 667-3307 Fax 667-3324	Archeological, historical, and cultural information on the site is included in HRS packet.
Coast Defense Study Group, Inc. 731 Baltimore Pike Bel Air, MD 21014	Publication		Source of military history articles, however, no information on this site.
Council on America's Past 518 Why Worry Lane Phoenix, AZ 85021	Heliogram Publication	(800) 396-4693	Source of military history articles, however, no information on this site.
On-Line Computer Library Center & FirstSearch 6565 Frantz Road Dublin, OH 43017-3395	Computer Search (OCLC) & (FirstSearch)	(800) 848-5878	On-line computer search. No relevant information found on this site.
Scientific & Technical Information Library System Defense Ammunition Center John L. Byrd Jr. Technical Library ATTN: SIOAC-ESM 1 C Tree Rd McAlester, OK 74501-9002	Computer Search (STILAS)	(918) 420-8771 DSN 956-8771	On-line computer search. No relevant information found on this site.
California Historical Society 678 Mission Street San Francisco, CA 94105	Beth Graham	(415) 357-1848 Fax 357-1850	No site specific information.

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SITE SPECIFIC INFORMATION SOURCE RECORD (REYNOLDS/REINHARDT/HARPER)

ORGANIZATION	NAME	TELEPHONE	NATURE OF SUPPORT
California Military Museum 1119 2nd Street Sacramento, CA 95814	Staff	(916) 442-2883 Fax 442-7432	No site specific information.
Sheriff's Department-Jail 7000 Michael Canlis Way French Camp, Ca 95231-9781	LT. Phil Lawson Sgt Recter	(209) 468-4152 (209) 468-4172	Lt. Phil Lawson provided POC's in the Ranching area and was in providing plot information.
USDA Rural Development 1222 Monaco Ct, Stockton, Ca 95207-6742 Suit 23	Staff	(209) 946-6455	Provided Ariel photographs of bomb target in 1952. Still showing outline of the target.
San Joaquin Assessor's Office 24 South Hunter, Stockton, Ca. 95202	Staff	(209) 468-2630	Provided Plot and Deed information.
California Department of Fish and Game 1416 Ninth Street Sacramento, California 95814	Dr. Larry Eng	(916) 654-3828	Will provide a list of endangered species.

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APPENDIX B

REFERENCES AND ABSTRACTS

BIBLIOGRAPHIES

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Section II: National Capitol Region Archives Search Reference

Part A: Positive Findings

Part B: Negative Findings

SECTION III: Regional National Archive Findings

Part A: Positive Findings

Part B: Negative Findings

APPENDIX B

SECTION I: BIBLIOGRAPHY

- B-1. U.S. Army Corps of Engineers, Huntsville Division, "Management Plan for Ordnance and Explosive Waste (OEW) Mandatory Center of Expertise (MCX) and Design Center", CEHND 1105-3-9, November 1994.
- B-2. U.S. Army Corps of Engineers, Rock Island District, "Defense Environmental Restoration Program for Formerly Used Defense Sites, Ordnance and Explosive Waste, Archives Search Report Manual", Version 2.2, 17 April 1995.
- B-3. Department of the Army, Environmental Protection and Enhancement, AR 200-1, 23 April 1990.
- B-4. U.S. Army Corps of Engineers, Rock Island District, "Site Safety Plan for OEW Investigations, 18 June 1992", with Appendix A-262, 18 January 2001.
- B-5. U.S. Department of Agriculture, Soil Conservation Service, Soil Survey of San Joaquin County, California, issued October 1992.
- B-6. Department of the Army, the Navy, and the Air Force, Bombs and Bomb Components, TM 9-1325-200, April 1966 (D-1).
- B-7. Department of the Navy, U.S. Explosive Ordnance, OP 1664, 28 May 1947 (D-2).
- B-8. U.S. Army Corps of Sacramento District, "DERP-FUDS INPR (Site No. J09CA7473)", 21 September 1999(E-1)
- B-9. History, Vernalis NAAS, California, 8 June 43 - 12 October 45, Naval Historical Center-Naval Aviation History Office, Aviation History File, Air/Ground Establishments Trenton thru Vero Beach - 1944. (F-1)

- B-10. Memorandum, Director, Planning Division, Navy Department Bureau of Aeronautics, Washington D.C., Subject: Outlying Fields of Naval Air Station, Alameda, California - Establishment of. NARA - Archives II, RG 74 (Records of the Bureau of Ordnance) Entry: General Correspondence, Restricted, 1942 Box 435. (F-2)
- B-11 Memorandum, Commander Fleet Air, Alameda, Subject: Bombing Targets - Dis-establishment of. Real Property Records, Public Works Officer, Gunnery Range and Target Areas Released Since WW II, NARA, Pacific Region-San Francisco, RG 181, Location: ACC NN 373-91 (181-L3-0096) Box #12 of 12, 12thnd Public Works Officer, Real Property Records, 1952-60. (F-3)
- B-12. Memorandum, Navy Department, Bureau of Yards and Docks, Washington, D.C., Subject: Naval Air Station, Alameda, California - Outlying Fields - Magazines, dtd 23 June 1943. NARA - Archives II, RG 74 (Records of the Bureau of Ordnance); Entry: General Correspondence, Restricted, 1943, Box 468. (F-4)
- B-13. Memorandum, Commander Fleet Air, Alameda, Subject: Bombing Trainers for Outlying Fields, dtd 24 June 1943. NARA - Archives II; RG 74 (Records of the Bureau of Ordnance); Entry: General Correspondence, Restricted, 1943, Box 468. (F-5)
- B-14. Memorandum, Commander Fleet Air, Alameda, Subject: Miniature Practice Bombs; request for, Dtd 24 February 1945. NARA - Archives II; RG 74 (Records of the Bureau of Ordnance; Entry 1002A: Construction and Procurement Subject Files, 1945, Box 1202. (F-6)
- B-15. Memorandum, Commander Fleet Air, Alameda, Subject: Deployment of Aircraft, Naval Air Bases, TWELFTH Naval District - Allowances of Fleet controlled Section "B" Aeronautical Spares to be maintained at Naval Air Stations, 12ND, and Naval Auxiliary Air Stations, TWELFTH Naval District. NARA - Archives II, RG 74 (Records of the Bureau of Ordnance), Entry 1002A: Construction and Procurement Subject Files, 1945, Box 1201 (F-7).
- B-16. Memorandum, Navy Department, Bureau of Yards and Docks, Washington, D.C., Subject: Naval Air Bases, 12th Naval District, Renewal of Lease Noy(R)33956 - Request for.

- Dtd 24 May 1945. NARA - Archives II; RG 38 (Records of the Office of the Chief of Naval Operations); Entry 2: General Correspondence, July 1942 - June 1946, Box 709. (F-8)
- B-17. Memorandum, Commander Fleet Air, Alameda, Subject: Practice Bomb Signal Mk 4 - Modification of. Dtd 9 July 1945. NARA - Archives II; RG 74 (Records of the Bureau of Ordnance); Entry 1002A: Construction and Procurement Subject Files, 1945; Box 1203. (F-9)
- B-18. Memorandum, Commander Fleet Air, Alameda, Subject: NAB, 12ND; data on post-war requirements of aviation gunnery areas; submission of. 27 April 1946. NARA - Archives II; RG 74 (Records of the Bureau of Ordnance); Entry 1002A: Construction and Procurement Subject Files, 1945; Box 1203. (F-10)
- B-19. Letter, R. E. Jennings, Rear Admiral USN, Subject: Navy Bombing Target No. 6 Fire Hazard. Dtd 24 April 1946. NARA - Archives II; RG 38 (Records of the Office of the Chief of Naval Operations); Entry 2: General Correspondence, July 1942 - June 1946; Box 1145. (F-11)
- B-20. Memorandum, Commander, Naval Air Bases, Twelfth Naval District, Subject: Inactivated Auxiliary Air Stations in the Twelfth Naval District. Dtd 29 October 1947. Archives II; RG 38 (Records of the Office of the Chief of Naval Operations); Entry 2: General Correspondence, July 1942 - June 1946; Box 1145. (F-12)
- B-21. TRACY PRESS, "Exploding Bomb Injures 2 Youths", Jan 3, 1947. 145 W. 10th St. P.O. Box 419 Tracy, CA 95378-0419 (H-1).
- B-22. TRACY PRESS, "Vernalis Naval Air Base will be Discontinued", 28 September 1945. 145 W. 10th St. P.O. Box 419 Tracy, CA 95378-0419 (H-2)
- B-23. Aerial Photograph, 7 November 1943, Naval Air Station Alameda, Oblique of Vernalis Bombing Target No. 6 at an altitude of 5000 feet; NARA - Archives II - Still Pictures Branch; RG 80-G (Records of the Department of the Navy, 1798 - 1947); Series 1941 - 1945; 200705-200707; Box 476. (K-1)

- B-24. Aerial Photograph of Aerial Photograph of Vernalis Bombing Target No. 6 at 5000feet; Nov 1943; NARA - Archives II - Still Pictures Branch; RG 80-G (Records of the Department of the Navy, 1798 - 1947); Series 1941 - 1945; 200705- 200707; Box 476. (K-2)
- B-25. Aerial Photograph of Bomb Silhouette, June 1952, from the USDA Rural Development Office, Stockton, California. (K-3)
- B-26. Map, "Property Acquisition Map - Bombing Target" Naval Air Station, Alameda, California. NARA, Pacific Region (San Francisco, Ca); RG 181. (L-1)
- B-27. Map, "Owners Plot map" San JoaQuinn County.; San JoaQuinn Assessor's Office, 24 S. Hunter, Stockton, Ca. 95202. (L-2)

SECTION II

NATIONAL CAPITAL REGION ARCHIVES FINDINGS

PART A

POSITIVE FINDINGS

VERNALIS BOMBING TARGET NO. 6, CA

SECTION II
NATIONAL CAPITAL REGION ARCHIVES FINDINGS
PART A
POSITIVE FINDINGS

VERNALIS BOMBING TARGET NO. 6, CA

Also Researched Under: Vernalis Bombing Target, CA; Twelfth Naval District; U. S. Naval Air Station, Alameda, CA; and U. S. Naval Auxiliary Air Station, Vernalis, CA

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

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

Entry 2: General Correspondence, July 1942 - June 1946
Box 709

Letters Relative to Renewal of Lease, Naval Air Station, Vernalis

Entry 2: General Correspondence, July 1942 - June 1946
Box 1145

Correspondence Relative to Request for Abandonment of Vernalis Bombing Target
No. 6, 25 February - 4 April 1946

Entry 2: General Correspondence, July 1942 - June 1946
Box 1145

Correspondence Relative to Status of Vernalis Bombing Target No. 6, 25 February -
24 April 1946

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

Entry 1001: Naval Property Case Files, 1941 - 1958
Box 36

Appraisal Report for Navy Department - Twelfth Naval District, Dive Bombing
Target Range Near Vernalis, California

VERNALIS BOMBING TARGET NO. 6, CA

RG 72 (Records of the Bureau of Aeronautics)

Entry: Unclassified General Correspondence, 1948 - 1949
Box 409

Report, Annual Inspection, Former Naval Auxiliary Air Station, Vernalis, California, Including Fire Protection, General Yard Cleaning and Care of Grounds, Sewer System, Water Supply, Fences, Towers and Masts, Navigation Aid, Tetrahedron, Power Plants, Distribution Systems, Electrical Power, Communications System, and Buildings, Including Magazines

RG 74 (Records of the Bureau of Ordnance)

Entry: General Correspondence, Restricted, 1942
Box 435

Letter Relative to Establishment of Naval Air Station Alameda Outlying Fields, Naval Auxiliary Air Station, Vernalis, 28 October 1942

Entry: General Correspondence, Restricted, 1943
Box 468

Letter Relative to Naval Air Station, Alameda Outlying Field Magazine Requirements, Including Those for Naval Auxiliary Air Station, Vernalis, 23 June 1943

Entry: General Correspondence, Restricted, 1943
Box 468

Letter Requesting Assignment of Bombing Trainers to Naval Air Station Alameda Outlying Fields, Including Naval Auxiliary Air Station, Vernalis, 24 June 1943

Entry 1002A: Construction and Procurement Subject Files, 1945
Box 1201

Correspondence Requesting Ordnance Equipment, U. S. Naval Air Station, Alameda, 17 March 1945

Entry 1002A: Construction and Procurement Subject Files, 1945
Box 1201

Letter and Tables Relative to Deployment of Aircraft, Naval Air Bases, Twelfth Naval District, Including U. S. Naval Auxiliary Air Station, Vernalis, 7 May 1945

Entry 1002A: Construction and Procurement Subject Files, 1945
Box 1201

Letter Relative to Ammunition Shipments, U. S. Naval Air Station, Alameda, 30 March 1945

VERNALIS BOMBING TARGET NO. 6, CA

Entry 1002A: Construction and Procurement Subject Files, 1945

Box 1201

Letter Relative to Ammunition Stocks, U. S. Naval Air Station, Alameda, 28 April 1945

Entry 1002A: Construction and Procurement Subject Files, 1945

Box 1201

Letter Relative to Proposed Forward Firing Rocket Training Facilities at Naval Air Station, Alameda Auxiliary Air Stations, Including Auxiliary Naval Air Station, Vernalis, 2 March 1945

Entry 1002A: Construction and Procurement Subject Files, 1945

Box 1201

Letter Requesting Shipment of Inert Bombs, Fuzes, and Rockets for Instructional Purposes, U. S. Naval Air Station, Alameda, 26 February 1945

Entry 1002A: Construction and Procurement Subject Files, 1945

Box 1201

Telegram Relative to Urgent request for Shipment of Reticule Rocket and Glide Bombing, U. S. Naval Air Station, Alameda, 7 February 1945

Entry 1002A: Construction and Procurement Subject Files, 1945

Box 1202

Letter and Enclosure Relative to Disposition of Obsolete, Incomplete, and Unserviceable Aircraft Bomb Type Ammunition, U. S. Naval Air Station, Alameda, 11 August 1945

Entry 1002A: Construction and Procurement Subject Files, 1945

Box 1202

Letter Requesting Shipment of Miniature Practice Bombs, U. S. Naval Air Station, Alameda, 24 February 1945

Entry 1002A: Construction and Procurement Subject Files, 1945

Box 1203

Letter Relative to Proposed Modification of Practice Bomb, Signal, Mark 4, to Eliminate Fire Hazard When Dropped on Land, U. S. Naval Air Station, Alameda, 9 July 1945

Entry 1002A: Construction and Procurement Subject Files, 1945

Box 1204

Correspondence Relative to Inadequate Storage for Fire Arms and Other Essential Equipment, U. S. Naval Air Station, Alameda, 19 January 1945

VERNALIS BOMBING TARGET NO. 6, CA

Entry 1002A: Construction and Procurement Subject Files, 1945

Box 1204

Letter Relative to Ammunition Stock Recording for Rocket Body, TNT Loaded,
U. S. Naval Air Station, Alameda, 27 April 1945

Entry 1002B: Construction and Procurement Subject Files, 1946

Box 256

Naval Speedletter Relative to Disposition of Ordnance Material, U. S. Naval Air
Station, Alameda, 6 November 1946

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

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

Series 1210

Sheet 32-48

Rolled Map, Magazine Layout, Auxiliary Air Field, Vernalis, CA, 27 May 1943

Series 1210

Sheet 32-102

Rolled Map, Auxiliary Air Station, Vernalis, CA, Ordnance Facilities, Magazines,
Plot Plan, 21 March 1945

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

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

Series 1941 - 1945

200705 - 200707

Box 476

Three Aerial Views, Oblique, Auxiliary Air Station, Vernalis, California,
7 November 1943

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

Aviation History File

Air/Ground Establishments

Trenton thru Vero Beach - 1944

Naval Air Station, Vernalis, California, History, 8 June 1943 - 12 October 1945

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NATIONAL CAPITAL REGION ARCHIVES FINDINGS

PART B

NEGATIVE FINDINGS

VERNALIS BOMBING TARGET NO. 6, CA

SECTION II
NATIONAL CAPITAL REGION ARCHIVES FINDINGS
PART B
NEGATIVE FINDINGS

VERNALIS BOMBING TARGET NO. 6, CA

Also Researched Under: Vernalis Bombing Target, CA; Twelfth Naval District; U. S. Naval Air Station, Alameda, CA; and U. S. Naval Auxiliary Air Station, Vernalis, CA

***LIBRARY OF CONGRESS - GEOGRAPHY AND MAP DIVISION
WASHINGTON, DC***

Sanborn Map Collection
U. S. Department of the Interior, Geological Surveys

***LIBRARY OF CONGRESS - PRINTS AND PHOTOGRAPHS DIVISION
WASHINGTON, DC***

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

***MARINE CORPS HISTORICAL CENTER
WASHINGTON, DC***

Geographic Files

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

RG 26 (Records of the U. S. Coast Guard)
Entry 82C: Central Correspondence, 1942 - 1953
Entry 100: Real Property Surveys

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

VERNALIS BOMBING TARGET NO. 6, CA

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

Entry: General Correspondence, Shore Establishments, 1925 - 1942

Entry 45: Contract Correspondence, 1927 - 1942

RG 72 (Records of the Bureau of Aeronautics)

Entry 62: General Correspondence, 1925 - 1942

RG 74 (Records of the Bureau of Ordnance)

Entry 25: General Correspondence, 1936 - 1942

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

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

Entry 269: Base Maintenance Division, Minutes of Home Base Development Council

RG 48 (Records of the Office of the Secretary of the Interior)

Entry 749B: Central Classified Correspondence, 1933 - 1953

RG 69 (Records of the Works Progress Administration)

Entry: Central Decimal Files, 1935 - 1944

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

Entry: Correspondence Regarding Inter - Federal Agency Transfers of Facilities to and from the Navy Department

Entry: Navy Land Acquisition Report of the Real Estate Division, July 1 1940 - December 31, 1943

Entry: Report of Army Facilities Acquired in 1944

Entry: 74A: Plans and Charts of Harbors, Naval Bases, and Airfields, 1938 - 1954

RG 72 (Records of the Bureau of Aeronautics)

Entry: Unclassified General Correspondence, 1950

Entry: Unclassified General Correspondence, 1952

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Entry 75A: Records of Divisions and Offices, Office Services Division, Central Correspondence, Secret Correspondence, 1939 - 1947

Entry 1001A: Unclassified General Correspondence, 1948 - 1949

Entry 1003A: Confidential General Correspondence, 1048 - 1949

Entry 1004B: Secret General Correspondence, 1949

Entry 1021: Records Relating to Inactive Air Stations (Real Estate Files), 1943 - 1959

VERNALIS BOMBING TARGET NO. 6, CA

RG 74 (Records of the Bureau of Ordnance)

Entry 1001: General Correspondence, 1907 - 1949

Entry 1002C: Construction and Procurement Subject File, 1947

Entry 1003A: General Correspondence, Unclassified and Confidential, 1947 - 1948

Entry 1014: General Correspondence, 1948 - 1959

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

Entry 16: Formerly Security Classified General Correspondence of the CNO/Secretary of the Navy, 1940 - 1947

Entry 22: General Correspondence, 1926 - 1942

Entry 256: Index to Reports from Shore Establishments, December 1943 - May 1944

RG 127 (Records of the U. S. Marine Corps)

Entry 18A: General Correspondence, Office of the Commandant, 1939 - 1956

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

Entry 484C: Legislative and Liaison Division, Card Files and Approved WPA National Defense Projects, 1941 - 1942

Entry 484D: War Department Special Staff, Legislative and Liaison Division, Federal Agencies Branch, Federal Works Agency Project Files, 1940 - 1946

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

RG 218 (Records of the Joint Chiefs of Staff)

Entry: Series 1942 - 1959 (Geographic Files)

RG 225 (Records of Joint Army and Navy Boards)

Entry 4A: Army and Navy Munition Board Central Files, 1922 - 1941

RG 250 (Records of the Office of War Mobilization and Reconversion)

Entry 73: Federal Construction Projects, August - October 1946

RG 270 (Records of the War Assets Administration)

Entry 3: Office of Information Subject File, 1946 - 1949

RG 269 (Records of the General Services Administration)

Entry 62: Real Property Disposal Case Files, 1945 - 1953

RG 291 (Records of the Federal Property Resource Service)

Entry 5: Real Property Disposal Case Files, 1962

RG 334 (Records of Interservice Agencies)

Entry 15: Records of the Armed Services Explosives Safety Board - Explosives Reports, 1939 - 1948

VERNALIS BOMBING TARGET NO. 6, CA

RG 428 (General Records of the Department of the Navy)

Entry 4: Formerly Security Classified DCNO 05 (Air) Chronological File ("Pinks"),
January 1949 – June 1950

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 of the Federal Property Council

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

RG 18 (Record of the Army Air Corps)

RG 30 (Record of the Bureau of Public Roads)

RG 74 (Record of the Bureau of Ordnance)

RG 373 (Record of the Defense Intelligence Agency)

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

RG 330 (Records of the Office of the Secretary of Defense)

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 181 (Records of the Naval Districts and Shore Establishments)

RG 428 (General Records of the Department of the Navy)

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

Command Histories

**NAVAL HISTORICAL CENTER – NAVY DEPARTMENT LIBRARY
WASHINGTON, DC**

United States Naval Administrative Histories of WW II

SECTION III
REGIONAL NATIONAL ARCHIVES FINDINGS
PART A
POSITIVE FINDINGS

VERNALIS BOMBING TARGET #6

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

RG 181, Records of Naval Districts and Shore Establishments
District Planning Office
Box #38 (N1-9)
Memo, Subject: Status of Naval Air Bases Activities,
1 Feb 1950

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

RG 181, Records of Naval Districts and Shore Establishments
Accession #NN373-91 (181-61-0096)
Public Works Office
Box #2
Memo, Subject: Acquisition of Bombing Target Sites; Request
for, 7 Feb 1951
Memo, Subject: Requirements for Additional Property; Report
of, 9 Feb 1951
Memo, Subject: Acquisition of Bombing Target Sites; Request
for, 27 Feb 1951
Memo, Subject: Acquisition of Bombing Target Sites; Request
for, 13 Mar 1951

Accession #NN373-91 (181-63-0096)
Box #12
Gunnery Range and Target Areas Released Since WWII - 12 ND,
undated
Memo, Subject: Bombing Targets - Dis-establishment of,
8 Jan 1946
Memo, Subject: Revised Planning Estimate for Roll-up of
Continental Air Stations, Satellite and Outlying Fields,
24 Sep 1945, w/enclosure
Memo, Subject: Aviation Bombing Targets, Gunnery and Rocket
Ranges, and Boat Facilities in Excess of Post-War
Aviation Requirements - Comment on, 2 Feb 1946,
w/enclosure
Status of Facilities, Naval Air Bases, 12th ND, 15 Feb 1947

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REGIONAL NATIONAL ARCHIVES FINDINGS
PART B
NEGATIVE FINDINGS

VERNALIS BOMBING TARGET #6

**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 77, Records of the Office the Chief of Engineers
All Entries
Nothing Found
- RG 156, Records of the Office 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
Accession #9NSS-121-87-001
Box #11
Nothing of Value to this ASR 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 181, Records of Naval Districts and Shore Establishments

Accession #93-006 (181-67-0789)

Box #s 1 and 2

Nothing of Value to This ASR Found

Accession #93-007 (181-68-0137)

Box #s 1, 2, and 3

Nothing of Value to This ASR Found

Accession #NN373-91 (181-63-0096)

Box #s 1 thru 11

Nothing of Value to This ASR Found

Accession #NN373-91 (181-61-0096)

Box #s 1 thru 12

Nothing of Value to This ASR 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
Vernalis Bombing Target No. 6
San Joaquin, California
Project Number J09CA747301

APPENDIX C

GLOSSARY

APPENDIX C

GLOSSARY

TABLE OF CONTENTS

AKA	Also known As
BD/DR	Building Demolition Debris Removal
CENAE	Corps of Engineers, New England District
COE	Corps of Engineers
CON/HTRW	Containerized/Hazardous Toxic Radioactive Waste
CWM	Chemical Warfare Materiel
DA	Department of the Army
DERP	Defense Environmental Restoration Program
DOD	Department of Defense
EOD	Explosive Ordnance Disposal
EE/CA	Engineering Evaluation/Cost Analysis
EPA	Environmental Protection Agency
OE	Explosive Ordnance
FDE	Findings and Determination of Eligibility
FUDS	Formerly Used Defense Site (s)
HE	High Explosive
HTRW	Hazardous, Toxic, and Radiological Waste
HTW	Hazardous and Toxic Waste
INPR	Inventory Project Report
M	Model Number

NAAF	Naval Auxiliary Air Facility
NDAI	No DOD Action Indicated
OE	Ordnance and Explosives
PA	Preliminary assessment
PBR	Precision / Practice Bombing Range
PN	Project Number
QASAS	Quality Assurance Specialist (Ammunition Surveillance)
RD/RA	Remedial Design/Removal Action
SI	Site Investigation or Site Inspection
USA	U.S. Army
USACE	U.S. Army Corps of Engineers
USAESCH	U.S. Army Engineering and Support Center, Huntsville
USATCES	U.S. Army Technical Center for Explosives Safety
UXO	Unexploded Ordnance
WD	War Department
WW	WW

Ordnance and Explosives
Archives Search Report
For
Vernalis Bombing Target No. 6
San Joaquin, California
Project Number J09CA747301

APPENDIX D

TEXTS / MANUALS

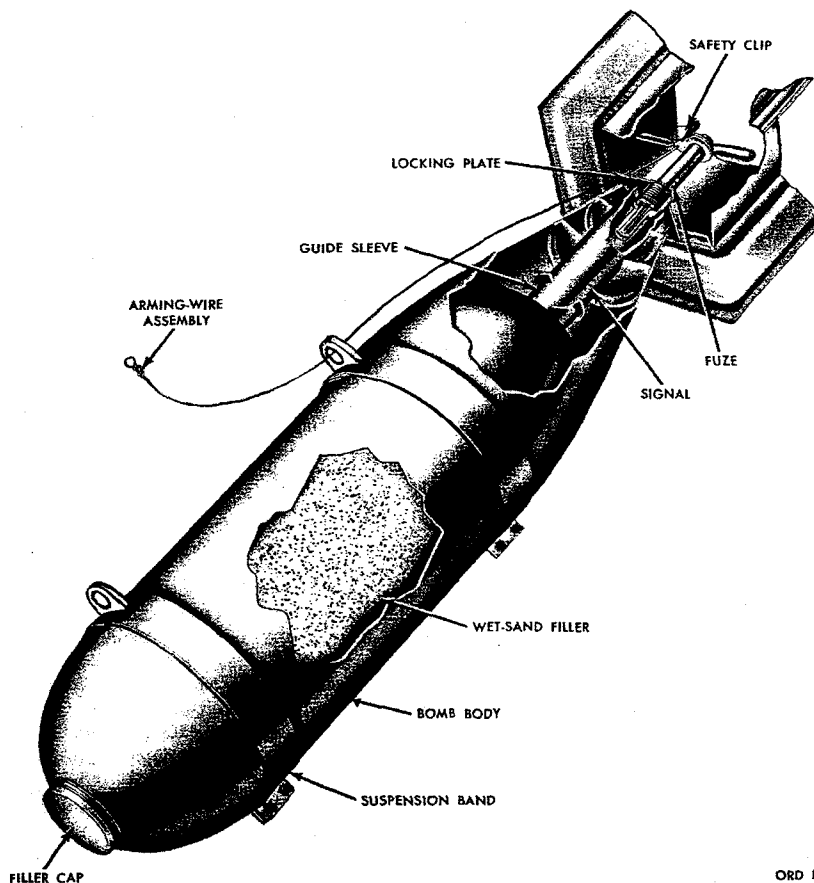
APPENDIX D

TEXTS / MANUALS

Table of Contents

- D-1 Description / Drawings, 100 pound practice bomb, Mk 15, TM 9-1325-200, Bombs and Bomb Components, April 1966. (B-*)
- D-2 Description / Drawings, Miniature 13-pound practice bomb, Mk 19/ Mk 23, NAVSEA OP 1664 vol. 2, U.S. Explosive Ordnance, February 1954. (B-*)

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

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

References: TM 9-1325-200, *Bombs and Bomb Components*, April 1966; NAVSEA OP 1664 Volume 2, *U.S. Explosive Ordnance*, February 1954

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.

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

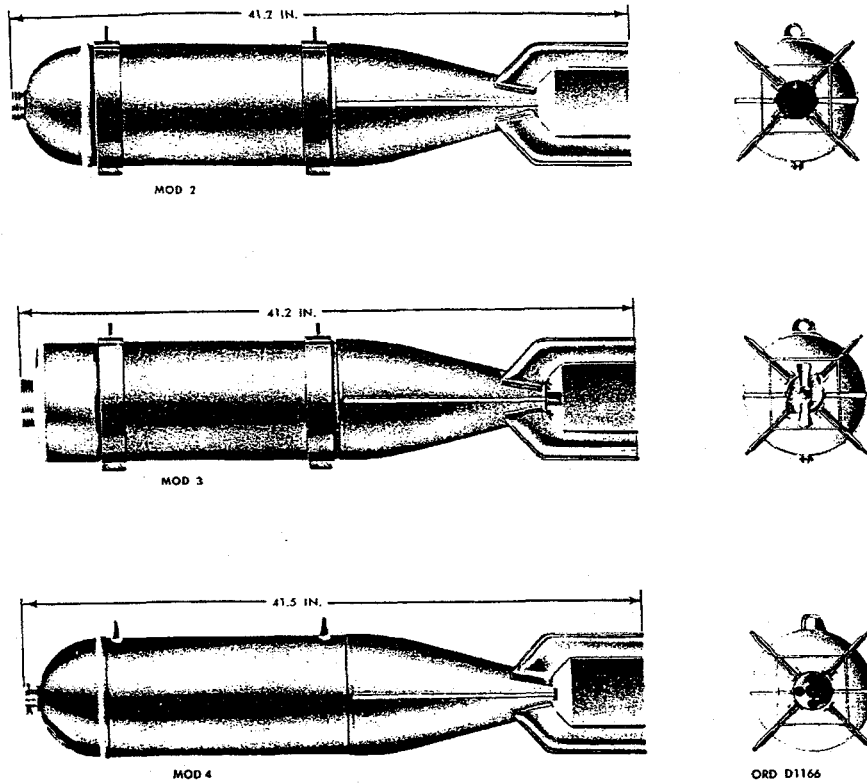


Figure 2-62. Bomb, practice: 100-pound, MK15 Mods 2, 3, and 4.

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

Part 6 — Chapter 19

PRACTICE BOMBS

Section I — NAVY PRACTICE BOMBS

Miniature 3-pound Mk 3, Mk 4, AN-Mk5, and AN-Mk 23; and 4.5-pound AN-Mk 43

Over-all length, inches.....8.25
 Diameter, inches2.18
 Color Unpainted

These small, cast-alloy bombs have a tube along their longitudinal axis which houses the Signal Cartridge AM-Mk 4 or Mk 5, a pyrotechnic charge for spotting purposes. The differences between these bombs are matters of size. The Miniature Practice Bomb AN-Mk 43 weighs 4.5 pounds; the others of this series weigh 3.0 pounds.

Miniature 13-pound Mk 19 or Mk 19 Mod 1

This bomb is like the other miniatures, except that it is larger. Its length is 13.0 inches, while its weight is 13.0 pounds.

"Old" Series Practice Bombs (Obsolete or being replaced)

No fuzes are used in these bombs, and they

contain no spotting charge, being filled either with water or with wet sand. The filling is usually stencilled on the body of the bomb. To prevent freezing and splitting of cases at high altitudes, anti-freeze is added. To improve spotting of hits, a spotting dye is also used.

"New" Series Practice Bombs

Mk 15 Mod 3 uses Spotting Signal Mk 7; the others use Mk 6 Mod 0.

This series bomb is a welded sheet-steel light-case design having identical dimensions to AN standard G.P. bombs, and uses AN standard G.P. bomb tails. The bomb has, welded to its body, two suspension lugs spaced 14.0 inches apart. Seven threaded recesses, located on the periphery at the approximate center of gravity, are for various hoisting conditions. At 90 degrees, on each side of the suspension lugs and slightly before the hoisting recesses, are threaded openings to receive trunnions.

By means of a strap, the appropriate practice bomb signal, Mk 6 or Mk 7, may be at-

"OLD" SERIES PRACTICE BOMBS—DATA

		Length	Diameter	Color	Total Weight	
					Water-Filled	Wet-Sand-Filled
100-lb.	Mk 7	41.2"	8.0"	Black	48.5 #	83.0 #
100-lb.	Mk 15 Mod 2	41.2"	8.0"	Black	56.0 #	95.0 #
500-lb.	Mk 5	67.3"	16.0"	Black	360.0 #	500.0 #
500-lb.	Mk 11	61.8"	15.0"	Black	268.0 #	448.0 #
500-lb.	Mk 21	61.8"	15.0"	Black	273.0 #	489.0 #
1,000-lb.	Mk 7	80.0"	19.0"	Black	580.0 #	1,000.0 #
1,000-lb.	Mk 22	79.0"	19.0"	Black	573.0 #	1,013.7 #

D-2

"NEW" SERIES PRACTICE BOMBS—DATA

		Length	Diameter	Water-Loaded	Sand-Loaded
100-lb.	Mk 15 Mod 3	41.2"	8.0"	64.25 #	100 #
500-lb.	Mk 65 Mod 0	56.6"	14.0"	220.0 #	388.0 #
1,000-lb.	Mk 66 Mod 0	67.0"	18.6"	474.0 #	834.0 #
2,000-lb.	Mk 67 Mod 0	90.15"	23"	..	733.0 #

tached to the tail assembly with the forward end of the signal seated in a recess in the after end of the bomb body.

A flat-nose attachment has been designed for use with the Practice Bomb Mk 15 Mod 3 for anti-submarine bombing practice. The flat nose is installed by removing the nose-filling cap, slipping the attachment over the nose of the bomb, and then screwing the filling cap down tightly by hand to hold the attachment in place. The flat nose will prevent ricochet at entrance angles as low as 9°.

The 2,000-pound-size container was designed for an incendiary or practice filler but, thus far, it is approved by the Bureau of Ordnance for practice filling, sand, only. As designed for incendiary loads, it would take a nose fuze, the Burster Mk 1, and the Igniter Mk 40; however this is subject to change before Bureau approval of the bomb as an incendiary. The Mk 67 has standard suspension lugs and provision for trunnions.

Practice Bomb Signals (Navy)

AN-Mk 4 and AN-Mk 5: For the miniature practice bombs, these signals allow observers to spot the impact of salvos. The Practice Signal Cartridge AN-Mk 4 is an extra long 10-gauge shotgun shell which is inserted in the nose of the bomb. On impact, the cartridge is fired, expelling a large puff of black smoke from the tail of the bomb. The firing device consists of two shallow cups separated by a spacer, the firing pin extending through the bottom of one cup. The Signal Cartridge Mk 5 is the same size but

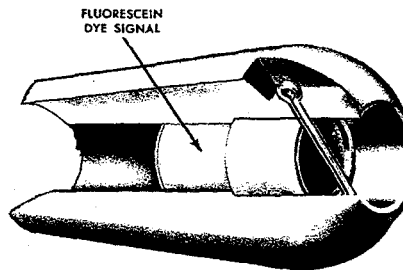
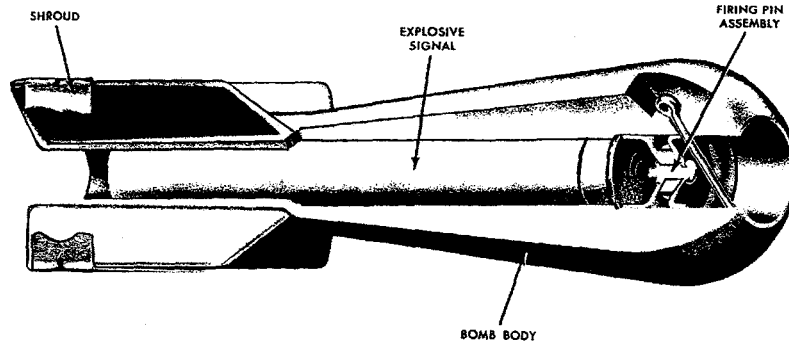
filled with fluorescein, which stains the water, giving a spot of longer duration than the AN-Mk 4.

Mk 6 Mod 0 and Mk 7 Mod 0: These signals are essentially cans of black powder fitted with the Fuze Mk 247. The Mk 6 is used in the Practice Bombs Mk 65 and Mk 66; the Mk 7 in the Bomb Mk 15 Mod 3. They are attached to the rear of the bomb by brackets or a strap arrangement. The Signal Mk 7 is 13.08 inches long and 2 inches in diameter. It has a total weight of 2.5 pounds. It has a filling of one pound of black powder. The Mk 6 is generally the same, except that the fuze is mounted off-center and the black-powder filling weighs two pounds.

The Fuze Mk 247 consists of an inertia weight held by a jump-out pin and a creep spring. The detonator is a blank caliber .38 cartridge. When the signal is placed in the bomb, the firing pin assembly is unscrewed and a blank caliber .38 cartridge inserted in the cartridge chamber. The firing assembly is then re-inserted and secured by means of a lock nut. At the time of loading the bomb into the plane, the arming wire is inserted through the jump-out pin, and the safety pin is then removed. Upon release from the plane, the arming wire is withdrawn, allowing the jump-out pin to be thrown free, arming the signal. Upon impact, the weighted firing pin overcomes the creep spring and impinges upon the primer of the caliber .38 blank cartridge, which, in turn, ignites the main black-powder charge.

MINIATURE PRACTICE BOMBS

AN-Mk 5 Mod 1, AN-Mk 23, AN-Mk 43

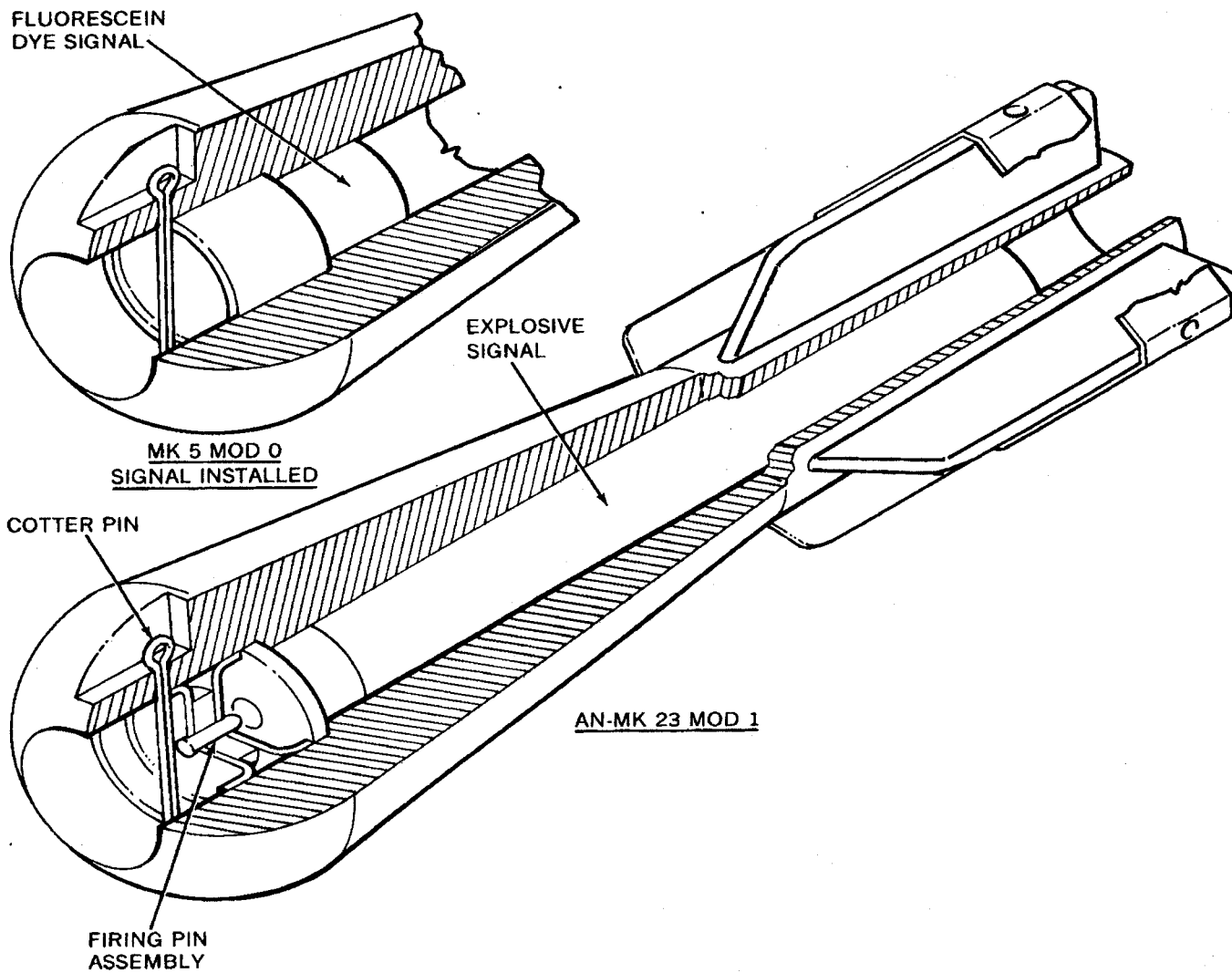


ORD D1160

Description. These bombs are used for low-altitude horizontal, or dive-bombing practice. The three bombs are similar in physical appearance, but differ basically in the metal used to cast the body. Bombs are used with the AN-Mk 4 practice bomb signal that is a blank 10-gauge shotgun shell (extended length). Signals contain a black powder expelling charge and a red phosphorous pyrotechnic mixture. These bombs also are used with the MK5 signal that contains a fluorescein dye and is actuated by impact on water. When the Mk5 signal is installed, the firing pin assembly is not used.

Over-all length	8.25 inches
Body Diameter	2.18 inches
Fin Dimension	2.5 inches
Weight	AN-Mk 5 Mod 1 - 2 lb. 11 oz. \pm 1 oz
	AN-Mk 23 - 3 lb. \pm 2 oz
	AN-Mk 43 - 4 lb. 7 oz. \pm 2 oz.
Signal	AN-Mk 4, Black powder/pyro- Technic charge Mk 5, Fluorescein dye

Reference: OP 1280, *Aircraft Bombs*, February 1945; TM 9-1325-200, *Bombs and Bomb Components*, April 1966



Ordnance and Explosives
Archives Search Report
For
Vernalis Bombing Target No. 6
San Joaquin, California
Project Number J09CA747301

APPENDIX E

REPORTS / STUDIES

APPENDIX E

REPORTS / STUDIES

Table of Contents

E-1 INPR for the Site Vernalis Bombing Target No. 6,
J09CA7473, 21 September 1999 (B-*)



DEPARTMENT OF THE ARMY
SOUTH PACIFIC DIVISION, CORPS OF ENGINEERS
333 Market Street, Room 923
San Francisco, California 94105-2195

21 SEP 1999

REPLY TO
ATTENTION OF:

CESPD-PM-R

11-164-99

MEMORANDUM FOR

Commander, U.S. Army Corps of Engineers, 20 Massachusetts Avenue,
N. W., Washington, DC 20314-1000

✓ Commander, U.S. Army Engineering Center, Huntsville,
P.O. Box 1600, Huntsville, Alabama 35807-4301

SUBJECT: Defense Environmental Restoration Program For Formerly
Used Defense Sites (DERP-FUDS), Inventory Project Report (INPR)
for Vernalis Bombing Target No. 6, California, Site No.
J09CA747300

1. References:

a. Memorandum CEMP-RF, 17 Jan 1997, subject: Defense
Environmental Restoration Program for Formerly Used Defense Sites
(DERP-FUDS) - Delegation of Preliminary Assessment of Eligibility
/Inventory Project Report (PAE/INPR), Project Approvals to
Division Commanders.

b. DERP-FUDS Program Manual, U. S. Army Corps of Engineers,
Directorate of Military Programs, Division of Environmental
Restoration, Washington, D.C., July 96.

c. Memorandum CEMP-RF, 16 Oct 96, subject: Defense
Environmental Restoration Program for Formerly Used Defense Sites
(DERP-FUDS) - Preliminary Assessment Funding.

2. The enclosed INPR for Vernalis Bombing Target No. 6 is
approved by SPD in accordance with Ref 1a, 1b, and 1c. The INPR
is being forwarded to you for your information and appropriate
action. The site has been determined to be a formerly used
defense site and is eligible for DERP-FUDS. The proposed OE
project is also eligible.

E-1

ENC 1

CESPD-PM-R

SUBJECT: Defense Environmental Restoration Program For Formerly -
Used Defense Sites (DERP-FUDS), Inventory Project Report (INPR)
for Vernalis Bombing Target No. 6, California, Site No.
J09CA747300

3. This memorandum authorizes the OE (J09CA747301) project. The
OE project is referred to Huntsville Army Engineering Center as
recommended in the Inventory Project Report.

Encl

Peter T. Madsen
PETER T. MADSEN, COL EN
80ACOL(P), EN
Commanding



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, SACRAMENTO
CORPS OF ENGINEERS
1325 J STREET
SACRAMENTO, CALIFORNIA 95814-2822

CESPK-PM-H (200-1c)

8 September 1999

MEMORANDUM FOR Commander, South Pacific Division,
ATTN: CESPD-PM-R (Vincent Del Greco)


SUBJECT: Inventory Project Report for the Former Defense
Property at Vernalis Bombing Target No. 6, California
Property No. J09CA7473.

1. The enclosed Inventory Project Report (INPR) report addresses our current evaluation of the subject property. The report is at enclosure 1. This report was prepared as a result of research conducted for other sites which indicated that additional investigation was required. This additional investigation found that an OE Project was needed. The enclosed report supercedes any previously submitted report of the property.

2. I recommend that you approve the proposed OE Project and provide a copy of the report to the Huntsville Design Center for their records.

FOR THE COMMANDER:

Encl

for 
MARK C. CHARLTON
Chief, Programs and Project
Management Division

Ordnance and Explosives
Archives Search Report
For
Vernalis Bombing Target No. 6
San Joaquin, California
Project Number J09CA747301

APPENDIX F

LETTERS / MEMORANDUMS / MISCELLANEOUS ITEMS

N A A S

VERNALIS, CALIFORNIA

HISTORY

8 June 43 - 12 Oct 45

IN REPLY ADDRESS
COMMANDANT
TWELFTH NAVAL DISTRICT
AND REFER TO

OFFICE OF COMMANDANT
TWELFTH NAVAL DISTRICT
SAN FRANCISCO, 2, CALIFORNIA

MES



ND12-12-ce
(SC)A12-1
Serial 05754

~~CONFIDENTIAL~~

2nd Endorsement on
NAAS, Vernalis ltr NA27-10355-(10-Sr)
A12-1, Ser 597 dtd 12 Oct 1945.

~~CONFIDENTIAL~~

29 October 1945

From: Commandant Twelfth Naval District
To: CNO (Op-33-J-6)
Subject: Unit History, NAAS, Vernalis; forwarding of.
1. Forwarded.

C. E. Odegaard

C. E. ODEGAARD
By direction of the Commandant

cc: NAAS, Vernalis

15
A12-1/11/45
1.1
950655

A12-1

NAB12-19-mk(mlm), A12, N1-9(Vern).

Serial: 0426

24 OCT 1945

~~CONFIDENTIAL~~

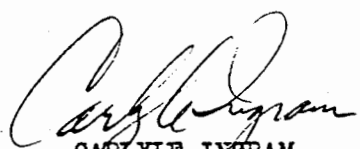
End-1 (On NAAS, Vernalis, ltr NA27-10355-(10-Sr), A12-1, Ser 597 dtd 12 Oct 1945.)

To: CNO (Op-33-J-6).
Via: ComTwelve.

Subj: Unit History, NAAS, Vernalis; forwarding of.

1. Forwarded.

By direction ComNavAirBases:


CARLYLE INGRAM
Chief Staff Officer
Naval Air Bases, 12ND
NAS, Alameda

Handwritten notes:
G.
2-11-45
2-11-45
Com 2-11-45

cc: NAAS, Vernalis.

IN REPLY REFER

TO NO.

NA27-10355-(10-Sr)

A-12

597

NAVAL AIR BASES, 12th N.D.
~~NAVAL AIR CENTER, ALAMEDA~~

U. S. NAVAL AUXILIARY AIR STATION
VERNALIS, CALIFORNIA

12 October 1945

To: Office of Chief of Naval Operations, Aviation History Unit,
Op-33-J-6

Via: (1) ComNAB, 12ND, NAS, Alameda, Calif.
(2) ComTWELVE.

Subj: Unit History, NAAS, Vernalis, California.

Ref: (a) CNO ltr. Op-33-J-6-JEJ, Serial 118433 dtd 14 March 1945.
(b) Manual for Historical Officers, NavAer 00-25Q-26.
(c) NAB ltr. Serial 2106 dtd 24 March 1945.

1. In accordance with references (a) and (b), Unit History of NAAS, Vernalis, California is submitted herewith as enclosure 1.

2. One extra copy of subject history is enclosed for retention by ComTWELVE Historical Officer as required by reference (c).

H. R. Bowes
H. R. BOWES,
Comdr., USN
Commanding Officer

Encl.

1. (HW) Unit History

~~CONFIDENTIAL~~

U. S. NAVAL AUXILIARY AIR STATION
VERNALIS, CALIFORNIA

UNIT HISTORY

CHRONOLOGY

United States Naval Auxiliary Air Station, Vernalis, California was commissioned on 8 June 1943, at a ceremony attended by Captain Frank McCrary, USN, Commanding Officer of Naval Air Station, Alameda, and officers of his staff. At the conclusion of the commissioning procedure, Lieutenant E. A. Quarterman, USNR, of Modesto, California, assumed the duties of Officer-in-Charge of the new Station. Lieutenant W. B. Taylor, USNR, of Jackson Heights, Long Island, New York, was named Assistant Officer-in-Charge.

On 9 October 1944, Lieutenant Commander William Janeshek, USN, of Port Washington, Wisconsin, was named Commanding Officer to relieve Lieutenant E. A. Quarterman, and Lieutenant Commander A. P. Kolonie, USNR, of Burlingame, California, was named as the Executive Officer.

411
- 8 March 45
Died
after
the
war as
a TEST
PILOT!

Lieutenant Commander Janeshek remained in command until 26 March 1945 when he was relieved by Commander Harvey R. Bowes, USN, of Modesto, California, who remains in command of the station at the present time with Lieutenant Commander Kolonie as Executive Officer.

NARRATIVE

Naval Auxiliary Air Station at Vernalis was constructed to meet the demand for additional training and station facilities in the rapidly-expanding aeronautical organization of the 12th Naval District. The obvious and imperative need was to establish small auxiliary units sufficiently close to Naval Air Station, Alameda, to function smoothly and yet far enough away from the heavily-populated industrial areas of the San Francisco Bay District. Upon the recommendation of the authorities of Naval Air Station, Alameda, a site was chosen in San Joaquin and Stanislaus Counties some 5 miles northwest of the town of Vernalis. The particular location combined the favorable features of year-round flying weather in a flat valley area which rendered airport construction work relatively simple and provided the necessary facilities at a distance of 60 air miles from Alameda.

Under authority of applicable Acts of Congress*, 700 acres of land were purchased outright from civilian sources** for \$33,300 and in June, 1942, construction work was started on a 500' x 4000' runway. In November of that year, contracts were let for the construction of the first and most essential buildings, additional runway area and gasoline storage requirements. At a later date, an additional 160 acres were acquired from John Gallagher

for use as a Dive Bombing Range. Construction work continued after the commissioning of the station and up until the end of the war in the Pacific. On 15 August 1945, a contract for a Forward Firing Rocket Loading Platform was cancelled shortly after the work had been started.

In the organization pattern, Naval Auxiliary Air Station, Vernalis, originally functioned as a subsidiary of Naval Air Station, Alameda. Later, however, with the creation of the command, Commander, Naval Air Bases, the station at Vernalis was placed under the jurisdiction of that command.

At the time of its inception, Naval Auxiliary Air Station, Vernalis, was intended to support the operations of two bombing squadrons (Vice OpNav Letter of 10 December 1942). In accordance with this original plan, it was used by PB4Y's and PV's. Subsequently, when more suitable fields became available for the heavy planes and Fleet requirements were adjusted to current needs, the station function was changed to support the operations of carrier-based squadrons which were completing advanced training and to base such squadrons pending their assignment and arrival of transportation. In this latter capacity, the station was used as a base by Air Groups, Torpedo, Fighter, Bomber and Composite Squadrons. The normal messing

and berthing allowance of the station is 333 Commissioned Officers, 2386 Enlisted Men.

At the time of writing, the station is in a state of flux which will vary with the requirements of ComFair, Alameda. Present indications are that the station will be officially de-commissioned on 15 December 1945 and enter upon a Care-taker Status as of that date.

* Act of Congress approved June 15, 1940 (Public No. 635, 76th Congress; 54 statute 400) and Act of Congress approved June 26, 1940 (Public No. 667, 76th Congress; 54 statute, 599) and pursuant to the Acts of August 1, 1888 (25 Statute 357, USC, Title 40 Sec 1421 USC, Title 40 Sec 258a and supplementary and amendatory Acts.

** Edward Murphy et al 639.34 acres for \$32,400
Carroll Bertch 60.1 acres for 900

11 October 1945

NOY	Spec.	Project	Contractor	Cost
6469	11431	Additional Paving and Drainage	Macco Bros.	\$119,800.00
6709	11617	Arch Type Magazine	Stalts Inc.	66,150.00
6870	11760	Additional Runway	Union Paving Co.	241,800.00
7584	12383	Officers' Recreation Building	C. W. Swanson	16,703.00
6639	11557	Outdoor Recreation Facilities	H. L. Parker	19,043.00
7531	12339	Gasoline loading stands	McDonald & Kolin	4,189.00
7532	12340	Wells and Pumps	Pacific Electric & Mach- ine Co.	10,700.00
4165	CPFF	General Construction	Johnson Brake & Pipe	641,455.00
5966	CPFF	General Construction	Johnson Brake & Pipe	6,155.00
6517	13175	Weaving Surface for Roads	Standard Materials	12,395.00
6574	13223	Extend Storehouses and Runway	Geist Construction Construct- ion Co.	25,907.00
6968	13501	Radio Transmitter Bldg.	Geist Construction Elect. Co.	12,533.00
6977	13651	Temporary Bldg. for Laundry Facilities	Wells P. Construction	16,520.00
9590	14109	Barracks storehouses, Training Building	McLellan Construction & Sellers	131,250.00
9632	14310	Expansion of Facilities	Johnson Brake & Pipe	441,700.00
9634	14312	Gasoline Storage	General Bldg. Construct- ion Co.	22,007.00
10515	14920	Permanent Air Port Lighting	Blifford Elect. Co.	16,092.00
11300	16081	Extension to Welfare Bldg.	G. W. Williams	16,992.00
11397	16167	Changes to Elect. Distribution System	Geist Construction Elect. Co.	10,410.00
11936	16203	Semi Permanent light marking of Runways	Frank Electric Co.	5,250.00
			TOTAL	12,137,492.00

U.S. NAVAL AUXILIARY AIR STATION, VERNALIS, CALIFORNIA

In full operating status on 1 September 1945, ^{26/} advice was received on 6 September 1945, that effective 15 October 1945, NAAS VERNALIS was to be reduced to caretaker status, i.e., a non-operating condition requiring a minimum strength personnel unit, the mission of which is to maintain physical U.S. possession of the property involved, and to guard such property against deterioration, damage, looting and theft. On 5 November 1945, the Chief of ^{43/} Naval Operations advised that on 15 March 1946 the post war status of this activity was to be surplus. The transition to caretaker status was accomplished on 15 March 1946 and a naval officer, as caretaker, posted. Declared to WAA on 15 March 1946. Disestablished on 15 May 1946. The WAA assumed custody on 17 October 1946, this command relinquished jurisdiction and removed caretaker.

NAVY DEPARTMENT
BUREAU OF AERONAUTICS
WASHINGTON
11/3/42

Aer-PL-56-PAP
NL-9/NA27
NA27

NAVY DEPARTMENT
BUREAU OF AERONAUTICS
WASHINGTON

28 October 1942

RESTRICTED

151078

From: Director, Planning Division.
To: Financial, Office of Assistant Chief.
Progress, Office of Assistant Chief.
Administration, Office of Assistant Chief.
Director, Personnel Division.
Director, Flight Division.
Director, Training Division.
Director, Maintenance Division.
Director, Material Division.
Director, Marine Corps (Aviation).

Subject: Outlying Fields of Naval Air Station, Alameda, California -
Establishment of.

Reference: (a) Budocks conf. 1st end. NA27/NL-9 Serial Y&D 5650 dated
October 13, 1942 with SecNav approval to BuAer conf.
ltr. Aer-Ma-3121-Hm, NL-9/NA27, NA27 Serial 41485 to
VCNO via Budocks dated October 5, 1942 with enclosures.

Enclosure: (A) Schedules - Annexes Baker, Cast, Dog, and Fox through
(H.W.) Inter.

1. Reference (a) approved the establishment of the following
outlying auxiliary fields to complement the facilities of Naval Air Station,
Alameda, California:

Santa Rosa	12 VPB (Land)
Vernalis	12 VPB "
Crows Landing	24 VPB "
Cotati	2 CV Squadrons
Hollister	2 CV "

The above facilities are scheduled for initial operation about February 1,
1943. Full scale operation is planned to be reached at each field by April
1, 1943.

2. More extensive supporting facilities will be available at
the Naval Air Station, Alameda, California.

3. Cognizant divisions shall take the necessary action to outfit
the above auxiliary fields in accordance with the schedules enclosed herewith.

H. B. Sallada
H. B. SALLADA
CAPTAIN, USN

UNITED STATES PACIFIC FLEET

FLEET AIR ALAMEDA

Q T /JGD:12-egb

U. S. Naval Air Station
Alameda, California

Serial : 746

2 Feb 1946

From: Commander Fleet Air, Alameda.
To: Commandant, Twelfth Naval District.

Subject: Aviation Bombing Targets, Gunnery and Rocket Ranges
and Boat Facilities in Excess of Post-War Aviation
Requirements - Comment on.

Reference: (a) COMTWELFTH Ltr. WD12-80-ge N1-13/E2-14 Serial 11209
dated 28 January 1946

Enclosure: (A) Reference (a).

1. As requested in reference (a), enclosure 1 of reference
(a) has been reviewed.

2. The following comments are offered:

- (a) Target No. 3, San Mateo Bridge - No longer needed.
- (b) Target No. 5, Hollister - No longer needed.
- (c) Target No. 6, Vernalis - It is requested that this
target be retained until June 1946.
- (d) Target No. 7, Crow's Landing - Enclosure 1 lists
this incorrectly as Target No. 9. Target No. 7,
Crow's Landing, is no longer needed; Target No. 9,
Petaluma, is needed permanently.
- (e) Target No. 10, Antioch - It is requested that this
target be retained until June, 1946.
- (f) Target No. 12, Big Lagoon - No longer needed.
- (g) Target No. 13, Humboldt Bay - No longer needed.
- (h) Target No. 17, Barmond - No longer needed.
- (i) Target No. 19, Fallon Area 3, - No longer needed.
- (j) Target No. 20, Schurz - No longer needed.

air Force.

35

QT/JGH/12-rgb

United States Pacific Fleet

Serial: 746

FLEET AIR ALAMEDA

2 Feb 1946

Subject: Aviation Bombing Targets, Gunnery and Rocket Ranges and Boat Facilities in Excess of Post-War Aviation Requirements - Comment on.

- (k) Target No. 21, Arcata - No longer needed.
- (l) Target No. 22, Gustine - No longer needed.
- (m) Target No. 23, Madera - This is an Army target which was to be used in accordance with a local agreement with the Army. However, it is not necessary for our purposes any longer.
- (n) Target No. 25, Levelock Area 1 - No longer needed.
- (o) Target No. 26, Levelock Area 2 - No longer needed.
- (p) Target No. 27, Levelock Area 3 - No longer needed.
- (q) Target No. 29, Jenner - It is requested that this target be retained until June 1946.
- (r) Target No. 30, Stewart's Point - No longer needed.
- ✓(s) Monterey Bay Torpedo Range - No longer needed and no land involved.

(s/ W. M. McDade
(Acting)

Reference (a) ComFair Alameda ltr
QT/21-ha (01443) of
10 Sept 45 to CNO.
End-1 ComFair West
Coast QT/90-wow Ser
93448 of 17 Sept 45
to CNO.

End-2 CNO Op-35-22 NW
(SC)A16-3/EN ser 022435
of 8 Oct 45 to BuAer.

End-3 BuAer Aer MA-3-MIC
F41-10 A16(6) C28441 of
27 Oct 45 to BuDocks

Reference (b) ComNAB 12ND ltr NAB12-
92-SR L11-3 H2-14 S82
ser. 6685 of 10 Oct. 45
to CNO.

End-1 CNO Op-515-W-AOL
SO 10 16-76 Ser 60P515
of 23 Oct 45 to BuAer

End-2 Aer-MA-3-RTB N12
N15-EN3 Ser 297180 of 31
Oct. 45 to BuDocks

Reference (c) Com12 ltr ND12-80-Gn
N1-13/H2-14 ser 63570
(Nd-8000) of 21 Sept.
45 to BuDocks.

End-1 BuDocks ND12/N1-13
F-5-5/JCH-am L29-7-31 of
4 Oct. 45 to CNO.

End-2 CNO Op415-4B2-pjp
SO 10 5 52 Ser 692830 of
15 Oct 45 to BuDocks.

Reference (d) ComFair Alameda ltr
QT/21-alre ser 01633 conf.
of 27 Oct 45 to BuDocks

Reference (b) End-1 BuDocks ND12/N1-13
F-5-5/ALS/atd of 17 Dec 45
to CNO

Reference (e) ComNAB 12ND ltr NAB12-80-Ss
N1-13 ser 7296 of 9 Nov 45
to BuDocks.

End-1 Com12 ND12-80-Gn,
L4-3/ND12(2) Ser. 81923

(McK-12325) of 5 Dec 45
to BuDocks.

APPROVALS

Target name and number	Lease or Civil No.	BuDocks R.E. File No.	Com12 R.E. File No. and desig.	ComFairAlameda	Fleet Air West Coast	ComNAB 12ND	Com12	CNO	BuAer	Remar
Target No. 3 San Mateo Bridge				(a)	(a)--1	(b)	((b)-1 (a)-2	(b)-2	No lar involv
Target No. 5 Hollister	Noy(R)-35804 Former Civil # 22698-G	L5-7-Ho	2400(?) Hollister	(a)	(a)--1	(b)		(b)-1 (a)-2	(b)-2 (a)-3	440 ac

APPROVALS

Target Name and Number	Lease or Civil No.	BuDocks R.E. File No.	Com12 R.E. File No. & Designation	ComFairlameda	Fleet Air West Coast	ComNAB 12ND	Com12	CNO	Buier	Remarks
Target No. 6 Vernalis	NOy(R)-33956 Former Civil #4719	L5-7-Ve	12850 Vernalis	(a)	(a)--1	(b)		(b)-1 (a)-2	(b)-2 (a)-3	160 acres
Target No. 9 Crows Landing	NOy(R)-35285 NOy(R)-35532 Former Civil #4703			(a)	(a)--1	(b)		(b)-1 (a)-3	(b)-2 (a)-3	confirm identification of Tar Minnie. Hanson al - 640 acres
Target No. 10 Nich	NOy(R)-35540 & Rev. Permit	X5-7-AH	500	(a)	(a)--1	(b)		(b)-1 (a)-2	(b)-2 (a)-3	502.25 acres
Target No. 12 Big Lagoon	NOy(R)-38139	L5-7-A1-3	825 Big Lagoon	(a)	(a)--1	(b) & (e)		(b)-1 (a)-2	(b)-2 (a)-3	Part of 494.5 acres.
Target No. 13 Humboldt Bay	Civil No. 4952 NOy(R)-38139	C5-7-A1-5	825 So. Humboldt Bay	(a)	(a)--1	(b) & (e)		(b)-1 (a)-2	(b)-2 (a)-3	Part of 494.5 acres
Target No. 14 Pyramid Lake	NOy(R)-36406 Former Civil No. 338	L29-7-H1	8000 Pyramid Lake Paiute Tribe of Nixon, Nevada	(a)	(a)--1	(b)	(c)	(b)-1 (a)-2	(b)-2 (a)-3	Cancelled 15 45 No comment
Target No. 17 Bermond	Permit from Interior	C29-7-Fa-1	1850 Fallon Target Area 1	(a)	(a)--1	(b)		(b)-1 (a)-2	(b)-2 (a)-3	9,600 acres
Target No. 19 Fallon Tar. Area #3			1855 Fallon Target Area 3	(a)	(a)--1	(b)		(b)-1 (a)-2	(b)-2 (a)-3	
Target No. 20 Schurz			1855 Fallon Target Area 4	(a)	(a)--1	(b)		(b)-1 (a)-2	(b)-2 (a)-3	1 sq. mile - Walker River Paiute Tribe
Target No. 21 Arcata - land target	NOy(R)-37686 Former Civil No. 5006	L5-7-A1	12550 Trinidad	(a)	(a)--1	(b) & (e)		(b)-1 (a)-2	(b)-2 (a)-3	640 acres

Target No.	Lease No.	BuDocks File#	Com12 File #	APPROVALS			Com12	CNO	BuAer	Remarks
				ComFiarAlameda	Fleet Air	ComHAB12				
Target No. 22	NOy(R)-37876	L5-7-A1-1	1435	(a)	(a)-1	(b)	(b)-1	(b)-2	179 acres	
Gustine	NOy(R)-38021	L5-7-A1-2					(a)-2	(a)-3	331 acres	
	Former Civil No. 5028								Total 510 acres	
Target No. 23	W-1105-Eng- 3195	T5-7-Ma (conf.)		(a)	(a)-1	(b)	(b)-1	(b)-1 (a)-2	(b)-2 (a)-3	this lease ne transferred to Navy - BuDocks ltr 27 Aug. 45 ser. 0168 to Com12 so advis Use believed secured by inf mal local agre ment with Army Confirmation r quested.
Target No. 25	Permit from Lovelock Target Area 1	G29-7-FA-2	3350	(a)	(a)-1	(b)		(b)-1 (a)-2	(b)-2 (a)-3	
Target No. 26	Permit from Lovelock Target Area 2	G29-7-FA-2	3350	(a)	(a)-1	(b)		(b)-1 (a)-2	(b)-2 (a)-3	
Target No. 27	Permit from Lovelock Target Area 3	G29-7-FA-2	3350	(a)	(a)-1	(b)		(a)-2 (b)-1	(b)-2 (a)-3	
Target No. 29	No lease Jenner Civil #5081	G5-7-SR	2925	(a)	(a)-1	(b)		(b)-1 (a)-2	(b)-2 (a)-3	144 acres
Target No. 30	Civil #5222	G5-7-SR-2	12225	(a)	(a)-1	(b)		(b)-1 (a)-2	(b)-2 (a)-3	
Monterey Bay Torpedo Range				(d)						No informati as to whether land involved Cancellation recommended reference (d)

UNITED STATES PACIFIC FLEET
FLEET AIR ALAMEDA

U.S. Naval Air Station,
Alameda, California,

8 Jan. 1946

From: Commander Fleet Air, Alameda.
To: Commander Naval Air Bases, TWELFTH Naval District.
Subject: Bombing Targets - dis-establishment of.
Reference: (a) ComFair Alameda ltr serial 01443 of 10
September 1945.

1. Reference (a) lists the estimated target requirements for post-war training in the Alameda area.

2. At this time it is advisable to list those targets which may be released immediately and those which should be retained temporarily or permanently. This list in no way impinges on the conclusions set forth in reference (a).

TARGETS AVAILABLE FOR IMMEDIATE RELEASE

- ✓ No. 3 in South San Francisco Bay, California.
- No. 5 at Hollister, California.
- No. 7 at Crows Landing, California.
- No. 17 at Bermond, Nevada.
- No. 19 at Fallon, Nevada.
- No. 20 at Schurs, Nevada.
- No. 25 at Lovelock, Nevada.
- No. 26 at Lovelock, Nevada.
- No. 27 at Lovelock, Nevada.
- No. 30 at Stewart's Point, California.

TARGETS FOR TEMPORARY RETENTION

- No. 6 at Vernalis, California.
- No. 10 at Antioch, California.
- No. 29 at Jenner, California.

TARGETS FOR PERMANENT RETENTION

- ✓ No. 1 at Tomales Bay, California.
- ✓ No. 2 at Abbot's Lagoon, California.
- ✓ No. 3A in South San Francisco Bay, California.
- ✓ No. 4 in South San Francisco Bay, California.
- No. 8 at Watsonville, California.
- No. 8A at Watsonville, California.
- No. 9 at Petaluma, California

File QT/21-alre

154

Subject: Bombing Targets - dis-establishment of.

TARGETS FOR PERMANENT RETENTION (Continued)

No. 11 at Carson Sink, Nevada.
No. 15 at Carson Sink, Nevada.
No. 16 at Carson Sink, Nevada.
No. 18 at Fallon, Nevada.
No. 24 at Tulare Lake, California.

/s/ W. M. McDADE
Chief of Staff

Op-35-12-1 AVG
Serial 39135

OFFICE OF CHIEF OF NAVAL OPERATIONS

24 Sept 1945

From: CNO
To: Distribution List

Subject: Revised Planning Estimate for Roll-Up of Continental Air
Stations, Satellite and Outlying Fields

References: (a) Op-35 Secret Planning Memo Op-35-12-AOL, Ser. 003235, 21 Aug 45
(b) Op-35 Secret Planning Memo Op35-12-R&S, Ser. 003735, 29 Aug 45
(c) Op-35 Secret Planning Memo Op-35-12-AOL/mw, Ser003835, 30 Aug 45

Enclosures: (A) Revised List of Stations
(B) Revised Chart of Aviation Facilities, Change in Status of
(C) Revised List of Satellite and Outlying Fields

1. References (a), (b) and (c) are hereby cancelled.
2. Enclosures (A) and (C) are revised tables of information concerning aviation facilities of the Naval Shore Establishment arranged in order of Naval Districts and Functional Training Commands. This information is furnished for planning purposes only.
3. Enclosure (B) shows alphabetically in chart from the same information listed in Enclosure (A).

9

/s/ M. A. MITSCHER
Deputy Chief of Naval Operations
(Air)

ComWestSeaFron
ComFair WestCoast
XXXXX
ComTwelve
ComNABS(All continental
ComAirPac
ComFair Alameda
ComNATS
X X X X X X X

Definition of Base Status:

- (a) Full Operation (F) - An operating condition requiring facilities and personnel adequate to support planned operations which will utilize more than half of the existing capacity of the station.
- (b) Reduced Operation (R) - An operating condition requiring facilities and personnel adequate to support planned operations which will utilize less than half of existing capacity of station.
- (c) Maintenance (M) - A greatly reduced operating condition requiring a minimum strength self-sustaining personnel unit, the mission of which is to support emergency and itinerant operations and to maintain the facilities and equipment in such condition that they can, by addition of personnel, be placed back in full operation with a minimum delay.
- (d) Caretaker (C) - A non-operating condition requiring a minimum strength personnel unit, the mission of which is to maintain physical U. S. possession of the property involved, and to guard such property against deterioration, damage, looting and theft.
- (e) Surplus (S) - Excess to aviation requirements of the Naval Shore Establishment. May be desired for non-aviation Naval purposes; if not so desired, will be declared to Surplus Property Board for disposal.
- (f) Disestablished (X).

Revised as of 24 September 1945.

ENCLOSURE (A)

<u>12th Naval District</u>	<u>Effective Date Change in Status</u>		<u>P. W. Status</u>	
Alameda				F
Arcata	1 Mar 46	C	1 Apr 46	S
Crows Landing				F
Eureka (LTA)	15 Oct 45	C	1 Feb 46	S
Fallon, Nev.	1 Jan 46	R	1 Feb 46	M
Hollister	15 Oct 45	C	15 Nov 45	S
King City	15 Sep 45	C	15 Oct 45	S
Livermore			1 Feb 46	R
Mills Field	15 Dec 45	C	15 Jan 46	S
Moffett Field (LTA)				F
Monterey	15 Oct 45	C	15 Nov 45	S
Oakland	15 Jan 46	R	1 June 46	S
Santa Rosa	1 Dec 45	R	1 Feb 46	M
Treasure Island	15 Oct 45	R	1 June 46	S
Yermalis	15 Oct 45	C	15 Nov 45	S
Watsonville (LTA)	15 Oct 45	C	1 Feb 46	S
Watsonville	15 Oct 45	C	15 Nov 45	S

Revised as of 24 September 1945.

ENCLOSURE (A)

NA/muse

GUNNERY RANGE AND TARGET AREAS
RELEASED SINCE WW II - 12ND
(contains principal areas)

CALIFORNIA

MACDOEL PRACTICE GUNNERY RANGE Statistics unknown. Presumed released in 1946.	7040 Acres
MODOC COUNTY GUNNERY RANGE Negotiated by 13th Naval District. Acquired by leasehold condemnation and leases involve lands in Modoc and Siskiyou Counties and Oregon. Terminated 1945 or 1946.	291,165 Acres
BIG LAGOON RANGE Leasehold condemnation, 6/13/44. Terminated 4/14/46	153.03 acres
SO. HUMBOLDT BAY RANGE Leased 6/30/44 to 4/25/46	341.51 acres
TRINIDAD DIVE BOMBING & AIR TO AIR GUNNERY RANGE Leasehold condemnation, 10/1/44 Terminated 3/4/46	640 Acres
JENNER - TARGET 29 Leasehold condemnation and leases 12/29/44 to 3/1/46	144 Acres
PETALUMA TARGET 9 Leasehold condemnation. Superseded by Leases 11/4/44 to 9/30/52	1770 Acres
STEWART POINT TARGET NO. 30 Leasehold condemnation. Superseded by Lease 5/2/45 to 4/3/46	350 Acres
POINT REYES LAGOON BOMBING TARGET	.10 Ac. leases 12/22/52 .23 Ac. .23 Ac. to 4/15/54
POINT REYES ABBOTTS LAGOON TARGET AREA NO. 2 Certain portions to 7/23/52	PERMITS

FANNY SHOAL BOMBING TARGET 1949. In restricted navigable waters.	Radius of 2.5 miles
ANTIOCH BOMBING TARGET NO. 10 Lease and Permit 2/1/44 to 10/25/52	992.2 Acres
VERNALIS DIVE BOMBING TARGET NO. 16 Lease 7/14/42 to 6/30/46	160 Acres
GUSTINE RADAR BOMBING TARGET NO. 22 Leasehold condemnation. Superseded by Lease. 11/6/44 to 4/7/46	510 Acres
MONTEREY BAY TARGET AREA 8A (Watsonville) Army Permit. Rescue, Dive & Glide Bomb Letter of 1/8/46 advises no longer required.	
HOLLISTER TARGET NO. 5 Leasehold condemnation. Superseded by lease 8/1/43 to 6/30/46	440 Acres
MADERA BOMBING TARGET NO. 23 Army lease. Used jointly with Army 5/18/45 to 9/27/45	3821.25 Acres
TULARE LAKE - SEADROME FACILITY & RADAR TARGET Leases - various Dates from 1/42 to 6/47	3,000 Acres
LAKE CHABOT RIFLE & MACHINE GUN RANGE FOR USE BY NAS OAKLAND Leased 9/1/42 to 6/30/47	1014.34 Acres
TARGETS S.F. BAY NO. 3, 3A & 4 Army Permit Bay waters vicinity of San Mateo Bridge and DD HULK Indefinite	

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NND 945081
P/S WRA. E. 11/3/00

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C-9-57
NOY-6100

IN REPLY ADDRESS
THE BUREAU OF YARDS AND DOCKS
AND REFER TO NO.

NAVY DEPARTMENT

BUREAU OF YARDS AND DOCKS
WASHINGTON, D. C.

NOY-6709
C-9-2A

To: Officer-in-Charge of Construction
Twelfth Naval District,
Federal Office Building,
San Francisco, Calif.

JUN 23 1943

Subj: Naval Air Station, Alameda, Calif. - Outlying Fields -
Magazines.

Ref: (a) BuDocks ltr NOY-4165 to CinCC of 29 Jan. 1943
(b) BuDocks ltr NOY-4561 to CinCC of 29 Jan. 1943

1. Funds are available for the construction of steel arch-type, earth-covered magazines at the subject fields.
2. By references (a) and (b), the Officer-in-Charge of Construction was advised of recommended magazine requirements for the fields. However, the program as revised and approved, voids requirements listed in these references. Final revised requirements are as follows:

Vernalis & Crown Landing
(Requirements for each field)

- 3 High Explosives 20"x50"
- 1 Fuse & Detonator 10"x10"
- 2 Small Arms 20"x50"
- 1 Pyrotechnics 14"x20"
- 1 Inert 40"x50"

Monterey

- 2 High Explosives 20"x50"
- 1 Warhead 20"x50"
- 1 Fuse & Detonator 10"x10"
- 1 Small Arms 20"x50"
- 1 Pyrotechnics 14"x20"
- 1 Inert Storehouse 40"x50"
- 1 Torpedo 25"x30" (with racks)

Santa Rosa

- 3 High Explosives 20"x50"
- 1 Fuse & Detonator 10"x10"
- 1 Small Arms 20"x50"
- 1 Pyrotechnics 14"x20"
- 1 Inert Storehouse 20"x50"

Hollister

- 1 High Explosives 20"x50"
- 1 Fuse & Detonator 10"x10"
- 1 Small Arms 20"x50"
- 1 Pyrotechnics 10"x10"
- 1 Inert Storehouse 20"x50"

Geati & Concord (each field)

- 1 Small Arms 20"x20"

WATSONVILLE

- 2 High Explosive 20"x50"
- 1 Fuse & Detonator 10"x10"
- 1 Small Arms 20"x50"
- 1 Pyrotechnics 20"x20"
- 1 Inert Storehouse 20"x50"

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 Authority: NND 945081
 Date: 11/13/00



FORM 5709
 (Rev. 1-25-59)
 GPO: 1959 O - 348-000

NAVY DEPARTMENT

1. Enclosures 1 to 5 inclusive are the approved layouts of the several stations. They supersede all previous layouts. With reference to Enclosures 1 and 5, it is assumed that there are no inhabited buildings within the areas formed by the station boundaries and the limits of the safety zone. In the case of Fort Ord and Watsonville, Enclosures 3 and 4, it is assumed that there are no inhabited buildings within the areas defined by the limits of the minimum land required to construct the magazines and the safety zone limits. Enclosure 5 shows the possible locations for the magazines at Fort Ord. The northern location is preferred if it does not interfere with the possible future East-West runway, since it would eliminate the need for acquiring additional land. Any changes in these layouts must be approved by the Bureau concerned before the magazines are constructed for the construction of steel arch-type, earth-covered magazines at the subject fields.

2. All magazines, except inert storerooms, shall be corrugated steel arch-type. Drawings of these magazines shall be prepared in accordance with the requirements of the Bureau. However, the program is revised and approved. The requirements listed in these references. Final revised requirements are as follows:

3. Enclosure 10 covers construction of barricades for high explosive and fuse and detonator magazines and the relation-ship of these magazines to access roads. For additional information on barricades see DAVID Reg. Nos. 209854 and 209855. 209854 and 209855 are also applicable to magazines.

- 2 Small Arms 20X150
- 1 Fuse & Detonator 10X150
- 1 Pyrotechnics lightning protection as required for the steel arch-type magazines. This is to be provided by driving 20X150 zinc coated pipe 3 feet long into the ground near each of the two front corners of the magazine and anchoring these rods to the lowest point of the steel part of the magazines by a bus of stranded zinc coated steel ground rod connection shall be made in accordance with Section 107 of DAVID Reg. No. 209855. Where they should be made of zinc coated steel instead of copper.
- 1 Pyrotechnics 10X150
- 1 Inert Storeroom 20X150

4. Construction is to be made in accordance with the work being made the subject of separate correspondence. (with racks)

Small Arms	20X150	2 High Explosive	20X150
		1 Fuse & Detonator	10X150
		1 Small Arms	20X150
		1 Pyrotechnics	20X150
		1 Inert Storeroom	20X150

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1. Hand-drawn sketch of Subsonic station 020-261 - Magazine layout, Auxiliary Air Field, Yonkers, Calif. approved layout of
2. Hand-drawn sketch of Subsonic station 020-262 - Magazine layout, Auxiliary Air Field, Yonkers, Calif. approved layout of
3. Hand-drawn sketch of Subsonic station 020-263 - Magazine layout, Auxiliary Air Field, Yonkers, Calif. approved layout of
4. Hand-drawn sketch of Subsonic station 020-264 - Magazine layout, Auxiliary Air Field, Yonkers, Calif. approved layout of
5. Hand-drawn sketch of Subsonic station 020-265 - Magazine layout, Auxiliary Air Field, Yonkers, Calif. approved layout of
6. Hand-drawn sketch of Subsonic station 020-266 - Magazine layout, Auxiliary Air Field, Yonkers, Calif. approved layout of
7. Hand-drawn sketch of Subsonic station 020-267 - Magazine layout, Auxiliary Air Field, Yonkers, Calif. approved layout of
8. Hand-drawn sketch of Subsonic station 020-268 - Magazine layout, Auxiliary Air Field, Yonkers, Calif. approved layout of
9. Hand-drawn sketch of Subsonic station 020-269 - Magazine layout, Auxiliary Air Field, Yonkers, Calif. approved layout of
10. Hand-drawn sketch of Subsonic station 020-270 - Magazine layout, Auxiliary Air Field, Yonkers, Calif. approved layout of

5. Enclosure is covered with Rodent Patterns for high explosive and fuel and Nitrocellulose and the relation-ship of these patterns to the magazine. For additional information see paragraphs 20 and 21 of Reg. No. 20935 and 20936. CC: Bureau (with Encl. 1-10) and CC: Chief of Ordnance (with Encl. 1-10) to these agencies.

6. Secondary engineering protection is required for the steel anti-type magazines. This is to be provided by driving a 3/4" zinc coated pipe 2 feet into the ground near each of the two lower corners of the magazine and connecting these rods to the lowest point of the lower part of the magazine by a bar of number 2/G stranded, zinc coated wire. Ground rod connections shall be made in accordance with Section 20-10 of NAVY Reg. No. 20935, except that ground clamps shall be zinc coated (NVA-051) instead of copper 2107.

7. Information in regard to method of accomplishing this work is to be furnished by separate correspondence.

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P/S 11/13/00

FILE

F41-10/12-1u

72. (1353)

UNITED STATES PACIFIC FLEET
FLEET AIR ALAMEDA

U.S. Naval Air Station,
Alameda, California,

JUN 24 1943

From: Commander Fleet Air, Alameda.
To : The Chief of the Bureau of Ordnance.

Subject: Bombing Trainers for Outlying Fields.

Reference: (a) Comfair, Alameda ltr. P11-1/90-1u (12)
dated 4 January 1943.
(b) Bu.Ord. ltr. NA27(PLc) dated 7 Apr. 1943.
(c) Bu.Ord. ltr. NM29 (Mn6c) dated 11 June 1943.

1. In order to meet the immediate need for Bombing Trainers for the training of personnel of the Fleet Air Detachment, Alameda, it is requested that five (5) Mark II Mod. I Bombing Trainers be made available to the Naval Air Station, Alameda for assignment by the Naval Air Center as scheduled by Commander Fleet Air, Alameda.

2. At the present time there are six (6) Bombing Trainers assigned to the Naval Air Station, Alameda which have been allocated as follows:

- (a) Two (2) to Air Bomber Class, Naval Air Station, Alameda.
- (b) Two (2) for use of the personnel of the Fleet Air Detachment, at Naval Air Station, Alameda.
- (c) One (1) to Auxiliary Air Station, Monterey.
- (d) One (1) to Auxiliary Air Station, Crows Landing.

3. It is anticipated that the five (5) additional trainers requested will be allocated to the following activities:

- (a) One (1) additional trainer to Auxiliary Air Station, Crows Landing. Here, it is anticipated to base multi-engine bombers of the PB4Y type.
- (b) One (1) to Auxiliary Air Station, Hollister.
- (c) One (1) to Auxiliary Air Station, Santa Rosa.
- (d) One (1) to Auxiliary Air Station, Vernalis.

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FILE

F41-10/12-1u
(1353)

UNITED STATES PACIFIC FLEET
FLEET AIR ALAMEDA

U. S. Naval Air Station,
Alameda, California,

JUN 24 1943

Subject: Bombing Trainers for Outlying Fields.

- (e) One (1) to Naval Air Station, Alameda, for assignment by Naval Air Center, as scheduled by Commander Fleet Air, Alameda.

W. K. Harrill

W. K. HARRILL

Copy to:
Comdt. Nav. Air.Center.
N.A.S., Alameda.
Bu.Aer.

062943 00456

DECLASSIFIED
Authority AWD 917625
By JW NARA Date 1-13

U. S. GOVERNMENT PRINTING OFFICE

NA27/741
MN2
1A

IN REPLY REFER
TO No.

NA27-96-ts
Fl-1-15

U. S. NAVAL AIR STATION
ALAMEDA, CALIFORNIA

24 February 1945

~~SECRET~~

~~SECRET~~ AIRMAIL

To: BuOrd.

Subj: Miniature practice bombs; request for.

Ref: (a) BuOrd ltr. (Mn2e) dtd 16 Dec 1944.

1. In reference (a) the Bureau stated that commencing in January, deliveries of miniature practice bombs were scheduled for delivery to this station as follows.

5,000	Mark 19 Mod 1	Per month.
24,000	Mark 43 Mod 1	Per month.

2. From 1 January 1945 to date, no practice bombs Mark 19 Mod 1 and only thirty six thousand (36,000) practice bombs, Mark 43 Mod 1, have been received.

3. It is requested that the delivery of miniature practice bombs, Mark 19 Mod 1 and Mark 43 Mod 1, be expedited to prevent interruptions of airplane pilot training.

By direction of CO:

F. E. Matthews
F. E. MATTHEWS
Ordnance Officer.

~~REGISTERED MAIL~~
~~7-3622~~

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R674
F. 10020
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Authority AWD917625
By JW NARA Date 1-13

UNITED STATES PACIFIC FLEET
FLEET AIR ALAMEDA

L7/50-WKG/hs

Serial (0784)

Naval Air Station, Alameda, California,
7 May 1945

na 27
mint
mk

CONFIDENTIAL

From: The Commander Fleet Air, Alameda.
To: The Commander, Naval Air Bases, TWELFTH Naval District.

Subject: Deployment of Aircraft, Naval Air Bases, TWELFTH Naval District - Allowances of Fleet controlled Section "B" Aeronautical Spares to be maintained at Naval Air Stations, 12ND, and Naval Auxiliary Air Stations, TWELFTH Naval District.

Reference: (a) ComFair Ala ltr ser 0486 of 19 March 1945.

Enclosure: (A) Allowance of Fleet controlled material - NAS and NAAS 12ND.
(B) Deployment of Aircraft in 12ND - May - October 1945.

1. Reference (a) is hereby cancelled. All previous allowances conflicting with the information contained in this directive are also cancelled.

2. Enclosures (A) and (B) are submitted in an attempt to aid Commander Naval Air Bases, TWELFTH Naval District in the overall procurement of aircraft spares for the Alameda area, and to establish maximum allowance of Fleet controlled Section "B" aeronautical material to be maintained at the outlying fields. Projected deployment by fields will assist the outlying station supply officer both in planning and stock control.

3. Enclosure (A) has been revised to conform with existing and future deployment. The Section "B" aeronautical spare allowances established by enclosure (A) are to be considered as the maximum allowances to be stocked at the outlying fields. Enclosure (A) will be revised when operational deployment necessitates a change in existing allowances. Attention is invited to the following changes regarding allowances to be stocked:

NAAS HOLLISTER

F6F-3, -5 - Increased from 24 to 48 plane allowance.
FM-2 - Decreased from 32 to 0 plane allowance.

NAAS ARCATA

SB2C-4, -5, -6 - Decreased from 9 to 0 plane allowance.

NAS LIVERMORE

F6F-3, -5 - Increased from 18 to 48 plane allowance.
SB2C-4, -5, -6 - Increased from 10 to 15 plane allowance.
TBF/M-1, -10, -3 - Increased from 10 to 15 plane allowance.

NAS MOFFETT

SBD - Decreased from 6 to 0 plane allowance
TBF/M-1, -10, -3 - Increased from 0 to 10 plane allowance.

NAAS WATSONVILLE

F4U-ID - Increased from 0 to 36 plane allowance.

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REGISTERED MAIL

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Authority 11/10/91/7625
By JW NARA Date 1-13

L7/50-WKG/hs

UNITED STATES PACIFIC FLEET
FLEET AIR ALAMEDA

Serial (0764)

7 May 1945.

CONFIDENTIAL

Subject: Deployment of Aircraft Naval Air Bases, TWELFTH Naval District - Allowances of Fleet controlled Section "B" Aeronautical Spares to be maintained at Naval Air Stations, 12ND, and Naval Auxiliary Air Stations, TWELFTH Naval District.

It is to be noted that Commander Fleet Air, Alameda, will take action to provide initial spares for new types and models of aircraft (i.e., F8F, F4U-4, etc.) when such spares are not stocked at Naval Air Station, Alameda.

4. Enclosure (B) contains scheduled deployment by fields and total number of aircraft in the Alameda area for the next six (6) months. Aircraft totals for the period, May through July, are based on actual deployment. Totals for the period, August through October, are estimates based on deployment data available, past experience, available aircraft and anticipated delivery of new type aircraft. Enclosure (B) will be projected and revised monthly.

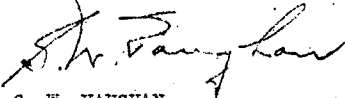
5. A sixty (60) day stock of Section "B" material will be maintained at Naval Air Station, Alameda, based on total aircraft deployment as shown in enclosure (B).

Copy to:

BuAer
BuOrd
ASO Phila
ComAirPac
ComFair WC
ComFair Seattle

V. H. RAGSDALE.

NAS, Alameda (10)
All CASUs
All PATSUs
SOSU-3
CFAW-8
HedRon-8
All NAAS
NAS Livermore
NAS Moffett Field


G. W. VAUGHAN,
Flag Secretary.

DECLASSIFIED
 Authority AWD917625
 By JW NARA Date 1-13

~~CONFIDENTIAL~~

Allowances to be Maintained at Naval Air Stations and Naval Auxiliary Air Stations, TWELFTH Naval District.

Aircraft types	NAAS Arcata	NAAS Crews Landing	NAAS Fallon	NAAS Hollister	NAAS King City	NAAS Monterey	** NAAS Santa Rosa	* NAAS Vernalis	*** NAAS Watsonville	NAS Livermore	NAS Moffett Field
F6F-3-5	18		80	48		18	72	18	72	48	
FM-2	16				32	32		16		16	
TBF/M-1-1C-3	12		20	18	24	24	20	12	15	15	30
SB2C-4-5			20			9	15	9	15	15	
PB4Y1-2		30									
PV-1-2											30
JM-1											12
F4U-1D									36		

*One (1) ten to 12 plane F4U-4 "A" quota plus vendor items is in the process of being shipped from ASA Oakland to NAAS Vernalis. Entire shipment will be completed by 7 May.
 ** Four (4) 10 to 12 plane F6F "A" quota plus vendor's items will be made available by 22 May. Two (2) of the quotas will be shipped direct to NAS Santa Rosa - the remaining two (2) to be retained by NAS Alameda.
 *** F6F allowance at Watsonville should be reduced approximately to 36 plane allowance during period. F4U-1Ds based at Watsonville.

DECLASSIFIED

Authority AWD917625
 By JW NARA Date 1-13

~~CONFIDENTIAL~~

DEPLOYMENT OF AIRCRAFT - TOTALS

	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
F6F-3-5	356	350	346	352	345	340
FM-2	80	78	78	79	81	81
F4U-1D	36	36	36	36	36	36
F4U-4	36	36			36	36
F8F		36		36	36	36
SB2C-1	85	83	83	70	62	60
SB2C-5	15	15		15	28	35
TBM-3	140	151	159	162	162	162
TBE/M-1-1C	30	19	13	6	6	6
PB4Y-1	6	6	0	0	0	0
PB4Y-2	20	20	25	25	25	25
PV-1	19	19	16	10	5	0
PV-2	38	40	40	46	49	53
SC-1	15	15	15	15	15	15
PBM-5	32	32	32	30	30	30
PBM-3D	4	4	4	4	4	4
PBY-5A	15	15	15	10	10	10
SBD	24	24	24	20	18	18
OS2U	19	19	19	19	19	19
JM	12	12	12	12	12	12
SNJ	48	48	48	48	48	48
SNB	5	5	5	5	5	5

Note: Totals do not include unassigned pool aircraft.

ENCLOSURE (B)

DECLASSIFIED

Authority AM10917625
 By JW NARA Date 1-13

~~CONFIDENTIAL~~

	MAY	JUNE	JULY	AUG	SEPT.	OCT.
NAS Alameda CASU-6	<u>SQDN</u> 32 F6F-3-5 36 F4U-1D 32 FM-2 12 PBF/M-1, -1C 27 TBM-3 19 SB2C-4	61 F6F-3-5 19 SB2C-4 15 TBM-3				
	<u>CASU-6</u> 14 SNJ 1 SBD-5 3 SB2C-4	See May Column for CASU Aircraft				
SOSU-3	<u>SOSU-3</u> 15 SC-1 9 OS2U-3 3 SB2C-4 1 SNJ 1 GH-2	See May Column for SOSU Aircraft				
HedRon-8	<u>SQDNS</u> 32 PBM-5 4 PBM-3D 11 PB4Y-5A <u>HedRon-8</u> 2 PBY 5 SB2C-4 1 GH-1 1 SNJ 2 SNE	32 PBM-5 4 PBM-3D 11 PB4Y-5A	32 PBM-5 4 PBM-3D 11 PB4Y-5A	23 PBM-5 2 PBM-3D		
	See May Column for HedRon Aircraft					
NAAS ARCATA	<u>SQDNS</u> 36 F6F-5 15 TBM-3 2 SNJ	36 F6F-5* 15 TBM-3				
	See May Column for CASU Aircraft					
NAAS Crows Landing	<u>SQDNS</u> 20 PB4Y-2 6 PB4Y-1 <u>PATSU 8-3</u> 1 SNJ 1 SNE	35 PB4Y-2 6 PB4Y-1	20 PB4Y-2 6 PB4Y-1			
	See May Column for PATSU Aircraft					
NAAS FALLON	<u>SQDNS</u> 68 F6F-3-5 17 SB2C-4 15 TBM-3 <u>CASU-54</u> 18 F6F-3-5 3 SHD-5 7 SNJ 1 JZF 1 GH-3	68 F6F-3-5 17 SB2C-4 15 TBM-3	68 F6F-3-5 17 SB2C-4 15 TBM-3			
	See May Column for CASU Aircraft					
NAAS HOLLISTER	<u>SQDNS</u> 42 F6F-3-5 21 TBM-3	24 F6F-3-5 9 TBM-3	24 F6F-3-5 9 TBM-3			

DECLASSIFIED

Authority 11/10/91 7625
 By JW NARA Date 1-13

PAGE (2)

~~CONFIDENTIAL~~

	MAY	JUNE	JULY	AUG	SEPT	OCT
NAAS HOLLISTER (Continued)	CASU-37 1 F6F-3 1 SBD-5 2 SNJ	See May Column for CASU Aircraft				
NAAS KING CITY	SQDNS 16 FM-2 6 TBM-3 6 TBF/M- 1.-1C CASU-64 Det. 2 SNJ	32 FM-2 18 TBM-3 6 TBF/M- 1.-1C	32 FM-2 22 TBM-3 2 TBF/M- 1.-1C	16 FM-2 12 TBM-3		
NAS Livermore	SQDNS 61 F6F-3-5 16 FM-2 18 SB2C-4 21 TBM-3 31 TBF/M- 1.-1C CASU-6 Det. 2 SNJ 1 SBD			68 F6F-3-5 8 SB2C-4 7 SB2C-5 15 TBM-3	68 F6F-3-5 8 SB2C-4 7 SB2C-5 15 TBM-3	
NAS Moffett	SQDNS 38 PV-2 6 PV-1 9 JM-1 7 SBD-5 1 TBM-3 3 TBF/M- 1.-1C 1 PBY 1 SNB 1 SNJ 2 J2F	See May Column for June & July Deploy.		27 PV-2 9 JM 7 SBD-5 1 TBM-3 3 TBF/M- 1.-1C 1 PBY 1 SNB 2 SNJ 2 J2F		
Anti-Sub. Warfare Unit	ASWU 10 OS2U-3 1 F6F-3 1 SNJ 1 GH-2	See May Column for ASWU Aircraft				
	PATSU-8-2 13 PV-1 2 JM 1 SNJ	See May Column for PATSU Aircraft				
NAAS Monterey	SQDNS 16 FM-2 10 TBM-3 2 TBF/M- 1.-1C CASU-37 Det. 2 SNJ	32 FM-2 20 TBM-3 4 TBF/M- 1.-1C	32 FM-2 24 TBM-3	16 FM-2 12 TBM-3		
		See May Column for CASU Aircraft				

DECLASSIFIED

Authority AM10917625
 By JW NARA Date 1-13

~~CONFIDENTIAL~~

PAGE (3)

	MAY	JUNE	JULY	AUG	SEPT	OCT
NAAS Santa Rosa	SQDNS					
	65 F6F-3-5	36 F6F-3-5	36 F6F-3-5			
	18 SB2C-4	36 F8F	36 F8F			
	15 TBM-3	18 SB2C-4	18 SB2C-5			
	15 SB2C-5	15 SB2C-5	15 TBM-3			
		15 TBM-3				
	CASU-36					
	18 F4U-1D	3 SBD-5				
	3 SBD-5	1 F6F-3				
	1 F6F-3	4 SNJ				
1 JRF-2	1 JRF-2	See May Column for CASU Aircraft				
1 JRF-4	1 JRF-4					
NAAS Vernalis	SQDNS					
	36 F4U-4	36 F4U-4				
	18 F6F-3-5	18 F6F-3-5				
	8 TBM-3	12 TBM-3				
	4 TBF/M-					
	-1,-1C					
	CASU-63					
	1 F6F-3					
	1 SBD-5	See May Column for CASU Aircraft				
	1 SNJ					
NAAS Watsonville	SQDNS					
	61 F6F-3-5	36 F6F-3-5	36 F6F-3-5	36 F8F		
	19 SB2C-4	36 F4U-1D	36 F4U-1D	36 F4U-4		
	11 TBM-3	18 SB2C-4	18 SB2C-4	18 SB2C-5		
	4 TBF/M-	15 TBM-3	15 TBM-3	15 TBM-3		
	1,-1C					
	CASU-64					
	2 F6F-3-5					
	2 SBD-5	See May Column for CASU Aircraft				
	4 SNJ-5					
1 JRF-5						

NOTE: Combat type aircraft now assigned CASUS, PATSUS, SOSU or HedRon will be diverted to squadrons when additional aircraft are necessary to fill complement.

NAV. PERS.
ORD.
AERO.
BUSHIPS
Y & D
S & A
M & S
J.A.G.
M.G.C.
BUDGET

NA (177) / N 12-2

(m)

63-af 5/25

Op-50-2083
SO 5 21 220
Serial 518850
End-- 3 on NAB, 12ND ltr to BuDocks, NAB12-80-ss, N1-13, Ser 3079 of 4 May 1945

COMINCH
OP. 01
OP. 02
OP. 03

From: GNO
TO: BuDocks

24 MAY 1945

OP. 05
OP. 05-E
OP. 05-G

Subj: Naval Air Bases, 12th Naval District, Renewal of Lease NOy(E) 33956 - Request for. Lease covers approx. 160 acres in San Joaquin County, Calif. required as a Dive Bombing Target by carrier aircraft stationed at NAAS, Vernalis. Annual rental \$160.

OP. 12
OP. 13

OP. 16
OP. 17

Ref: (a) General Order 138.

P. 19
JP. 20
OP. 21

(b)

OP. 23

1. Forwarded, approved in accordance with ref. (a) as to the military features of the site involved. This approval does not extend to the legality of the acquisition procedures nor the propriety of the price to be paid.

OP. 28

OP. 29

OP. 30

OP. 31

OP. 32

OP. 33

OP. 34

OP. 35

OP. 36

OP. 37

OP. 39

E. R. SOBEL
By direction

*5/24 by
Delivered by
hand to Docks
H*

OP. 50-A
OP. 50-B
OP. 50-C
OP. 50-D
OP. 50-E
INSP. GEN.

CC: Comtwelve
BuAer/
Op51

F-8

W G O
3 Y O
W S O
C S O
LES
VHC

ENG-2 ON THE ROAD FOR RESEARCH EVENTS-BO-22 NI-13 261

Memorandum No. **AP-41-2-273**

Approved for Release by NSA on 05-08-2014 pursuant to E.O. 13526

From: Chief, Buyer
To: Chief, Submarine

84280: CIO 5 21 1946

Subj: Naval Air Station, 12th Naval District, Bureau of Naval Personnel - Request for

RECEIVED

1. Summary Forwarded.
2. Buyer approves the removal of the lease requested by the lease letter and certifies that the use of the premises is needed and essential to the conduct of the war.
3. All rent falling due for the fiscal year 1946 under the proposed removal of lease is chargeable to the appropriation 1761500, 3 location May, 1946 (Bureau and Field), Title and Account Chargeable 11-4-4 (Temporary) made available to BuSubs under Buyer Procurement Directive No. 2511-3000-21-46.
4. The subject project does not represent an increase in scope of existing facilities or establish any new facilities for which Naval personnel will be required other than that already assigned to the subject activity. This information is given in conformance with BuSubv confidential. (SC) PIA-1/2M, dated 20 January 1946 re Employment of Personnel.

Genev J. Buff

CC: Comptroller
Comdr NAS 22
CO, NAS, Pensacola, Fla.

84280

X Separate
10 NS NAC
2

X
NI-13

Maintenance Div.
Aer-MA-3-RTB

Ref: Memorandum on MIL-33-20-10
MIL-33-20-10, 21-10, 22-10, 23-10, 24-10, 25-10, 26-10, 27-10, 28-10, 29-10, 30-10, 31-10, 32-10, 33-10, 34-10, 35-10, 36-10, 37-10, 38-10, 39-10, 40-10, 41-10, 42-10, 43-10, 44-10, 45-10, 46-10, 47-10, 48-10, 49-10, 50-10, 51-10, 52-10, 53-10, 54-10, 55-10, 56-10, 57-10, 58-10, 59-10, 60-10, 61-10, 62-10, 63-10, 64-10, 65-10, 66-10, 67-10, 68-10, 69-10, 70-10, 71-10, 72-10, 73-10, 74-10, 75-10, 76-10, 77-10, 78-10, 79-10, 80-10, 81-10, 82-10, 83-10, 84-10, 85-10, 86-10, 87-10, 88-10, 89-10, 90-10, 91-10, 92-10, 93-10, 94-10, 95-10, 96-10, 97-10, 98-10, 99-10, 100-10

From: Chief, BuAer
To: Chief, BuAer

84260ia: CWO 5 21 1944

Subj: Naval Air Base, 12th Naval District, Annual Report
BuAer-33266 - Request for.

RECEIVED
NAVY DEPARTMENT
OFFICE OF THE SECRETARY

1. Summary Forwarded.
2. BuAer approves the renewal of the lease requested by the local letter and certifies that the use of the premises is needed and essential to the conduct of the war.
3. All rent falling due for the fiscal year 1944 under the proposed renewal of lease is chargeable to the appropriation 1761502.3 Aviation Navy, 1944 (Bureau and Field). Title and Account Chargeable 11-V-1 (Temporary) made available to BuDocks under BuAer Procurement Directive No. EN11-2000-PW-46.
4. The subject project does not represent an increase in scope of existing facilities or establish any new facilities for which Naval personnel will be required other than that already assigned to the subject activity. This information is given in conformance with SecNav confidential. (SC) P16-1/EN, dated 26 January 1944 re Employment of Personnel.

General G. Huff

CC: Conf/wise
Comdr NAS 12
CO, NAS, Vernalis, Cal.

By: [Signature]

848785

PRINT

NAV. PERS.
ORD.
AERO.
BUSHIPS
Y & D
S & A
M & S
J.A.G.
M.G.C.
BUDGET

NA (177) / N 12-2

(M)

Op-30-2000
50 5 21 249

Serial *518830*

End-- *3 on NAB, 12ND ltr to BuDocks, NAB12-80-ss, N1-15, Ser 5079 of 4 May 1945*

24 MAY 1945

COMINCH

OP. 01

OP. 02

OP. 03

From: GNO
TO: BuDocks

OP. 05

OP. 05-E

OP. 05-G

Subj: **Naval Air Bases, 12th Naval District, Renewal of Lease NoY(B) 33956 - Request for.** Lease covers approx. 160 acres in San Joaquin County, Calif. required as a Dive Bombing Target by carrier aircraft stationed at NAAS, Vernalis. Annual rental \$160.

OP. 12

OP. 13

OP. 16

OP. 17

Ref: (a) **General Order 138.**

OP. 19

OP. 20

OP. 21

(b)

OP. 23

1. **Forwarded**, approved in accordance with ref. (a) as to the military features of the site involved. This approval does not extend to the legality of the acquisition procedures nor the propriety of the price to be paid.

OP. 28

OP. 29

OP. 30

OP. 31

OP. 32

OP. 33

OP. 34

OP. 35

OP. 36

OP. 37

OP. 39

E. R. SOBEL
By Direction

*5/24 by
Delivered to BuDocks
Hand to H*

OP. 50-A

OP. 50-B

OP. 50-C

OP. 50-D

OP. 50-E

INSP. GEN.

CC: **ComTwelve**
BuAer
Op31

DECLASSIFIED
 Authority AMND 917625
 By JW NARA Date 1-13

COPY

File F41/90-alre
 5586

UNITED STATES PACIFIC FLEET
 FLEET AIR ALAMEDA

Na27/F41
 F41-10(13)
 Mn2
 071445 0524

FILE

U.A. Naval Air Station,
 Alameda, California.
 9 Jul 1945

From: Commander Fleet Air, Alameda.
 To: Bureau of Ordnance (Section Mn2d).
 Subject: Practice Bomb Signal Mk 4 - modification of.
 Reference: (a) ComFairAlameda dispatch 222334.
 (b) TelCon of 5 July 1945 between BuOrd Section Mn2d and
 Ordnance Officer, Naval Air Station, Alameda, California.
 Enclosure: (A) Drawing of modified signal.

1. Reference (a) requested permission of the Bureau of Ordnance to modify the Mk 4 practice bomb signal as a measure to eliminate the fire hazard when dropped on land targets. This permission was granted verbally by the Bureau of Ordnance (Section Mn2d) in a telephone conversation with the Ordnance Officer of Naval Air Station, Alameda, California. The Bureau of Ordnance requested that a description of the modified signal be forwarded to them and a copy to U.S. Flare Corporation, Box 590, San Fernando, California.

2. The modification of the subject signal consisted of removing the flash powder from the Mk 4 signal cartridge and replacing it with lamp black. The procedure is as follows:

- (a) Remove wadding from end of cartridge (with plastic tool).
- (b) Remove all flash powder from cartridge (approximately 28.4 grams) - Smokeless black powder is not touched.
- (c) Fill cartridge with lamp black (approximately 6.8 grams). It is felt that any type lamp black will do. The type used at Alameda was manufactured by Blacks Inc., Casimalia, California and is sold under the trade name of "Black Knight".
- (d) Tamp the lamp black into the cartridge and replace wadding.

3. Preliminary tests indicate that the fire hazard is greatly reduced and visibility is satisfactory when modified signal is used on dry land targets. It is not intended to use the modified signal on targets where fire hazard does not exist.

NAS, Alameda
 US Flare Corp.
 Box 590
 San Fernando, Calif.

s/ V. H. Ragsdale

NA27/F41
 071445-0524

F-9

8624
 E 10022
 3-12-53
 22

NAVAL SPEEDLETTER

35

AIR MAIL

File or
Serial No.

NAB12-80-or

Date

NL-13

Serial:

1567

27 April 1946

SPEEDLETTER

TO: CNO

Use in lieu of despatches, telegrams, teletypes, and mailgrams when appropriate.

Do not handle through Communication offices.

Despatch phraseology may be used.

Use size No. 9 window envelopes when appropriate and available.

If used for classified matter handle as prescribed in U. S. Navy Regs., Arts. 75½ and 76.

Upon receipt EXPEDITE HANDLING and DELIVERY as much as possible.

12ND
ComNavAirBases
Date

Subj: NAB, 12ND; data on post-war requirements of aviation gunnery areas; submission of.

Ref: (a) CNO disp 242020Z of 25 April 1946 to NAS, Alameda.

1. Reference (a) requests detailed information post-war requirements aviation gunnery areas, bombing, strafing, rocket, radar, fixed water borne targets, air support targets and torpedo dropping areas.

2. In compliance, data on location, description of installation, ownership status, lease numbers and expiration dates, and references to latest correspondence available concerning action taken for post-war retention are included in enclosure 1. It is to be noted that gunnery areas requested for retention do not include any torpedo dropping areas. Targets are manned by Fleet Air personnel during operations; four (4) men required per rocket target or a possible maximum of twenty (20) enlisted men. Crew of five (5) civilians required for maintenance.

By direction of ComNavAirBases:

Encl.

1. (HW) Tabulation of target and gunnery area data.

Copies to

- BuAer
- BuLocks
- ComNavSeaFron
- ComFair, W.C.
- ComFair, Alameda
- ComTwelve

Title and signature

MADISON MITCHOLS
Public Works Officer
Naval Air Bases, 12ND
NAS, Alameda

SENDER'S MAILING ADDRESS. (Including symbol or identity of originating office.)

Commander, Naval Air Bases, 12ND
U. S. Naval Air Station
Alameda, California

ATTENTION ADDRESSEE: Address reply exactly as indicated on right. →

UNITED STATES PACIFIC FLEET

FLEET AIR ALAMEDA

Q T /JGD712-egb

U. S. Naval Air Station
Alameda, California

Serial : 746

2 Feb 1946

From: Commander Fleet Air, Alameda.
To: Commandant, Twelfth Naval District.

Subject: Aviation Bombing Targets, Gunnery and Rocket Ranges
and Boat Facilities in Excess of Post-War Aviation
Requirements - Comment on.

Reference: (a) COMTWELFTH Ltr. WD12-80-gc M1-13/E2-14 Serial 11209
dated 28 January 1946

Enclosure: (A) Reference (a).

1. As requested in reference (a), enclosure 1 of reference
(a) has been reviewed.

2. The following comments are offered:

- (a) Target No. 3, San Mateo Bridge - No longer needed.
- (b) Target No. 5, Hollister - No longer needed.
- (c) Target No. 6, Vernalis - It is requested that this target be retained until June 1946.
- (d) Target No. 7, Crow's Landing - Enclosure 1 lists this incorrectly as Target No. 9. Target No. 7, Crow's Landing, is no longer needed; Target No. 9, Petaluma, is needed permanently.
- (e) Target No. 10, Antioch - It is requested that this target be retained until June, 1946.
- (f) Target No. 12, Big Lagoon - No longer needed.
- (g) Target No. 13, Humboldt Bay - No longer needed.
- (h) Target No. 17, Barnard - No longer needed.
- (i) Target No. 19, Fallen Area 3, - No longer needed.
- (j) Target No. 20, Schurz - No longer needed.

air force.

35

OT/JCH/12-agh

United States Pacific Fleet

Serial: 746

FLEET AIR ALAMEDA

2 Feb 1946

Subject: Aviation Bombing Targets, Gunnery and Rocket Ranges and Boat Facilities in Excess of Post-War Aviation Requirements - Comment on.

- (k) Target No. 21, Arcata - No longer needed.
- (l) Target No. 22, Gustine - No longer needed.
- (m) Target No. 23, Madera - This is an Army target which was to be used in accordance with a local agreement with the Army. However, it is not necessary for our purposes any longer.
- (n) Target No. 25, Levelock Area 1 - No longer needed.
- (o) Target No. 26, Levelock Area 2 - No longer needed.
- (p) Target No. 27, Levelock Area 3 - No longer needed.
- (q) Target No. 29, Jenner - It is requested that this target be retained until June 1946.
- (r) Target No. 30, Stewart's Point - No longer needed.
- ✓(s) Monterey Bay Torpedo Range - No longer needed and no land involved.

(s/ V. M. McBade
(Acting)

*

GUNNERY RANGES

ANTIOCH

Lease NOy(R)-35540 forwarded by Budocks approved letter June 10, 1944. Revocable permit from California Peat Company and Revocable Permit from Government to California Peat Company forwarded to Bureau of Yards and Docks 7 July 1944 for execution and approval. These permits cover 500 acres of land adjoining property covered by Lease NOy(R)-35540 and are to be used by the Government for bombing operations also.

CASTROVILLE

Budocks prepared draft of lease and forwarded same to Commandant Naval Air Center Alameda on 29 April 1944. No further record of negotiations contained in our files.

CROWS LANDING

Leases NOy(R)-35285 and NOy(R)-35532 approved by Budocks, negotiations completed.

FALLON

Fourteen leases have been successfully negotiated with owners, and forwarded for their execution. Five of these have been returned executed and forwarded to Budocks for approval. One lease is in the process of successful negotiation and it is expected will be drafted shortly. Three mines located within the activity have been a source of difficulty and no headway has been made with the owners. One parcel is definitely going to condemnation, namely, Berney. A trial is expected in connection with this parcel and preparations are being made for same. Two new claims have just arisen. Investigation has been made and negotiations started with one claim (these are mining interests) but no information is forthcoming as to the location of the other claim.

GUSTINE (Vicinity NAAS Crows Landing)

Request for acquisition of this area forwarded by first endorsement on Commandant, NAC, Alameda, letter August 11, 1944.

HOLLISTER

Lease NOy(R) 35804 approved by Budocks forwarded to Lessor. Negotiations completed.

LOVELOCK

Appraisals have not as yet been obtained on this area, therefore no

*

GUNNERY RANGES (Continued)

LOVELOCK (Continued)

negotiations for leases have been conducted.

PETALUMA

The owner of the property in this acquisition has refused to sign a lease for compensation offered him by the Navy Department. The Real Estate Division, Bureau of Yards and Docks in Brooklyn, New York is negotiating with the owner.

PYRAMID LAKE

Leases on the property involved in this acquisition have been executed by Lessors and forwarded to Budocks for approval.

SANTA ROSA (Vicinity NAAS Santa Rosa)

Commandant Naval Air Center Alameda by letter dated 9 Aug 1944 requested the acquisition of 144 acres for dive bombing practice. Forwarded to Budocks by 1st endorsement.

STEWARTS POINT

Commandant, NAC, Alameda has requested by letter dated July 25, 1944, that a leasehold interest be condemned in this property. Forwarded by 1st endorsement to Budocks.

VERNALIS

Lease NOy(R)-33956 executed by Lessor, approved by Budocks, and negotiations completed.

LABAU^o(Vicinity NAAS Fallon)

Proposed acquisition 9600 acres near Fallon. Commandant, NAC, Alameda letter forwarded by first endorsement dated 20 July 1944 with request that site be acquired.

TRINIDAD(Vicinity AAS Araata)

Request for acquisition of this area forwarded by first endorsement on Comdr. NAC Alameda letter of 11 July 1944

na(177)/H2-14

OFFICE OF THE CHIEF OF NAVAL OPERATIONS

- OP-06
- OP-09
- OP-01
- OP-
- OP-02
- OP-
- OP-
- OP-03
- OP-
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- OP-
- OP-04
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- OP-05
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- OP-06
- OP-
- OP-
- OP-08
- OP-
- OP-001
- ORD.
- AERO.
- SHIPS
- S&A
- Y&D
- M&S
- J.A.G.
- USMC

24 APR 1946

MR.

My Dear Mr. Johnson:

This is in further reply to your inquiry enclosing a letter from Mr. W. P. King in regard to the Navy bombing target No. 6 at Yuma, California.

The Navy regrets the fire hazard which resulted during the war years from the use of this bombing target and appreciated the feeling conveyed by the California Real Farmers Association, "that the training of our great forces came first".

I desire to assure you that use of the target in question has been discontinued effective as of March 28, 1946. It is contemplated that the Navy will effect cancellation of the leases pertaining to target No. 6 at Yuma in the near future and thereby permanently remove any danger of fire hazard from bombing operations.

I trust this information meets with your complete favor and again I wish to express the Navy's warm feeling toward the fine spirit and cooperation accorded at all times.

Sincerely yours,

R. E. JENNINGS
Rear Admiral USN

A.D.

Mr. Leroy Johnson
House of Representatives
Washington, D. C.

Copy to:
Date:

Original by [unclear] (6735)
23 April 1946 [unclear]

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Shore Establishments Division
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N12/NA27(3)
NA27(3)



Second Endorsement on Hon. Leroy Johnson,
M.C. ltr to SecNav with encls dtd
22 Mar 46, with BuDocks End-1 dtd
2 Apr 46, thereto.

RECEIVED
NAVY DEPARTMENT
EXOS - ROUTING SECTION

26517

H-2-14

4 6 9

5 APR 1946

From: Chief of the Bureau of Aeronautics.
To: Chief of Naval Operations.

Subject: Use of Vernalis Bombing Target No. 6,
Siskiyou County, California.

1. Forwarded. The basic correspondence concerns the abandonment of the Vernalis Bombing Target No. 6 by the Navy. Correspondence on this subject has been forwarded previously to the Office of the Chief of Naval Operations.
2. Congressman Leroy Johnson has been informed by this bureau that his letter has been forwarded to the Office of the Chief of Naval Operations for reply.

H. B. SALLADA
Rear Adm., USN
Chief of the Bureau of Aeronautics

CC: Com12
ComNA12
BuDocks

ans by Div 550 PS15
of 24 apr 46
FINISHED.....FILED
25 apr

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ND12/N1-13
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BUDOCKS End-1 on Hon. Leroy
Johnson, M.C. ltr to
SecNav with encls. dtd
3/22/46.

2- APR 1946

To: Chief of the Bureau of Aeronautics.
Subj: Use of Vernalis Bombing Target No. 6, Siskiyou
County, California.

1. The basic correspondence concerns the continued use of the subject facility and is forwarded for appropriate reply.
2. The Secretary's office has been advised of this reference.

4 6 9

L. F. Kelly
 L. F. Kelly
 Assistant Chief of Bureau

RECORDED MAIL

60930047

N1-9/NA27(3)
 N12/NA27(3)
 NA27(3)
 ND13

(all 12-22-11-22-3)

ON
MIA
THE
AFFAIRS

Congress of the United States
House of Representatives
Washington, D. C.

OFFICE:
WASHINGTON
228 House Office Building
MAR 23 1946
SACRAMENTO, CALIF.
POST OFFICE BUILDING
SACRAMENTO, CALIF.
OFFICE OF THE
SECRETARY OF THE NAVY

4 6 9

March 22, 1946

Honorable James Forrestal
Secretary of the Navy
Washington, D. C.

My dear Mr. Secretary:

I enclose herewith a letter jointly addressed to Congressman Bertrand W. Gearhart and myself with respect to damage done property belonging to Mr. Roy C. Hull, 900 N. Pershing Avenue, Stockton, California in connection with the use of the Vernalis Bombing Target No. 6 by the Navy.

I would appreciate your investigation of this matter.

Sincerely yours,

Leroy Johnson
Leroy Johnson *separate*
Member of Congress

Encl.

P. S. The feed situation is so critical in California that the loss of some grass feed might place the owner of sheep in a position where he could not get any feed to take care of his stock. That is why we are especially anxious to prevent any fires on the property of Mr. Hall.

L.J.

25-56
747
P

CALIFORNIA WOOL GROWERS ASSOCIATION

A Reply Address
Commandant
Twelfth Naval District
and refer to
ND12-80 Ky
E2-14
Serial 14268

OFFICE OF COMMANDANT
TWELFTH NAVAL DISTRICT
SAN FRANCISCO 2, CALIF.

25 February 1946

(12850)
Hon. Bertrand W. Gearhart
Congress of the United States
House of Representatives
Washington, D.C.

Hon. W. Leroy Johnson
Congress of the United States
House of Representatives
Washington, D.C.

California Wool Growers Association
915 Mission Street
San Francisco, California
Mr. Roy C. Hill, 900 N. Broadway Avenue, Stockton, California
one of ~~subject~~ **subject** ~~request for abandonment of Vernalis Bombing~~ **request for abandonment of Vernalis Bombing**
~~the Vernalis, California Bombing Target No. 3, U. S. Navy.~~ **Target No. 3, U. S. Navy.**

Gentlemen: I will during the war each year last has dry feed because of wild fires which were started on the bombing range.

In furtherance of the information contained in letter to you from this office of 25 February 1945 (in response to your letter of 5 February 1945) the following data are submitted:

The Commandant Twelfth Naval District has advised that it is anticipated the subject target area can be safely used by the Navy until about May 1, 1946, without causing any fire hazard. However, if the dry season should occur earlier than this date, the use of the target area will be discontinued before the district will cease using the Vernalis Bombing Target No. 3 after April 1. At that time the feed starts to dry.

It is believed that this information will satisfactorily answer your inquiry of letter from Capt. W. W. Schneider, Twelfth Naval District, San Francisco 2, California, which is self-explanatory, in which the Captain ~~in~~ **in** ~~very~~ **very** ~~truly~~ **truly** ~~yours,~~ **yours,** Vernalis Target area can be safely used by the Navy until about May 1 without causing fire hazard.

/s/ W. W. Schneider

We regret to state the Captain ~~is~~ **is** ~~convinced~~ **convinced** ~~we~~ **we** ~~also~~ **also** ~~copy~~ **copy** of letter we received from Mr. ~~Captain~~ **Captain**, ~~CEG, USN~~ **CEG, USN**

By direction of the Commandant
I ~~am~~ **am** ~~greatly~~ **greatly** ~~appreciate~~ **appreciate** if you will bring this matter to the attention of the proper Naval authorities at Washington, D.C. asking for an immediate investigation and pending such investigation to withhold using the Vernalis Bombing Target No. 3.

COPY

With kind regards,

Sincerely yours,

Secretary

F. E. McNEPP
Tide Lake, Stockton, Calif.

W. P. WING
Secretary-Treasurer

CALIFORNIA WOOL GROWERS ASSOCIATION

515
505 MISSION ST.
Corner S. F. Ave.
SAN FRANCISCO
California 94107

PUBLISHERS
THE CALIFORNIA WOOL GROWER
STOCKMEN'S SUPPLY DEPT.
CALIFORNIA RAM SALE

March 20, 1946

MAR 22 1946

Hon. Bertrand W. Gearhart
Congress of the United States
House of Representatives
Washington, D.C., California

Hon. J. Leroy Johnson
Congress of the United States
House of Representatives
Washington, D.C.

Dear Gent:

Dear Sirs:

In answer to your letter of February 26 regarding the bombing of Mr. Roy S. Hall, 508 N. Pershing Avenue, Stockton, California, one of my members, Gene and Louise Grading land in the vicinity of the Vernalis Bombing Target No. 8, District No. 8, California. District always to bomb this field until May 1st.

Mr. Hall during the war each year lost his dry feed because of wild fires which were started on the bombing target especially the south slopes will burn by or before April 1st.

We did not object during the war years because we felt the training of the Vernalis Bombing Target No. 8 was extremely important and the Navy should have a fire crew stationed at the field taking all necessary precautions to protect the area and those working there. We have since learned that the Vernalis Bombing Target No. 8 is to be used as a target for the Vernalis Bombing Target No. 8 until about May 1st. The Vernalis Bombing Target No. 8 is to be used as a target for the Vernalis Bombing Target No. 8 until about May 1st. The Vernalis Bombing Target No. 8 is to be used as a target for the Vernalis Bombing Target No. 8 until about May 1st.

Attached is copy of letter from Capt. W. W. Schneider, Training Officer, Vernalis Bombing Target No. 8, California. This letter states that the Vernalis Bombing Target No. 8 is to be used as a target for the Vernalis Bombing Target No. 8 until about May 1st without causing fire hazard.

With kind regards,

We regret to state the Captain is in error. We attach also copy of letter we received from Mr. Hall /s/ Roy Hall.

We shall greatly appreciate if you will bring this matter to the attention of the proper Naval authorities at Washington, D.C., asking for an immediate investigation and pending such investigation to withhold using the Vernalis Bombing Target No. 8.

With kind regards. C C P Y

4 6 9

Sincerely yours,

W. P. Wing
Secretary

Wing
Stockton, Calif.

ROY HULL
Phone 3-9202
900 N. Pershing Avenue
Stockton, California

Mr. W. F. King
915 Mission Street
San Francisco, California

Dear Chet:

Answering your letter of February 26 regarding the bombing field.

The Commander of Naval Air Bases for the Twelfth Naval District expects to bomb this field until May 1st.

We are having a dry year. Our country and especially the south slopes will burn by or before April 1st.

Bombing after that time will be extremely hazardous and the Navy should keep a fire crew stationed at the field during all bombing after Mar 20 or 25 this year. There is not much grass there but I need it this year more than ever in my life. If the Navy burns that country this season it will be a serious thing as summer feed is not going to be available at any price for any extra livestock.

I will do everything in my power to make them responsible should the range burn this year.

I thank you very much for this chat and I appreciate your effort. I have not communicated with any Navy personnel and am leaving the job to you.

With kind regards,

/s/ Roy Hull

4 6 9

COPY

IMPORTANT

PROPERTY OF THE NAVAL OPERATIONS CENTER

COPY

NAVAL AIR BASES, TWELFTH NAVAL DISTRICT
U. S. NAVAL AIR STATION
ALAMEDA, CALIFORNIA

NAB12-01-he
N1-13
Serial 1928

29 OCT 1947

From: Commander, Naval Air Bases, Twelfth Naval District.
To: Commandant, Twelfth Naval District.
Subj: Inactivated Auxiliary Air Stations in the Twelfth Naval District.

1. This command has been unable to lease or permit all facilities not in use by the government at the following inactivated Naval Auxiliary Air Stations in the Twelfth Naval District:

Vernalis
Livermore
Santa Rosa
Crows Landing

2. The Commandant is cognizant of those facilities which have been leased, permitted, or those on which action is pending.

3. It is requested that any action feasible be taken to negotiate leases or permits for the facilities at the above stations that are not used by the government. Detailed information on these stations will be furnished promptly on request.

/s/ W. E. Ellis
W. E. ELLIS
By direction

cc: BuDocks
CNO OP-56D
BuAer
CNAB11&12

Ordnance and Explosives
Archives Search Report
For
Vernalis Bombing Target No. 6
San Joaquin, California
Project Number J09CA747301

APPENDIX G

REAL ESTATE DOCUMENTS

(Not Used)

Ordnance and Explosives
Archives Search Report
For
Vernalis Bombing Target No. 6
San Joaquin, California
Project Number J09CA747301

APPENDIX H

NEWSPAPERS / JOURNALS

APPENDIX H

NEWSPAPERS / JOURNALS

Table of Contents

H-1 TRACY PRESS, "Exploding Bomb Injures 2 Youths", Jan 3, 1947. (B-*).

H-2 TRACY PRESS, "Vernalis Naval Air Base will be Discontinued", 28 September 1945.

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H-1



Touch

Charles Monquist of Oakdale, after quite a few too many snorts and a punch in the nose, decided that he wanted to drive his car. His wife, however, would not allow it and so he decided to hoof it. He was staggering down the highway in the rain when Constable Ben Canale saw him and immediately put him in the cooler. He pleaded guilty when tried and paid a \$15 fine.

John Nunes, picked up up for being drunk, received a 30 day jail sentence and a year's floater when tried last Friday morning by Judge Fen Jackson.

Archie Smith received five days on the work gang as his reward for consuming too much booze.

New Rotarians Give Autobiographies

Last Tuesday was autobiography day at Rotary when luncheon was served at Tracy Inn. New members Archie Furr, Phil Fleisig, Dan Owen, Stewart Douglas, Dr. A. Menberg, Alfred Souza and Bob Sch, gave a short story of their

many eyes have been lost due to the careless handling of B-B guns. The three boys left minus their guns which should be reason for the other local owners of B-B guns not to shoot same in city limits.

Exploding Bomb Injures 2 Youths

Thursday, December 26, three boys, Bill Fisk, 13; George Bogetti, 16, and Al Bogetti, 15, were scouting around the Navy bombing range near Lone Tree canyon and found a number of bombs which they decided to melt for their lead content.

The boys brought the bombs to a work shop on the Fisk ranch and proceeded to melt the bombs. Just before noon Mrs. Fisk heard a terrible explosion and rushed out to see what had happened. She found her son, Bill, had been burned on the face, one eyebrow had been scorched off. George Bogetti also received face and body burns although he had on three shirts. Al Bogetti was not hurt as he was bending down operating the forge.

Mrs. Fisk rushed the boys to a local doctor. They fortunately had only receive minor first and second degree burns and no damage had been done to their eyes. However, if it hadn't been for a heavy anvil near the forge which broke the force of the blast the boys might have received serious injuries. Mrs. Fisk hopes that this accident will serve as a warning to others not to play with bombs.

Cost of Fire Hose High, Says Judge

Chief Roxy Hudson announced this week that the fire department wants to formally thank the person who drove an old Chevrolet sedan over an empty fire hose while the fire department was attending a fire on the South Side Thursday, December 26.

The firemen were too far away from the scene of the hose flatten-

two extra men on his pounce force for New Year's Eve in anticipation of any at might happen. Although were probably many more than so people more than slightly inebriated, only two were locked up.

Jess Silva entered the police department and began pestering the desk clerk. He asked for a place to sleep and said he was there because he wasn't his problem, he was the police's problem. He was given a bed behind locked doors. Carl Marshall was brought in for being drunk and disturbing the peace at the Terminal Grill.

Vernon Arthur Paris drove into a ditch digger at Parker and Lowell and was momentarily knocked out. He suffered bruises and his car was damaged.

Bessie Jackson Dies This P. M.

Mrs. Bessie Jackson, 56, wife of Fen Jackson and a member of the pioneer Parker family of Tracy, passed away at her home, corner Adam and 12th, this afternoon (Thursday) after an illness of several weeks. Funeral services will be held Saturday afternoon, January 4, at 2 o'clock, from Hotchkiss Mortuary. Interment will be in Tracy cemetery.

Father of Frank Hoyt Dies In Oakdale

Edward R. Hoyt passed away at Oakdale hospital last Tuesday, December 31, after an illness of several weeks. He was a resident of Bayard, Nebraska and the father of Frank L. Hoyt. He became ill while visiting his son here.

Hotchkiss Mortuary is in charge of the body which was shipped to Bayard Thursday evening.

Too Many Drunks; Same Old Story

Byron Norman, arrested for intoxication Saturday evening, December 28, put up \$50 bail and then forfeited it by not showing up at

ing and making friends for Heinz. We realize, therefore, that our first and most important obligation is to the company's employees."

Another section of the book entitled, "This is what we stand for" details the five basic principles of Heinz' employe policy: Equal opportunities for advancement for all employes, maintenance of wage rates at highest possible levels, maintenance of reasonable working hours, steady employment and encouragement of friendly and co-operative relationships between all employees.

Several pages are devoted to the many opportunities and advantages provided by the company, such as plant cafeterias (Heinz was one of the first American industrial firms to provide employee cafeterias), health and welfare services, recreational facilities, suggestion awards, service awards, paid vacations, company stores, and others.

The book points out that virtually every sales manager, factory manager, supervisor and foreman "came up through the ranks," and it stresses the fact that the company's record of job security has been maintained at a high level.

Another section is devoted to management. Here it is shown that eleven of the twelve company directors are operating officials, having an average of twenty-five years of service.

In a company so large and as widespread as Heinz, it is difficult for many an employe to understand readily why his individual job is so important and how it is related to the thousands of other jobs. The book describes each department briefly, but comprehensively enough that each employe can see how his job fits into the overall pattern.

There also is a short history of the company's growth since 1869, and several pages are devoted to the food industry in general to show that the employees are engaged in America's largest business. One of every five persons in the U. S. is engaged in some branch of the food business... more one-third of every dollar

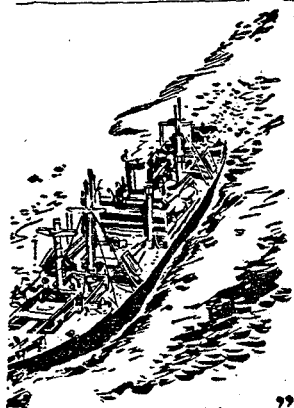
1st Page - Tracy Press - Jan 3, 1947

Coast Ports Billions as

st report of the move-
ops and supplies into
the War Department
oday that nearly two
lf million troops and
44 million ship tons of
sent from the Army's
ports of embarkation
15 months from Decem-
ough August 1945.
sportation feat was so
that it was equivalent
ing entire population of
f Louisiana (or Florida,
Mississippi) over some
10 miles of ocean to for-
scattered all the way
Zerland to Japan, and

Welding And Blacksmith Shop

11th and McArthur
er management of
R. NEWPORT
Phone 281-J
AIRING, CUTTING
and WELDING



S. McCoy

BUILT WITH
FINANCING

Vernali Naval Air Base Will Be Discontinued

The Navy Department in Wash-
ington has announced that the Ver-
nalis Air Base will be abandoned
between now and the middle of
1946. The Crows Landing Auxiliary
station will be retained as one of
the 28 permanent aviation centers
on the Pacific Coast.

then carrying to it not only sup-
plies necessary for feeding, cloth-
ing and medical care but also the
firepower necessary to defeat the
fanatical Japanese enemy.

America's mighty battle strength
funnelled to fighting fronts half a
world away through three major
ports and two sub-ports operated
by the Army Transportation Corps.
The San Francisco Port of Em-
barkation handled the bulk of the
load, with 1,655,000 troops embark-
ed and 22,751,000 ship tons of cargo
outloaded. Troops passing through
the Golden Gate were processed
at Camp Stoneman, Pittsburgh, Cal.,
and Fort McDowell, Angel Island,
California the port Staging Areas.

Khaki-clad Americans to the to-
tal of 524,000 and supplies to the
tune of 10,219,000 ship tons moved
to the Pacific through the Seattle
Port of Embarkation. Fort Lawton,
Washington was the staging area
for the great Northwest port.

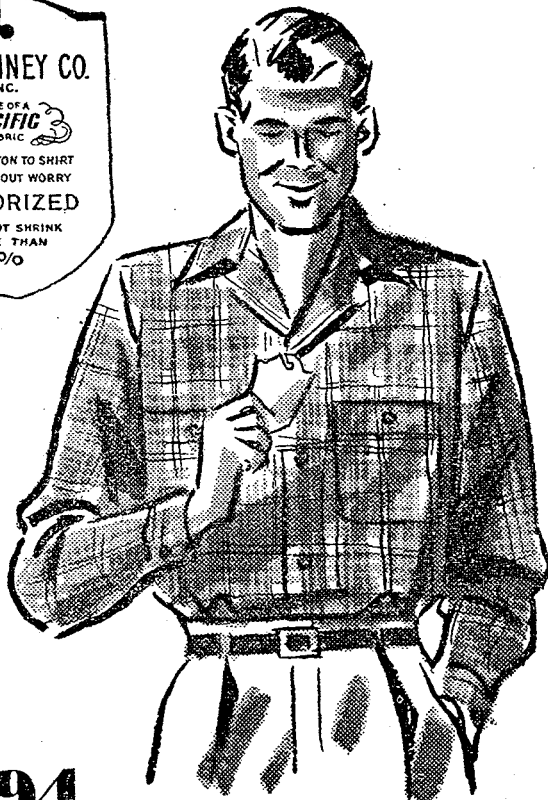
The Portland Sub-Port, adminis-
tered under the Seattle Port's con-
trol, handled 53,000 troops through
the Vancouver Barracks staging
area, and 1,731,000 ship tons of
cargo.

Another Seattle Sub-Port, Prince
Rupert, British Columbia, embark-
ed 31,000 troops and shipped 940,000
ship tons of supplies. There, troops
were processed through a staging
area located at Fort Edward, B.C.

The Los Angeles Port of Em-
barkation at Wilmington, Calif.,
handled 188,000 troops and 8,645,000
ship tons of cargo. Troops passing
through this port were staged at
Camp Anza, Calif.

The rapidly-increasing build-up
of American power in the Pacific
is best shown by the sharp annual
gains in embarkations and ex-
The year 1942 saw 368,000 t.
and 5,746,000 ship tons of carg
ing to the Pacific through
Transportation Corps' Pacific ports.
The record for the next year was
566,000 troops embarked and 10,000-
000 ship tons of supplies outloaded.
In 1944 780,000 American soldiers

IT'S THE FABRIC THAT COUNTS IN
UTILITY SHIRTS



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H-2

Ordnance and Explosives
Archives Search Report
For
Vernalis Bombing Target No. 6
San Joaquin, California
Project Number J09CA747301

APPENDIX I

INTERVIEWS

APPENDIX I

INTERVIEWS

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- I-1 Conversation Record with, Mrs. Sheila Elworthy,
Elworthy Ranching Business Manager and Daughter-in-law
of the owners, 13 February 2001.
- I-2 Conversation Record with, Albert Bogetti, 13 February
2001.
- I-3 Conversation Record with, George Delap, Former
Employee at Vernalis NAAS and Crows Landing NAAS, 12
February 2001.

CONVERSATION RECORD		TIME	DATE 13 February 2001
TYPE			
<input type="checkbox"/> VISIT		<input type="checkbox"/> CONFERENCE	<input checked="" type="checkbox"/> TELEPHONE <input type="checkbox"/> INCOMING <input type="checkbox"/> OUTGOING
NAME OF PERSON CONTACTED Mrs. Sheila Elworthy	ORGANIZATION Elworthy's Business Manager Daughter-in-law of the owners	TELEPHONE NO. 510-582-6693	
SUBJECT Right of Entry			

SUMMARY

Sheila Elworthy called me on 13 Feb 01 and told me we had permission to go on the Elworthy's property. She had just got off the phone with the Sheriff (Lt. Rector) and she said he believes we are from the U.S. Army Corps of Engineers (because we had visited with him last week) and we are just checking their land for an old WWII bombing site. They were not a where there was a bombing range out there even though they had just bought the site just a few years ago.

I asked if there was anyone who could escort us to the site and she said no because her husband with heading for Daytona (Daytona 500) today and her father-in-law had just hurt his hand in a backhoe but she could give us directions to the site and give us the combinations to the locked gates.

We got the directions and told her we would call her and the Sheriff as soon as we left her property. (We were on site from 10:30 until 16:30).

Note: Sheila Elworthy is the daughter-in-law of Hebert Elworthy, the owner. She handles the business affairs for their ranching operation. They are very cautious whom they let on their land. Any farther communication should be through Sheila Elworthy first.

ACTION REQUIRED None		
NAME OF PERSON DOCUMENTING COVERSATION Jon P. Jones	ORGANIZATION CEMVR-ED-DO	TELEPHONE NUMBER (309) 782-1493
SIGNATURE	TITLE	DATE

CONVERSATION RECORD		<i>TIME</i> 09:00	<i>DATE</i> 13 Feb 2001
<i>TYPE</i>			
<input checked="" type="checkbox"/> VISIT		<input type="checkbox"/> CONFERENCE	<input type="checkbox"/> TELEPHONE <input type="checkbox"/> INCOMING <input type="checkbox"/> OUTGOING
<i>NAME OF PERSON CONTACTED</i>	<i>ORGANIZATION</i>	<i>TELEPHONE NO.</i>	
Albert Bogetti		(209) 835-2471	
<i>SUBJECT</i> Vernalis Dive Bombing Range #6			

SUMMARY

My brother, George, and I used to take the small lead practice bombs from the bombing range, melt them down after insuring that the spotting charges were either expended or taken out of the bomb bodies. We would lay in wait and watch the planes bomb the hillside, then pickup the bombs whenever the planes left the area. One occasion we brought along a friend to help, (Bill Fisk). After recovering the bombs, we headed for a smelter to melt down the bombs. Our friend missed one of the spotting charges, which blew up in the forge spraying us with molten lead. Luckily, no one was seriously burned although some of the lead did go through the triple layers of shirt that I was wearing. A while later, maybe several months, we went back to get more bombs, but it looked like the Navy had cleaned up the hill, because we didn't find anymore of the small lead bombs. (Mk 19 and M23's)

See Document H-1

<i>ACTION REQUIRED</i>		
None		
<i>NAME OF PERSON DOCUMENTING COVERSATION</i>	<i>ORGANIZATION</i>	<i>TELEPHONE NUMBER</i>
Jon P. Jones	CEMVR-ED-DO	(309) 782-1493
<i>SIGNATURE</i>	<i>TITLE</i>	<i>DATE</i>

CONVERSATION RECORD	TIME	DATE 12 February 2001
----------------------------	------	--------------------------

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

NAME OF PERSON CONTACTED George Delap	ORGANIZATION Former Employee at Vernalis NAAS and Crows Landing NAAS	TELEPHONE NO. (209) 835-4566
---	--	--

SUBJECT *Vernalis Bombing Target*

SUMMARY

Mr. George Delap was a former employee at the Vernalis / Crows Landing NAAS. He informed the inspection team that he worked the flight line at the base. He worked at the catapult system. He informed the inspection team that there was no aircraft ordnance (practice or HE) on Vernalis NAAS. It was strictly take off practice only. No ordnance was on the aircraft during this training. He informed the inspection team the aircraft that bombed at the bombing targets west of Vernalis NAAS came from the bay area but was not sure where.

Note: Mr. George Delap worked most of the time at Crows Landing NAAS. He only came up to Vernalis NAAS to work the catapult system. The site team believes that any bombing operations would have stopped on those days because of the close proximity of Vernalis Bombing Target No. 6. Performing catapult training and dive-bombing practice in those close quarters would have been very difficult.

ACTION REQUIRED

None

NAME OF PERSON DOCUMENTING COVERSATION <i>Jon P. Jones</i>	ORGANIZATION CEMVR-ED-DO	TELEPHONE NUMBER (309) 782-1493
SIGNATURE	TITLE	DATE

Ordnance and Explosives
Archives Search Report
For
Vernalis Bombing Target No. 6
San Joaquin, California
Project Number J09CA747301

APPENDIX J

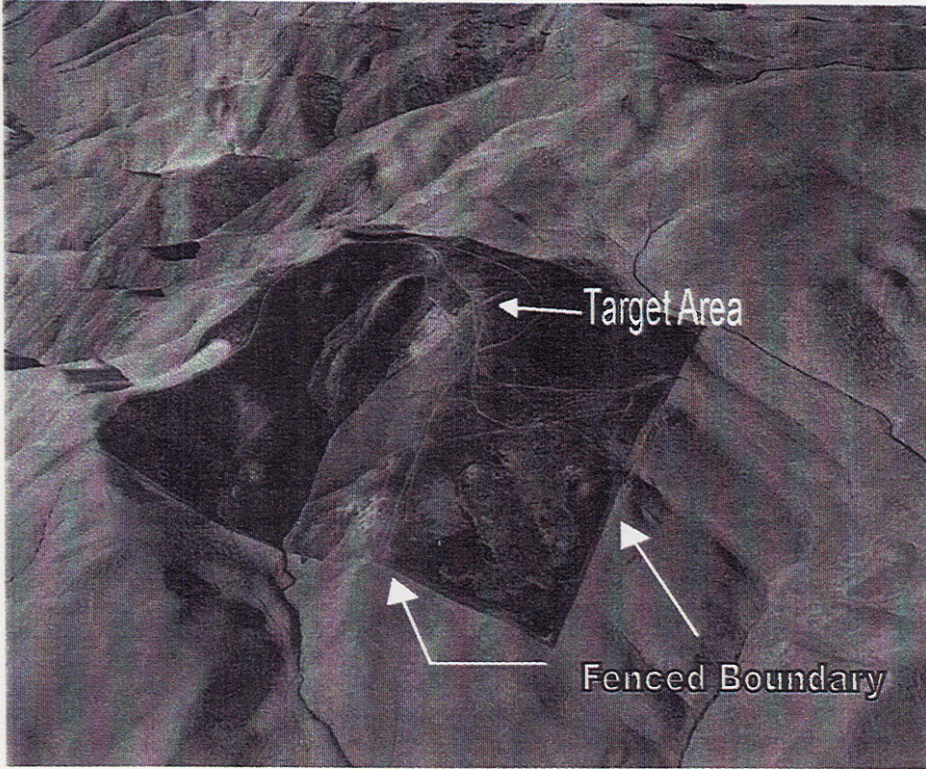
PRESENT SITE PHOTOGRAPHS

APPENDIX J

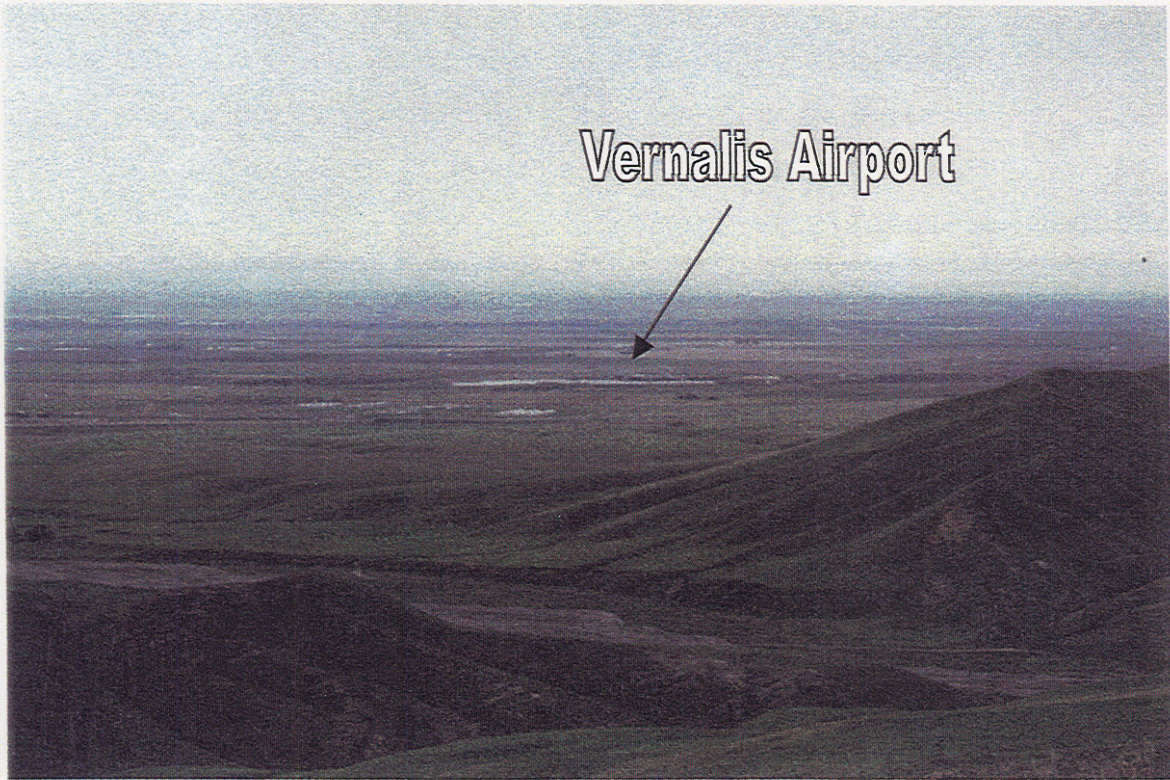
PRESENT SITE PHOTOGRAPHS

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- J-2 Area A: Looking from Vernalis Bombing Target No. 6 towards Vernalis Airport.
- J-3 Area A Looking from target towards the assumed observation area
- J-4 Area A: The area west of the target area.
- J-5 Area B: Looking from Observation Area towards Hospital Creek
- J-6 Area A: Looking from Vernalis Bombing Target No. 6 towards the North East.
- J-7 Area A: Target Area, White Rock that marked out the silhouette of the target.
- J-8 Area A: Target Area, Mk 15 Practice Bomb Scrap.
- J-9 Area A: Target Area, Mk 15 Practice Bomb fin Scrap.
- J-10 Area A: Target Area, Mk 15 Practice Bomb Scrap.
- J-11 Area A: Target Area, Mk 15 Practice Bomb Scrap.
- J-12 Area A: Target Area, Mk 15 Practice Bomb Scrap.
- J-13 Area A: Target Area, Mk 15 Practice Bomb Scrap.
- J-14 Area A: Target Area, Mk 15 Practice Bomb Scrap.
- J-15 Area A: Target Area, Mk 15 Practice Bomb Scrap.
- J-16 Area A: Target Area, Mk 15 Practice Bomb Scrap.
- J-17 Area A: Target Area, Mk 15 Practice Bomb Scrap.
- J-18 Area A: Target Area, Mk 15 Practice Bomb Scrap.
- J-19 Area A: Target Area, Mk 15 Practice Bomb Scrap.
- J-20 Area A: Target Area, Mk 19 Practice Bomb Scrap.



J-1 Area A: Target Area and Fenced Boundary



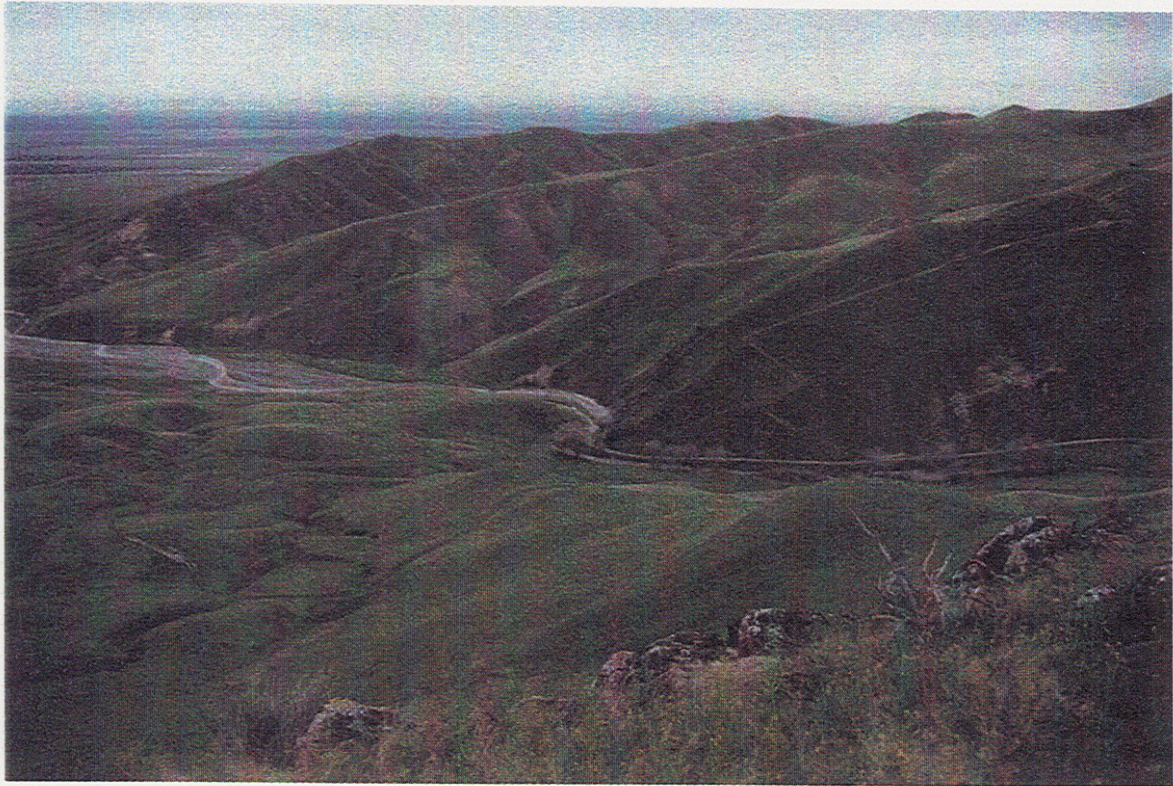
J-2 Area A: Looking from Vernalis Bombing Target No. 6 towards Vernalis Airport.



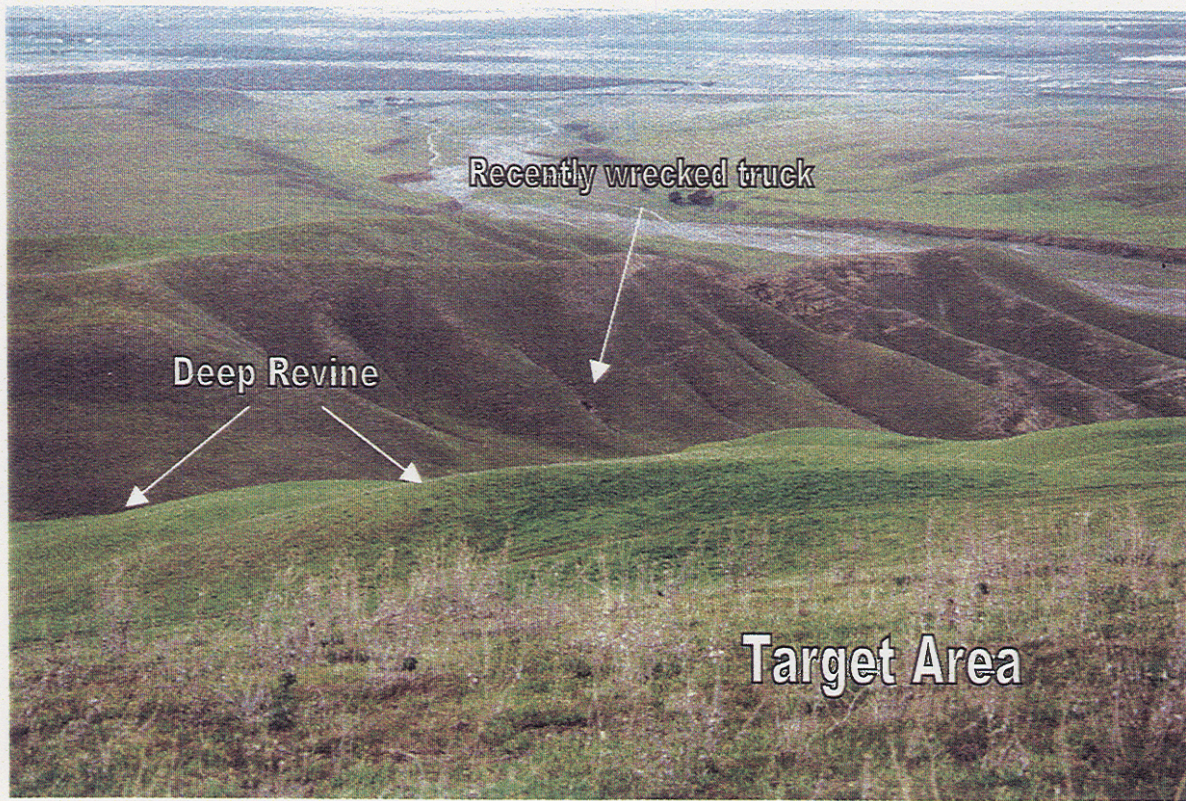
J-3 Area A Looking from target towards the assumed observation area



J-4 Area A: The area west of the target area.



J-5 Area B: Looking from Observation Area towards Hospital Creek



J-6 Area A: Looking from Vernalis Bombing Target No. 6 towards the North East.



J-7 Area A: Target Area, White Rock that marked out the silhouette of the target.



J-8 Area A: Target Area, Mk 15 Practice Bomb Scrap.



J-9 Area A: Target Area, Mk 15 Practice Bomb fin Scrap.



J-10 Area A: Target Area, Mk 15 Practice Bomb Scrap.



J-11 Area A: Target Area, Mk 15 Practice Bomb Scrap.



J-12 Area A: Target Area, Mk 15 Practice Bomb Scrap.



J-13 Area A: Target Area, Mk 15 Practice Bomb Scrap.



J-14 Area A: Target Area, Mk 15 Practice Bomb Scrap.



J-15 Area A: Target Area, Mk 15 Practice Bomb Scrap.



J-16 Area A: Target Area, Mk 15 Practice Bomb Scrap.



J-17 Area A: Target Area, Mk 15 Practice Bomb Scrap.



J-18 Area A: Target Area, Mk 15 Practice Bomb Scrap.



J-19 Area A: Target Area, Mk 15 Practice Bomb Scrap.



J-20 Area A: Target Area, Mk 19 Practice Bomb Scrap.

Ordnance and Explosives
Archives Search Report
For
Vernalis Bombing Target No. 6
San Joaquin, California
Project Number J09CA747301

APPENDIX K

HISTORICAL PHOTOGRAPHS

APPENDIX K

HISTORICAL PHOTOGRAPHS

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- K-1. Aerial Photograph, 7 November 1943, Naval Air Station Alameda, Oblique of Vernalis Bombing Target No. 6 at an altitude of 5000 feet (B-23).
- K-2. Aerial Photograph of NAAS Vernalis at 5000 feet; 7 November 1943 (B-24).
- K-3. Aerial Photograph of Bomb Silhouette, June 1952, from the USDA Rural Development Office, Stockton, California, (B-25)

NUMBER

DATE

7 Nov. 1943

TAKEN BY:

NAS Alameda

LOCATION:

SUBJECT:

Oblique of AAS Vernalis, Cal.
Alt. 5000'; F.L. 8.25". Look-
ing southwest.

RELEASED FOR PUBLICATION:

DECLASSIFIED
E.O. 12356, Sec. 3.3
NND 750090
CONFIDENTIAL
RG 80, Series G

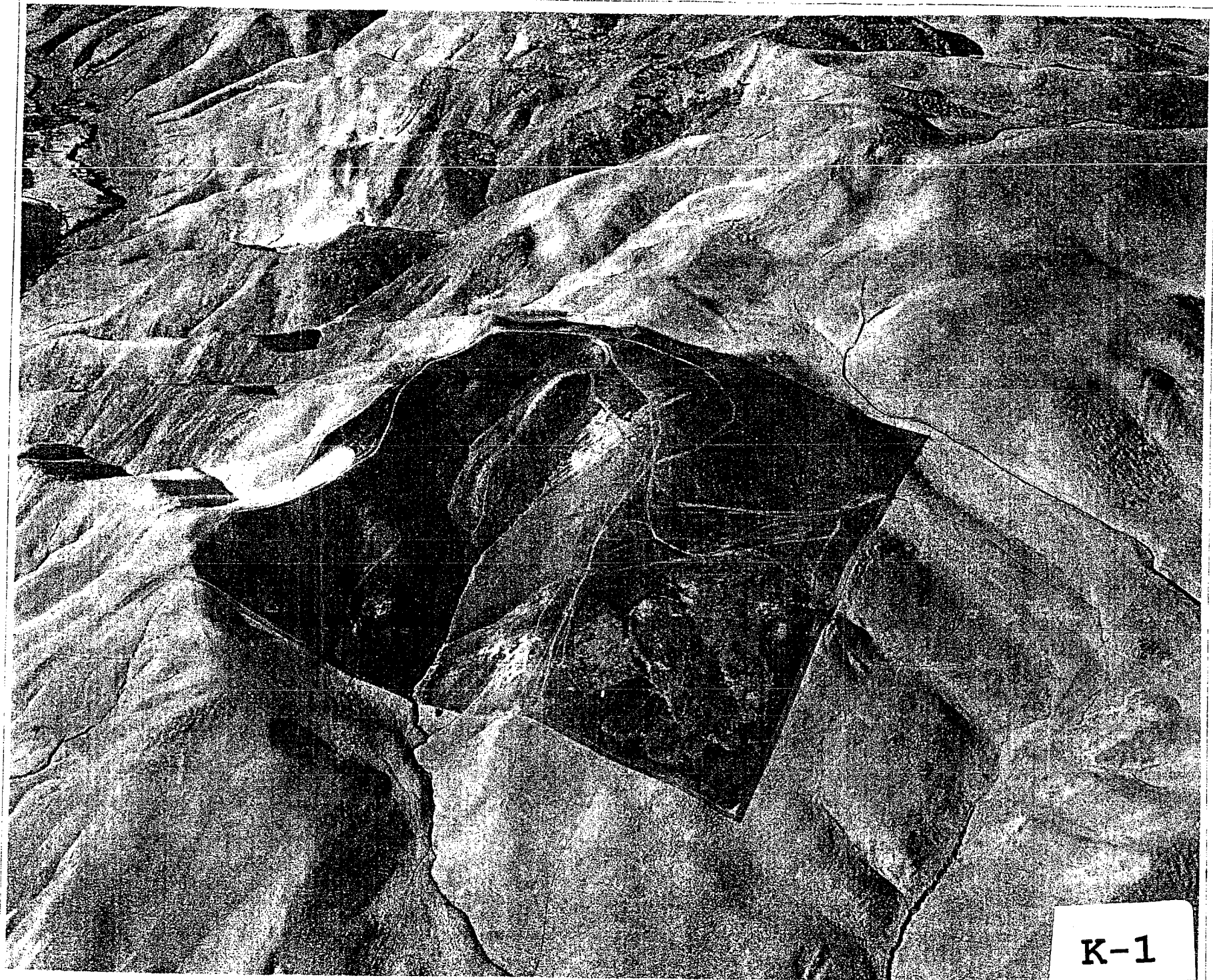
DATE:

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REPRODUCED AT THE NATIONAL ARCHIVES

200707 JEG

NAVAER-152



K-1

NUMBER

DATE

7 Nov. 1943

TAKEN BY:

NAC Alameda

LOCATION:

SUBJECT:

Oblique of AAS Vernalis, Cal.
Alt. 5000'; F.L. 9.25".
Looking northeast.

RELEASED FOR PUBLICATION:

DECLASSIFIED
E.O. 12356, Sec. 3.3
NND 750090
RG 80, Series G

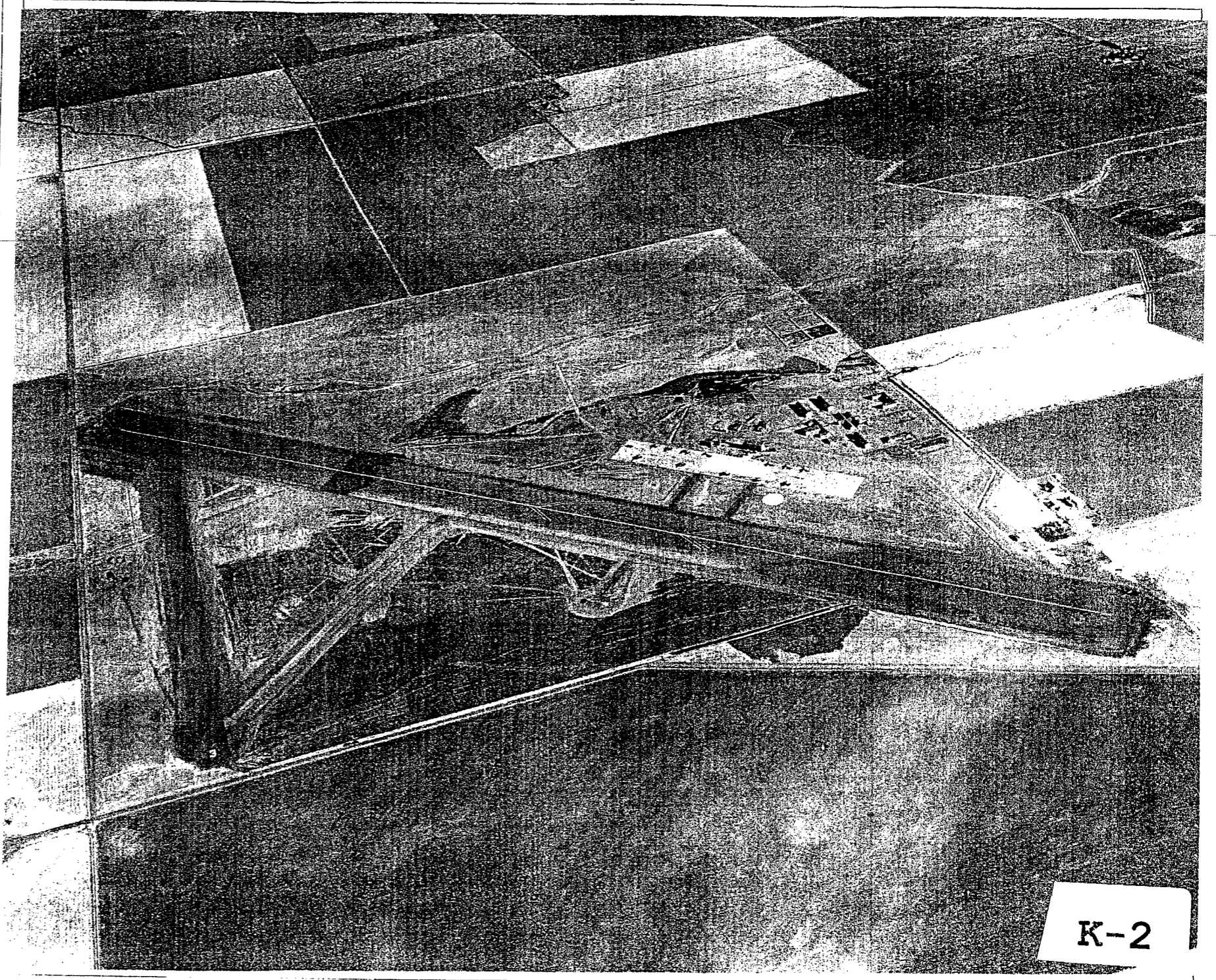
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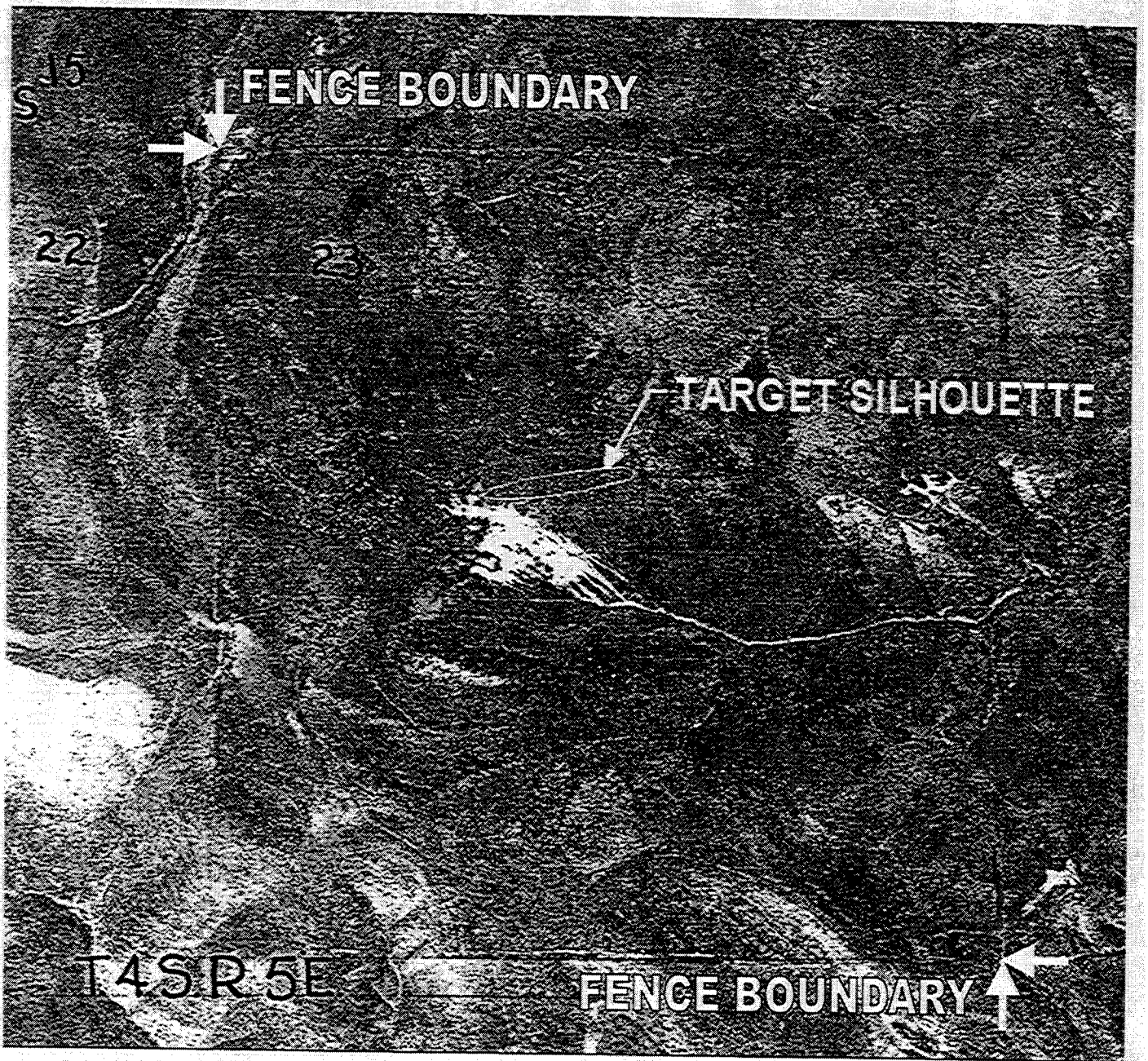
200705 EP

NAVAER-152



K-2

200705-EP
11-11-43
88-9



Ordnance and Explosives
Archives Search Report
For
Vernalis Bombing Target No. 6
San Joaquin, California
Project Number J09CA747301

APPENDIX L

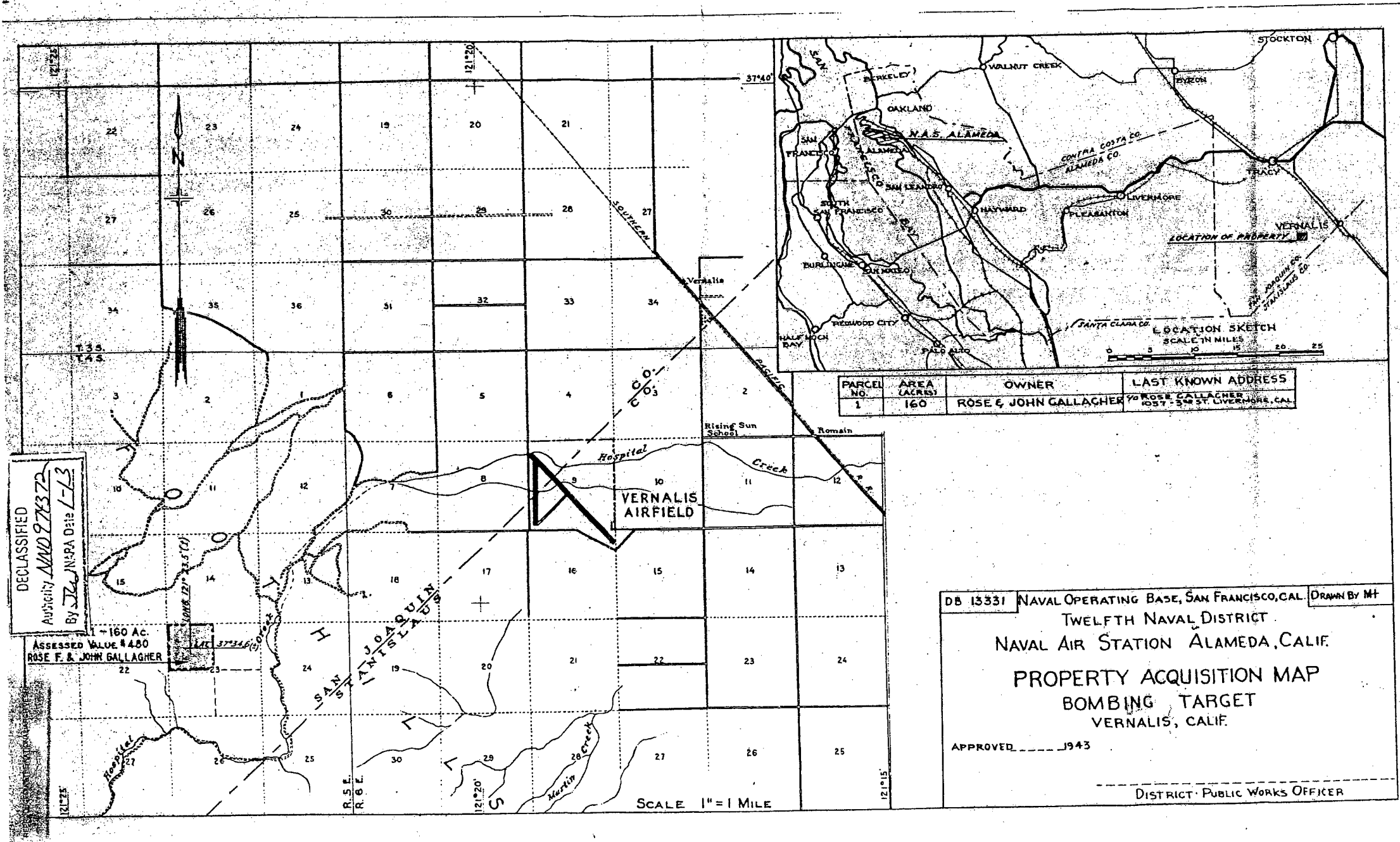
REFERENCE MAPS / DRAWINGS

APPENDIX L

REFERENCE MAPS / DRAWINGS

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- L-2 Map, "Owners Plot map" San Joquinn County. (B-*)



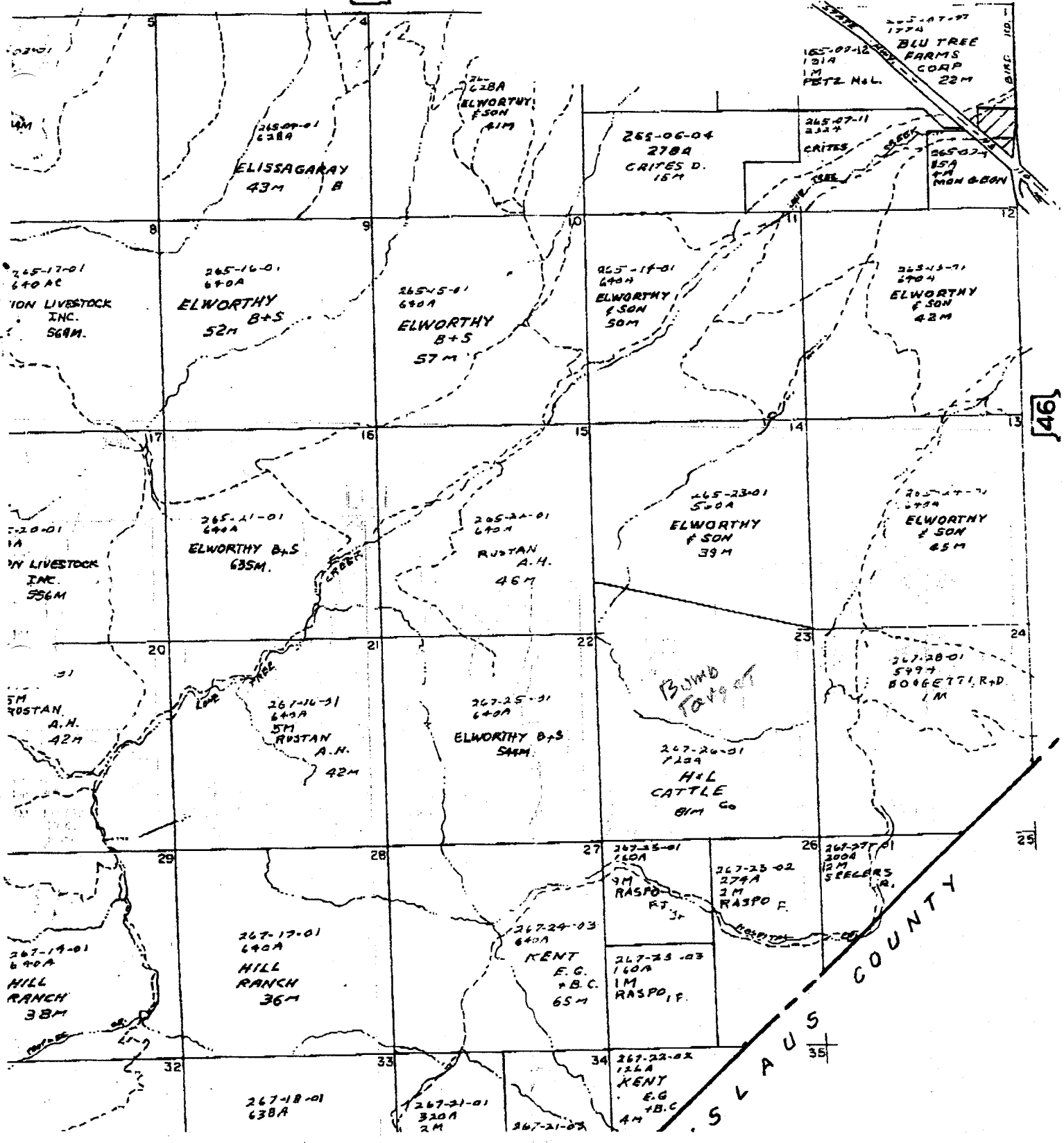
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 Authority: NND 978372
 By: JZL/NARA Date: 7-13

~ 160 Ac.
 ASSESSED VALUE \$480
 ROSE F. & JOHN GALLAGHER

PARCEL NO.	AREA (ACRES)	OWNER	LAST KNOWN ADDRESS
1	160	ROSE & JOHN GALLAGHER	790 ROSE GALLAGHER 1037 - 542 ST. LIVERMORE, CAL.

DB 13331 NAVAL OPERATING BASE, SAN FRANCISCO, CAL. DRAWN BY MH
 TWELFTH NAVAL DISTRICT
 NAVAL AIR STATION ALAMEDA, CALIF.
PROPERTY ACQUISITION MAP
BOMBING TARGET
 VERNALIS, CALIF.
 APPROVED _____ 1943

 DISTRICT PUBLIC WORKS OFFICER



46

S LAUS COUNTY

PLAT 47

(2+)
Henry Philip N.
19689 San Ramon Vily
San Ramon CA.94583
Plat 10 Sec 10+

N99 (1)
Hersford Elizabeth A.
27901 Brucella Rd.
Galt CA.95632
Plat 3 Sec 33

C99 C97 N93 (8+)
Heritage Land Co. Inc.
P.O.Box 487
Stockton CA.95201
Plat 16 Sec 19+
18 13+

Hernandez Ray V.
& Lupe F.
5893 Ember Dr
San Jose CA.95123
Plat 49 Sec 3

(1+)
Hernandez Sam
& Marcio A.
4893 Kingdon Rd
Lodi CA.95242
Plat 16 Sec 13

Hemeltine Leah B.
P.O.Box 100
Clements CA.95227
Plat 10 Sec 14
11 22

N91
Hi Hopes Venture Ptp.
2120 W Lodi Ave.
Lodi CA.95242
Plat 14 Sec 7

Hicken Grant K.
& L.K.
28225 S Manteca
Manteca CA.95337
Plat 45 Sec 5

N99
Hickman Perry
& Maria
17126 Steingal Rd.
Escalon CA.95320
Plat 35 Sec 1

N99 (3)
Hidden Vineyards
18501 E Milton Rd.
Linden CA.95236
Plat 22 Sec 26

Hieb Melvin
& V. Trust
10726 E. Harney Ln
Lodi CA.95240
Plat 14 Sec 23+

(1+)
Hildebrand Alexander
& B.F.
23443 S.Hays Rd
Manteca CA.95337
Plat 39 Sec 23

N97 (8+)
Hilder Family Properties Ptp.
P.O.Box 215
Galt CA.95632
Plat 7 Sec 1+
R 6+

N99 (8+)
Hill Ranch
518 Grimes Ave.
Modesto CA.95358
Plat 47 Sec 30+
50 6

C89
Hill Robert G
& L.M.
P.O.Box 340
Clements CA.95227
Plat 2 Sec 34

Hilvers Ike
& Clara Mae.
11069 E. West Ripon
Ripon CA.95366
Plat 38 Sec 23

C95
Hinrichs Eric
& S N
19200 S Jack-Tone Road
Manteca CA.95336
Plat 37 Sec 6

C99 C95 C93 C91 C89
Hinrichs Karl
& Laura
5196 Piccadilly Circle
Westminster CA.92683
Plat 38 Sec 27

N99 (8+)
H & L Cattle Co.
P.O.Box 97
San Ramon CA.94583
Plat 47 Sec 23+

C99 C93 N91 (4)
HMS Properties Ptp.
2771 French Camp Rd.
Manteca CA.95336
Plat 13 Sec 15+

(1+)
Hoff Henry & Sons
22357 S. Warren
Ripon CA.95366
Plat 33 Sec 20+

N97
Hoff Jay Henry
& Linda J Trust
1543 Warren Rd
Ripon CA.95366
Plat 37 Sec 18

Hofheinz F.
& Carol
7956 Foppiano Avnmate
Stockton CA.95212
Plat 21 Sec 9

(3+)
Hofman Dirk
& Linda C. Trs.
6048 E. Trahern Rd
Manteca CA.95337
Plat 37 Sec 18
45 5

(2+)
Hofman Gerrit
& P.L.
4820 E. Perrin
Manteca CA.95337
Plat 38 Sec 31

Hofmann Eugene Tr.
30972 E. Lone Tree
Oakdale CA.95361
Plat 35 Sec 26+

Hofmann H.Estate
3844 Cougar Place
Modesto CA.95356
Plat 35 Sec 25

C95
Hogan Mark
6031 Skilton Road
Modesto CA.95356
Plat 36 Sec 2

N91 (8+)
Hogan Mig. Inc.
P.O.Box 398
Escalon CA.95320
Plat 25 Sec 5+
36 6+

C99
Hogan Ranch
11051 E Baker Rd.
Stockton CA.95215
Plat 14 Sec 19

N93
Hogan Rick
& Linda
P.O.Box 68
Manteca CA.95366
Plat 38 Sec 12

Holder Carl J.
& E.B.
24383 Patterson Pass
Tracy CA.95376
Plat 41 Sec 28

N97 (8+)
Holdener Robert C
24383 Patterson Pass
Tracy CA.95376
Plat 41 Sec 21

13959 E. Clinton
Ripon CA.95366
Plat 37 Sec 10+

(8+)
Holly Sugar Corp.
P.O.Box 60
Tracy CA.95376
Plat 40 Sec 4+

N97
Holmes Dan C
& Janet
P O Box 476
Escalon CA.95320
Plat 25 Sec 35

N99 (1+)
Holmes Thomas P.Tr.
P.O.Box 302
Lockeford CA.95237
Plat 10 Sec 20+

(1+)
Holmes William R.
& S. M.
21444 Blackmore Rd.
Escalon CA.95320
Plat 34 Sec 25
35 30

C95 C91 (6+)
Holt Benjamin Jr.
P.O.Box 207916
San Antonio TX.78220
Plat 31 Sec 19

C99 C95 N93
Holtberg Craig
& Elizabeth.
24500 E Shelton Rd.
Linden CA.95236
Plat 23 Sec 5

Holthua Norris D.
& H. E.
5078 E. Jahant Rd
Galt CA.95632
Plat 9 Sec 18

C91 (1+)
Horn Allen E.
17221 Lido Lane
Huntington Beach
CA.92647
Plat 41 Sec 35

N89
Hood Weldon
& G.L.
15515 E. Harney Lane
Lodi CA.95240
Plat 13 Sec 17

N99
Hoodgendoom Mark
& Desiree L.
821 Buttercup Place
Manteca CA.95336
Plat 34 Sec 14

C97 (1+)
House Louis A. Tr.
1315 W Armstrong Rd
Lodi CA.95242
Plat 20 Sec 3
35 24

C99
Housken Diane W.
P.O.Box 336
Thornton CA.95686
Plat 5 Sec 34

(1+)
Housken George E
P.O.Box 125
Thornton CA.95686
Plat 5 Sec 33

N99
Housley Arthur J.
& Judith A.
5050 Silverado Trail
Napa CA.94558
Plat 8 Sec 22+

N95 (1+)
Hous Gary E.
C/O US NATO
PSC 81 Box 145 APO AE
NY.09724
Plat 48 Sec 20

N97 (1+)
Howard Betty Jean
3522 Mission Drive
Santa Cruz CA.95060
Plat 7 Sec 36

N97
Howard Douglas L
P O Box 12346
Fresno CA.93777
Plat 32 Sec 3

Howard Josephine Trs.
5749 W. Walnut Grove
Lodi CA.95240
Plat 7 Sec 12

N97
Howard Ranch FTP
C/O Fresno Truck Center
Corporation
2727 E Central Ave.
Fresno CA.93777
Plat 32 Sec 3

N93 (2+)
Howe Robert S.
& M.
& Lewallen Alberta
P.O.Box 682
Linden CA.95236
Plat 13 Sec 36

N93
Hsu Thomas
& Ji Eun
7565 De Foe Drive
Cupertino CA.95014
Plat 33 Sec 23

TOTAL P. 03

Ordnance and Explosives
Archives Search Report
For
Vernalis Bombing Target No. 6
San Joaquin, California
Project Number J09CA747301

APPENDIX M

ARCHIVES SEARCH REPORT CORRESPONDENCE

(Not Used)

Ordnance and Explosives
Archives Search Report
For
Vernalis Bombing Target No. 6
San Joaquin, California
Project Number J09CA747301

APPENDIX N

PROJECT AREA BIBLIOGRAPHY

APPENDIX N						
PROJECT AREA BIBLIOGRAPHY						
Document ID	Project Area(s)	OE Classification	Document Name	Document Date	Document Source	Description and Comments
1	A	Confirmed	History, Vernalis NAAS, California	12-Oct-45	Naval Historical Center-Naval Aviation History Office	F-1: Aviation History File, Air/Ground
1	A	Confirmed	Exploding Bomb Injures 2 Youths	3-Jan-47	Tracy Press	H-1: Newspaper report
2	A	Confirmed	Site Photographs	13-Feb-01	CEMVR-ED-DO	J-8 thru J-20 Photos of OE Scape

Ordnance and Explosives
Archives Search Report
For
Vernalis Bombing Target No. 6
San Joaquin, California
Project Number J09CA747301

APPENDIX O

REPORT DISTRIBUTION LIST

APPENDIX O

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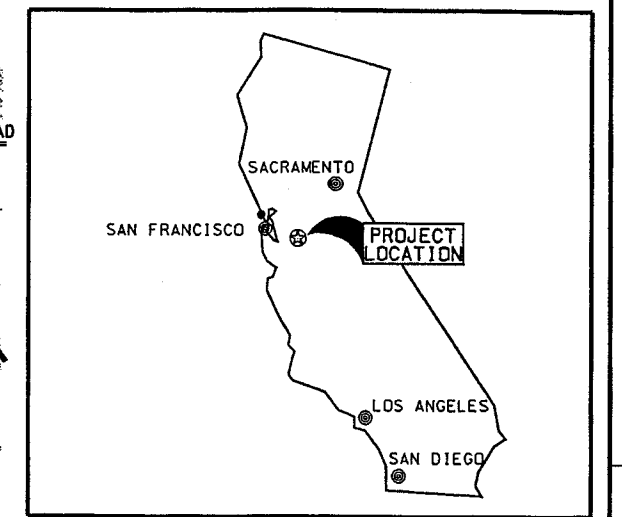
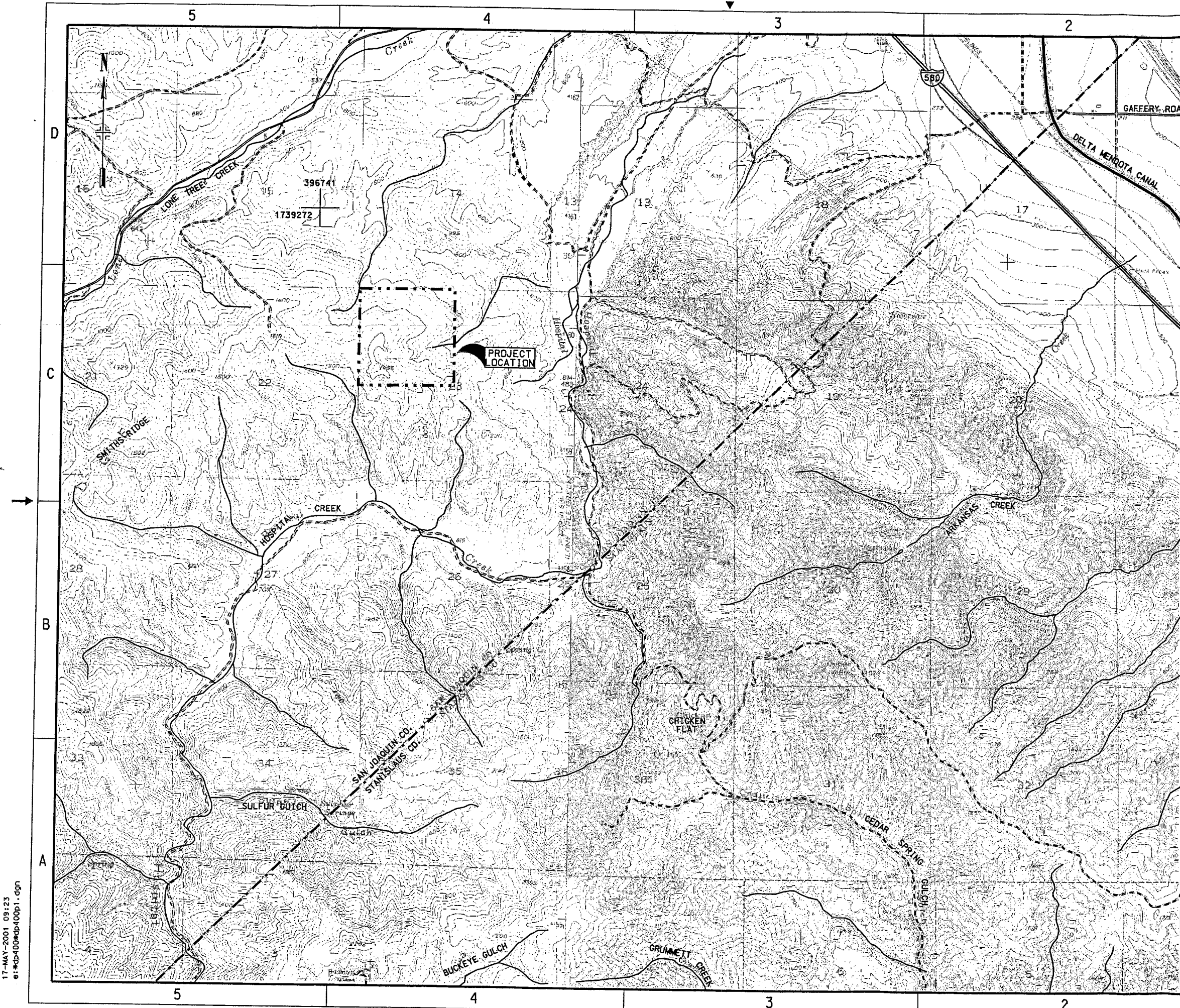
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ED-DO	3	-	-

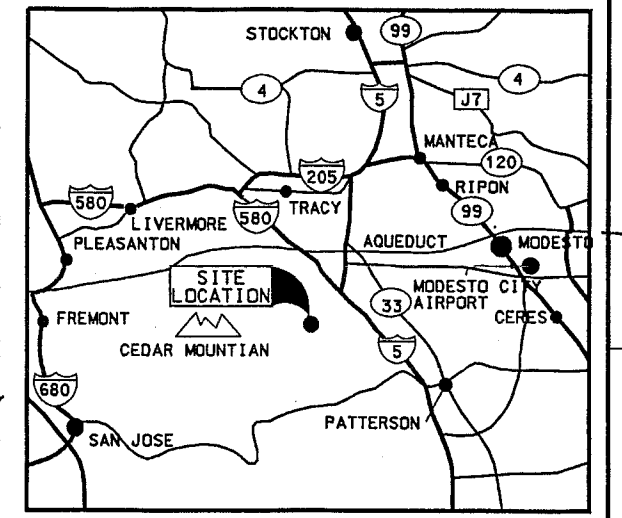
- I - Draft Report
- II - Findings Report
- III - Routed Draft Report

Ordnance and Explosives
Archives Search Report
For
Vernalis Bombing Target No. 6
San Joaquin, California
Project Number J09CA747301

REPORT PLATES



STATE MAP OF CALIFORNIA



VICINITY MAP

LEGEND

- SITE BOUNDARY
- - - COUNTY BOUNDARY
- Interstate
- == LIGHT DUTY ROAD
- UNIMPROVED ROAD
- + STATE PLANE COORDINATE

1250 0 1250 2500 FEET

Revisions			
Symbol	Description	Date	Approved

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
ROCK ISLAND, ILLINOIS

Designed by
JON P JONES

Drawn by
S.P. STEWART

Checked by
NICK HELEG- GREZA

VERNALIS BOMBING TARGET #6
SAN JOAQUIN CO., CA.

SITE MAP

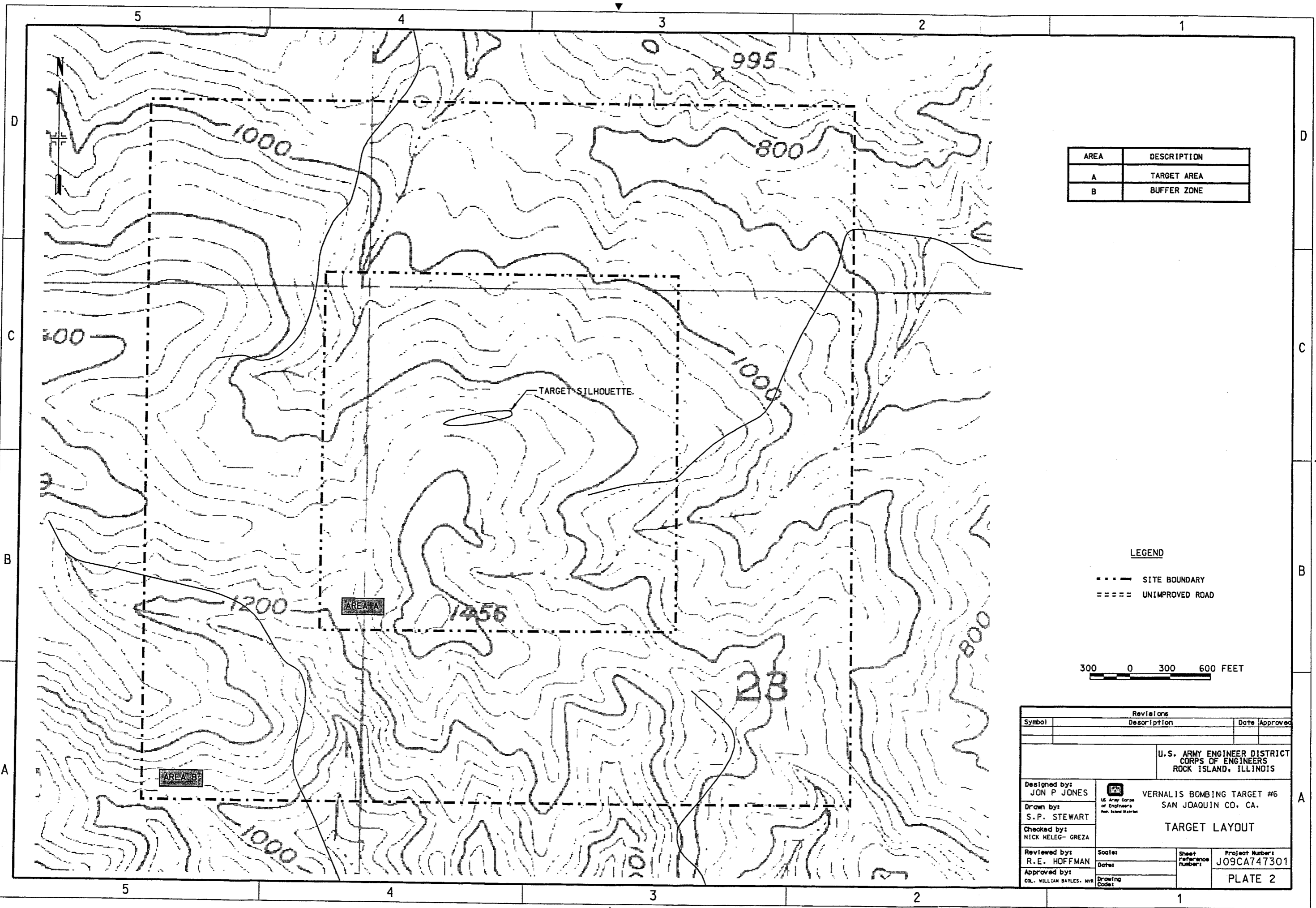
Reviewed by
R.E. HOFFMAN

Approved by
COL. WILLIAM BAYLES, MWR

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Drawing Code:		PLATE 1

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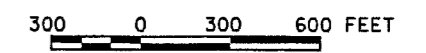
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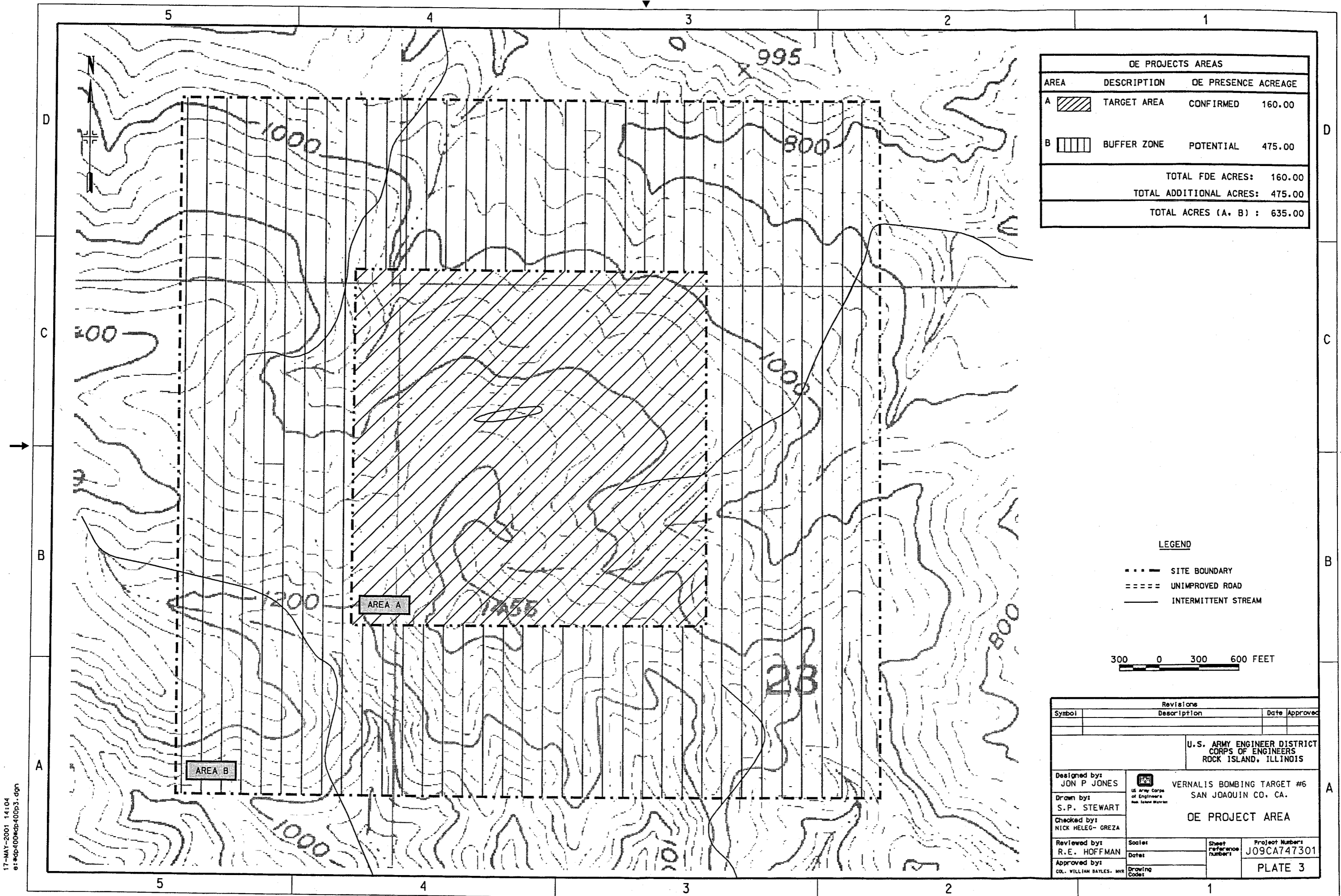
AREA	DESCRIPTION
A	TARGET AREA
B	BUFFER ZONE

LEGEND

- SITE BOUNDARY
- UNIMPROVED ROAD



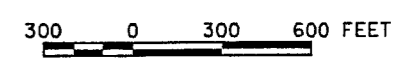
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Symbol	Description		
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS ROCK ISLAND, ILLINOIS			
Designed by: JON P JONES	 VERNALIS BOMBING TARGET #6 SAN JOAQUIN CO., CA.	TARGET LAYOUT	
Drawn by: S.P. STEWART			
Checked by: NICK HELEG- GREZA	Project Number: J09CA747301	PLATE 2	
Reviewed by: R.E. HOFFMAN	Drawing Code: COL. WILLIAM BAYLES, MVR		



OE PROJECTS AREAS			
AREA	DESCRIPTION	OE PRESENCE	ACREAGE
A	TARGET AREA	CONFIRMED	160.00
B	BUFFER ZONE	POTENTIAL	475.00
		TOTAL FDE ACRES:	160.00
		TOTAL ADDITIONAL ACRES:	475.00
		TOTAL ACRES (A + B):	635.00

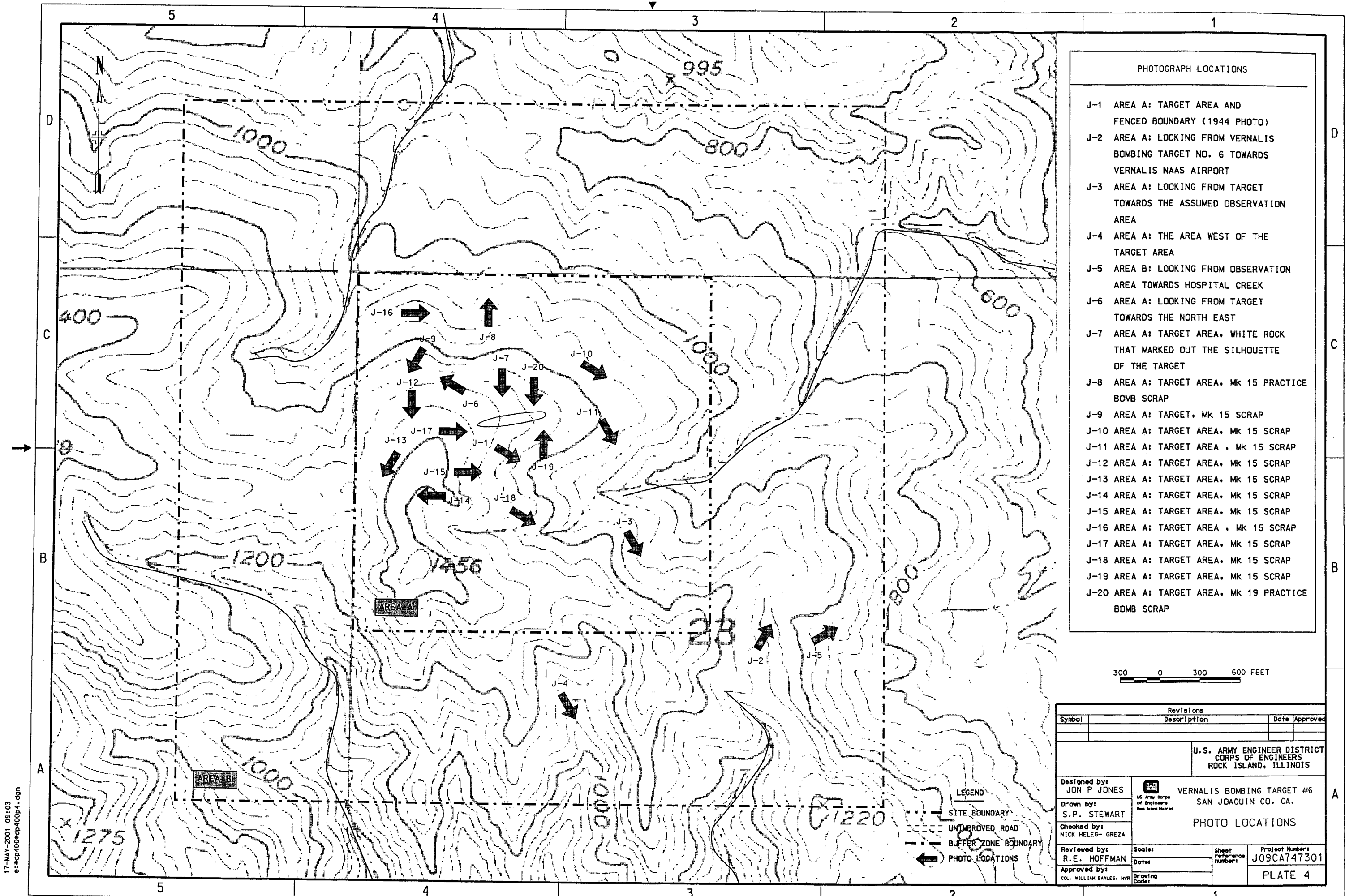
LEGEND

- SITE BOUNDARY
- ==== UNIMPROVED ROAD
- INTERMITTENT STREAM



Revisions		Date Approved	
Symbol	Description		
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS ROCK ISLAND, ILLINOIS			
Designed by: JON P JONES		VERNALIS BOMBING TARGET #6 SAN JOAQUIN CO. CA.	
Drawn by: S.P. STEWART		OE PROJECT AREA	
Checked by: NICK HELEG- GREZA	Reviewed by: R.E. HOFFMAN	Scales: Dates:	Sheet reference number: Project Number: J09CA747301
Approved by: COL. WILLIAM BAYLES, MVR	Drawing Code:		PLATE 3


17-MAY-2001 14:04
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PHOTOGRAPH LOCATIONS

- J-1 AREA A: TARGET AREA AND FENCED BOUNDARY (1944 PHOTO)
- J-2 AREA A: LOOKING FROM VERNALIS BOMBING TARGET NO. 6 TOWARDS VERNALIS NAAS AIRPORT
- J-3 AREA A: LOOKING FROM TARGET TOWARDS THE ASSUMED OBSERVATION AREA
- J-4 AREA A: THE AREA WEST OF THE TARGET AREA
- J-5 AREA B: LOOKING FROM OBSERVATION AREA TOWARDS HOSPITAL CREEK
- J-6 AREA A: LOOKING FROM TARGET TOWARDS THE NORTH EAST
- J-7 AREA A: TARGET AREA, WHITE ROCK THAT MARKED OUT THE SILHOUETTE OF THE TARGET
- J-8 AREA A: TARGET AREA, Mk 15 PRACTICE BOMB SCRAP
- J-9 AREA A: TARGET, Mk 15 SCRAP
- J-10 AREA A: TARGET AREA, Mk 15 SCRAP
- J-11 AREA A: TARGET AREA, Mk 15 SCRAP
- J-12 AREA A: TARGET AREA, Mk 15 SCRAP
- J-13 AREA A: TARGET AREA, Mk 15 SCRAP
- J-14 AREA A: TARGET AREA, Mk 15 SCRAP
- J-15 AREA A: TARGET AREA, Mk 15 SCRAP
- J-16 AREA A: TARGET AREA, Mk 15 SCRAP
- J-17 AREA A: TARGET AREA, Mk 15 SCRAP
- J-18 AREA A: TARGET AREA, Mk 15 SCRAP
- J-19 AREA A: TARGET AREA, Mk 15 SCRAP
- J-20 AREA A: TARGET AREA, Mk 19 PRACTICE BOMB SCRAP

300 0 300 600 FEET

Revisions		Date		Approved	
Symbol	Description				
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS ROCK ISLAND, ILLINOIS					
Designed by: JON P JONES	 U.S. Army Corps of Engineers Rock Island District	VERNALIS BOMBING TARGET #6 SAN JOAQUIN CO., CA.			
Drawn by: S.P. STEWART		PHOTO LOCATIONS			
Checked by: NICK HELEG-GREZA					
Reviewed by: R.E. HOFFMAN	Scale:	Sheet reference number:	Project Number: J09CA747301		
Approved by: COL. WILLIAM BAYLES, MWR	Date:	Drawing Code:	PLATE 4		

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