

US Army Corps of Engineers Rock Island District



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

# Archives Search Report

# **CONCLUSIONS AND RECOMMENDATIONS**

for the former

# STANISLAUS BOMBING TARGET STANISLAUS COUNTY, CALIFORNIA PROJECT NUMBER JO9CA107401

JULY 2002





## DEFENSE ENVIRONMENTAL RESTORATION PROGRAM For FORMERLY USED DEFENSE SITE

CONCLUSIONS AND RECOMMENDATIONS

ORDNANCE AND EXPLOSIVES ARCHIVES SEARCH REPORT FOR STANISLAUS BOMBING TARGET STANISLAUS COUNTY, CALIFORNIA PROJECT NUMBER J09CA107401

## JULY 2002

## Prepared For

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# ORDNANCE AND EXPLOSIVES ARCHIVES SEARCH REPORT FOR STANISLAUS BOMBING TARGET STANISLAUS COUNTY, CALIFORNIA PROJECT NUMBER JO9CA107401

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# ORDNANCE AND EXPLOSIVES ARCHIVES SEARCH REPORT FOR STANISLAUS BOMBING TARGET STANISLAUS COUNTY, CALIFORNIA PROJECT NUMBER J09CA107401

## CONCLUSIONS AND RECOMMENDATIONS

The following conclusions and recommendations are provided by the Archives Search Report Team. These recommendations may not be the actions taken to remediate this site.

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ONCLUSIONS

3-1 SUMMARY OF RECOMMENDATIONS

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Ε.	RISK	ASSESSMENT	AREA D	
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# REPORT PLATES

- SITE MAP
   TARGET LAYOUT CIRCA 1945
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## ORDNANCE AND EXPLOSIVES ARCHIVES SEARCH REPORT FOR STANISLAUS BOMBING TARGET STANISLAUS COUNTY, CALIFORNIA PROJECT NUMBER J09CA107401

#### 1. INTRODUCTION

#### a. Subject and Purpose

(1) This report presents the conclusions and recommendations of a historical records search and site inspection for ordnance and explosive (OE) presence at the Former Stanislaus Bomb Target Number 7, Stanislaus County, California. The former target is west of US Interstate 5 and north of Flat Oak Road. The Bomb Target is located approximately 3.5 miles northwest of Naval Auxiliary Air Station (NAAS) Crows Landing (NAASCL). The investigation focused on the original 640 acres that was acquired in 1943 for Stanislaus Bomb Target Number 7 and an additional 71 acres as recommended by this ASR for a total of 711 acres (see plates 1, 2 and 3).

(2) The purpose of this investigation was to characterize the site for potential OE presence utilizing available historical records, interviews, and on-site visual inspection results.

#### b. Scope

(1) This report presents the former Stanislaus Bomb Target Number 7 history, site description, real estate ownership information, and confirmed ordnance presence (prior to and after site closure), based on available records, interviews, site inspections, and analyses. The analyses provide a complete evaluation of all information to assess current day potential ordnance presence, where actual ordnance presence has not been confirmed.

(2) The conclusions and recommendations presented in this report were made from available records and the visual site inspection. The conclusions, including ordnance risk assessments, were based on direct or documented evidence and reasonably inferred evidence from the investigation. The recommendations were based on present DERP-FUDS program goals and policies with implementation subject to approval and appropriate funding actions. (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 either manufactured, purchased, stored, used, and/or disposed of by the War Department/Department of Defense. Such ammunition/components are no longer under accountable record control of any DOD organization or activity.

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

#### 2. CONCLUSIONS

#### a. Summary of Conclusions

Table 2-1 on page 4 has been provided to summarize the conclusions that were made on land within or adjacent to the former Stanislaus Bomb Target Number 7.

### b. Historical Site Summary

(1) Stanislaus Bomb Target No. 7 was one of several aerial targets established during WW2 by the Navy. Their locations were in the foothills west of the present day US Interstate 5.

(2) In 1943, the United States, lease on an annual basis a parcel of land totaling 640 acres for the U.S. Navy to establish an aerial bombing target for practice bombs near NAASCL. The target was placed in the foothills west of the present day Interstate 5 (see plates 1, 3 and 3).

(3) The Navy improved the property by constructing a dirt road and erecting a barrier fence along the west, north and east side and signs were posted warning people that an active bomb target existed on that site.

(4) Although the target afforded excellent training for naval pilots, it was difficult to keep the grass from burning during the summer. Since this was a prime cattle grazing land the ranchers vowed to not lease any more land to the government for target practice. (see plate 3).

2

(5) No site layout or as-built maps were located that showed the target as it existed. Several document exist that associates the target with NAASCL and one document states that an aircraft crashed into the target.

(6) NAASCL Target 7 was included on a list of targets for immediate release in January 1946. By May 1946, the Commandant of the Twelfth Naval District terminated the lease and listed it as surplus property.

(7) No clearance records indicating that HE bombs were used at this location were uncovered during this ASR. However the on-site inspection and personal interviews substantiated the fact that only practice ordnance was used on this target.

#### c. Site Eligibility

Former land usage by the War Department was confirmed for the site as summarized in sections 2 and 5 of the findings volume. The site was used as a practice-bombing target from the middle of 1943 to the end of WWII.

#### d. Visual Site Inspection

(1) The visual site inspection was conducted on 11 through 15 June 2001. The primary task of the SI team was to assess OE presence or potential due to use as a Bombing Target. On-site inspection by the SI team was limited to non-intrusive methods. Subsurface sampling was not authorized or permitted.

(2) A rights-of-entry was not required as the present owners were agreeable to having the SI team inspect the property.

(3) Since this was originally grazing lands, the Navy did not have to clear any timber and scrub bushes to construct the bomb targets. The SI team discovered that Stanislaus Bomb Target No. 7 apparently consisted of several targets within the 640-acres. This was evidence by the locations 100-pound practice or miniature practice bombs debris. Mr. Cox, the current owner, stated that the only improvement the Navy made on the property was to build a road. He also stated that the Navy dug a huge trench and buried the trash left over from the targets.

	and the second					LE 2-1 Conclusions		n ann an Anna a Chur an Anna an		
				FU	DS ELIGIBIL	ITY	ORDI	NANCE PRESEN	ICE	
Area	Former Usage	Present Usage	*Size Acres	Confirmed FUDS	Potential FUDS	Not Eligible	Confirmed Ordnance	Potential Ordnance	No OE Presence	Risk Assessment code
				YES			YES			
A	Target Area	Grazing	13	IES			IES NATURALISE (SAUSSION)	ing the second		4
B	Target Area	Grazing	13	YES	e		YES	wire: Sourcefee (Easters)	and a state way with the	4 A
С	Vehicle Target	Grazing	18	YES			YES			4
D	Vehicle Target	Grazing	13	YES			YES			4
E	Suspected Burial Site	Grazing	3	YES	 			YES		4
F	Safety Buffer Zone	Grazing	253	YES				YES		4
G	Remaining Lands	Grazing	398	YES		•			YES	5
Т	otal <b>INPR</b> acre	eage	640							
R	Revised ASR acr	reage	711							
*	Approximate ac	reage								

(4) There is no evidence of present day live OE or CWM and there is no evidence of high explosive ordnance use or any history of OE or CWM incidents associated with this area.

#### e. Confirmed Ordnance Areas

(1) Confirmed ordnance and explosives (OE) presence is based on verifiable historical record evidence of direct witness of OE items (with explosive components and/or inert debris/fragments) since site closure. Additional field data are not needed to identify a confirmed site. Presence is based on verifiable historical evidence or direct witness of ordnance items.

(2) 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.

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

(4) Based on the site inspection, target areas: BombTarget (A), Bomb Target (B), Vehicle Target (C) and VehicleTarget (D) are confirmed OE presence subsites.

### f. Potential Ordnance Areas

(1) Potential ordnance and explosive (OE) presence is based on a lack of confirmed OE presence. Potential OE presence is inferred from records, present day site features, nonverifiable direct witness, or indirect witness. Additional field data are needed to confirm potential OE sites.

(2) Inference from historical records is based on no OE items actually seen on site since site closure and would include documentation (records, aerial photographs, maps) indication possible OE presence derived from common practice in

5

production, storage, use, or disposal at that time and from records indicating known OE usage.

(3) 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/ODF areas/pits, etc. Indirect witness would be people who have stated that they have heard of OE presence on-site (hear-say evidence).

(4) The SI team's inspection of the Safety Buffer Zone (Area F) revealed body pieces of practice bombs. The possibility of subsurface spotting charges exists in these areas making it a potential of OE presence.

#### g. No OE Presence Ordnance Areas

No OE presence ordnance subsites are based on a lack of confirmed or potential ordnance presence. The remaining lands are free from any visible or subsurface magnetic anomalies. This subsite has no history of OE and the SI team confirmed that these areas are no OE presence ordnance areas.

#### h. Other Environmental Hazards

There are no other known man-made environmental hazards that resulted from the Department of Defense usage of the site.

#### 3. RECOMMENDATIONS

#### a. Summary of Recommendations

Table 3-1 on page 8 includes an overall summary of the site recommendations. Explanations are included in subsequent paragraphs.

#### b. Preliminary Assessment of Eligibility Actions

The Preliminary Assessment of Eligibility Actions for the Former Stanislaus Bomb Target Number 7 Findings and Determination of Eligibility (FDE) accurately cited that 640acres are FUDS eligible. However an additional 71-acres was added due to OE debris located outside the original 640-acres. Recommend that the FDE be changed to reflect a total acreage for the Former Stanislaus Bomb Target Number 7 as 711 acres.

#### c. Ordnance and Explosives Actions

The OE debris consisted of practice miniature and 100pound bomb bodies and associated body parts. The SI team did not note any spotting charges that had failed to function. Within the target areas, the SI team did note many subsurface metallic anomalies. Since site closure no intact or partially functioned spotting charges have ever been encountered on this site. The danger from subsurface OE is greater due to the area's relatively dry conditions. An EE/CA is recommended to determine if dudfired spotting charges remain in the subsurface practice bombs or in the suspected burial site. Data confirming the use of high explosive ordnance or physical evidence of craters or metal fragments from HE bombs were not noted during this inspection. Without the physical evidence of HE ordnance use, and due to the area's remoteness, the Risk Assessment (RAC) scores a value of 4.

#### d. Other Environmental Remediation Actions

There are no recommendations for other environmental hazards that resulted from the on-site SI inspection.

	TABLE 3-1 Summary of Recommendations							
			PAE Actions	OF	E Actions		HTRW Actions	BD/DR Actions
Area	Former Usage	*Size Acres	Prepare INPR	No Further Action Indicated	Perform IRA	Perform EE/CA	Perform SI	Perform SI
A	Target Area	13				YES		
A	laiget Alea					1日2		
B	Target Area	13		— — —		YES		
С	Target Area	1.8				YES		
D	Target Area	13				YES		
E		3				YES		
	Suspect Burial Site	3				IFP		
F	Buffer Zone	253				YES		
	Deres in inc.	200	NEO					
G	Remaining Lands	398	YES Amend FDE					
Total	<b>INPR</b> acreage	640						
	ed <b>ASR</b> acreage	711						
*Appro	oximate acreag	e						

# ORDNANCE AND EXPLOSIVES ARCHIVES SEARCH REPORT FOR STANISLAUS BOMBING TARGET STANISLAUS COUNTY, CALIFORNIA PROJECT NUMBER JO9CA107401

ATTACHMENTS

RISK ASSESSMENTS

## RISK ASSESSMENT

TABLE OF CONTENTS

Α.	RISK	ASSESSMENT	ENTIRE	SITE
в.	RISK	ASSESSMENT	AREA A	
С.	RISK	ASSESSMENT	AREA B	
D.	RISK	ASSESSMENT	AREA C	
Ε.	RISK	ASSESSMENT	AREA D	
F.	RISK	ASSESSMENT	AREA E	
G.	RISK	ASSESSMENT	AREA F	
Н.	RISK	ASSESSMENT	AREA G	

(

19 June 1999

	RISK ASSESSMENT PR	OCEDURES FOR	
	ORDNANCE AND EXPLOSI	VES (OE) SITES	
Site Name Ve	rnalis Dive Bomb/Rocket	Rater's Name	Heleg-Greza,
Ra	nge #7		Nickolas
Site Location	Stanislaus Cty, CA	Phone Number	309-782-1486
DERP Project #	J09CA107401	Organization	CEMVR-ED-DO
Date Completed	14 June 2001	Score	4

#### OE RISK ASSESSMENT: Entire Site

This risk assessment procedure was developed in accordance with MIL-STD 882C and AR 385-10. The Risk Assessment Code (RAC) score will be used by the U.S. Army Engineering and Support Center, Huntsville (USAESCH), Ordnance and Explosives Team (USAESCH-OE) to prioritize the remedial action(s) at Formerly Used Defense Sites (FUDS). The risk assessment should be based on the best available information resulting from records searches, reports of Explosive Ordnance Disposal (EOD) Detachments actions, field observations, interviews, and measurements. This information is used to assess the risk involved based on the potential OE hazards identified at the site. The risk assessment is composed of two factors, <u>hazard severity</u> and <u>hazard probability</u>. Personnel involved in visits to potential OE sites should view the USAESCH-OE videotape entitled "A Life Threatening Encounter: OEW". Part 1. Hazard Severity. Hazard severity categories are defined to provide a qualitative measure of the worst credible event resulting from personnel exposure to various types and quantities of unexploded ordnance. TYPE OF ORDNANCE: (Circle all that apply) VALUE

TTE	e of ordinance. (clicle all chac apply)	VALUE	
Α.	Conventional ordnance and ammunition:	10	
	Medium/large caliber (20mm and larger)	10	
	Bombs, explosive	10	
	Grenades, hand or rifle, explosive	10	
	Landmine, explosive	10	
	Rockets, guided missile, explosive	10	
	Detonators, blasting caps, fuzes, boosters, bursters	6	
	Bombs, practice (w/spotting charges)	6	
	Grenades, practice (w/spotting charges)	4	
	Landmine, practice (w/spotting charges)	4	
	Small arms, complete round (.22 cal50 cal)	1	
	Small arms, expended	0	
	Practice ordnance (wo/spotting charges)	0	
Con	ventional ordnance and ammunition (largest single value)		6
	t evidence do you have regarding conventional unexploded Inance? The area contains expended and subsurface practice bombs		

<ul> <li>B. Pyrotechnics (for munitions not described above):</li> <li>Munition (containers) containing White Phosphorus (WP) or other pyrophoric material (i.e., spontaneously flammable)</li> </ul>	VALUE 10	
Munition containing a flame or incendiary material (i.e., Napalm, Triethylaluminum metal incendiaries) Flares, signals, simulators, screening smokes (other	6 4 th	an
WP) Pyrotechnics (select the single largest value)	i ch	0
What evidence do you have regarding pyrotechnics?	None	
C. Bulk High Explosives (HE) (not an integral part of	VALUE	
conventional ordnance; uncontainerized): Primary or initiating explosives (Lead Styphnate, Azide, Nitroglycerin, Mercury Azide, Mercury Fulminate, T	10 Le	ad
etc.) Demolition charges	10	
Secondary explosives (PETN, Compositions A, B, C,	8	
Tetryl, TNT, RDX, HMX, HBX, Black Powder, etc.) Military dynamite	6	
Less sensitive explosives (Ammonium Nitrate, Explosive D, etc.)	3	
High explosives (select the largest single value)	_	0
What evidence do you have regarding bulk explosives?	None	
D. Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized.	VALUE	
Solid or liquid propellants Propellants	6	0
What evidence do you have regarding bulk propellants?	None	
E. Chemical Warfare Materiel (CWM) and Radiological Weapons:	VALUE	
Toxic chemical agents (choking, nerve, blood, blister)	25	
War Gas Identification Sets	20	
Radiological	15	
Riot Control Agents (vomiting, tear)	5	
Chemical and Radiological (select the largest single value	le	0
What evidence do you have regarding chemical or radiologi		None

Α

TOTAL HAZARD SEVERITY VALUE (Sum of values A through E (maximum of 61) 6 Apply this value to Table 1 to determine Hazard Severity Category TABLE 1 HAZARD SEVERITY\* DESCRIPTION CATEGORY HAZARD SEVERITY VALUE CATASTROPHIC Ι 21 and/or greater CRITICAL 10 to 20 ΤТ MARGINAL 5 to 9 NEGLIGIBLE 1 to 4 \*\*NONE 0

\*Apply Hazard Severity Category to Table 3 \*\*If hazard severity value is 0, you do not need to complete Part II of this form. Proceed to Part III and use a RAC score of 5 to determine your appropriate action.

Α

PART II. Hazard Probability. The probability that a hazard has been, or will be, created due to the presence and other rated factors of unexploded ordnance or explosive materials on a formerly used Department of Defense (DoD) site. AREA, EXTENT, ACCESSIBILITY OF OE HAZARD (Circle all that apply) A. Locations of OE hazards: VALUE On the surface (5) Within tanks, pipes, vessels, or other confined areas 4 Inside walls, ceilings, or other building/structure 3 Subsurface 2 Location (select the single largest value) 5 What evidence do you have regarding location of OE? The OE debris is visible on the surface. B. Distance to nearest inhabited location/structure VALUE likely to be at risk from OE hazard (road, park, playground, building, etc.) Less than 1,250 feet 5 4 1,250 feet to 0.5 mile Ż 0.5 mile to 1.0 mile 1.0 mile to 2.0 miles Over 2 miles Distance (select the single largest value) 3 What are the nearest inhabited structures/buildings? Cox ranch and U.S. Interstate 5 are w/i 1 mile of site. C. Number(s) of building(s) within a 2 mile radius VALUE measured from the OE hazard area, not the installation boundary. 5 26 and over 4 16 to 25 3 2 11 to 15 6 to 10 1 to 5 0 Number of buildings (select the single largest value) 1 Narrative: Cox Ranch with 5 outbuilding

D. Types of Buildings (within a 2 mile radius)	VALUE	
Educational, child care, residential, hospitals hotels, commercial, shopping centers Industrial, warehouse, etc.	<b>5</b> 4	
Agricultural, forestry, etc.	3	
Detention, correctional	2	
No buildings	0	
Types of buildings (select the single largest value) Describe the types of buildings: <u>Home and outbuildings</u>		5
E. Accessibility to site refers to access by humans to ordnance and explosives. Use the following guidance: No barrier nor security system	VALUE 5	
Barrier is incomplete (e.g., in disrepair or does not completely surround the site). Barrier is intended to deny egress from the site, as for a barbed wire fence for grazing. A barrier (any kind of fence in good repair) but no separate means to control entry. Barrier is intended to de	4 any access	
to the site. Security Guard, but no barrier	2	
Isolated site	1	
A 24-hour surveillance system (e.g., television monitoring or surveillance by guards or facility personnel continuously monitors and controls entry; or, an artificial or natural barrier (e.g., fence combined with a cliff) which completely surrounds the area; and, a means to control entry at all times through the gates or other entrances (e.g., an attendant, television monitors, locked entrances, or controlled roadway access to the area).	0	
Accessibility (select the single largest value)		3
Describe the site accessibility: There are locked gates to pas	s through. T	he
property owner maintains a fence with locked gates around the site.	····-	

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F. Site Dynamics. This deals with site conditions are subject to change in the future, but may be stable at the present. Examples would be excessive soil erosion on beaches or streams, increasing land development that could reduce distances from the site to inhabited areas or otherwise increase accessibility.	VALUE
Expected None anticipated	5
Site dynamics (select value) Describe the site dynamics: <b>The site will remain as grazing land</b>	
TOTAL HAZARD PROBABILITY VALUE (sum of largest values for A F (maximum of $30$ )	through17
Apply this value to Hazard Probability Table 2 to determine Probability Level.	the Hazard

LEVEL H2

TABLE 2 HAZARD PROBABILITY

А

HAZARD PROBABILITY VALUE
27 or greater
21 to 26
15 to 20
8 to 14
less than 8

\*Apply Hazard Probability Level to Table 3.

DESCRIPTION

FREQUENT

PROBABLE OCCASIONAL REMOTE IMPROBABLE

Α

Part III. Risk Assessment. The risk assessment value for this site is determined using the following Table. Enter the results of the Hazard Probability and Hazard Severity values.

					1 0						
PROBABILITY	FRE	QUENT	PROB	ABLE	OCCA	ASIONAL	REM	IOTE	IMPF	ROBABL	E
LEVEL	2	A		В		С		D		E	
SEVERITY				1.00							
CATEGORY:											
CATASTROPHIC	I í	L		1		2		3		4	
CRITICAL	II .	1		2		3		4		5	
MARGINAL	III 2	2		3		(4)		4		5	
NEGLIGIBLE	IV .	3		4		4		5		5	

RISK ASSESSMENT CODE (RAC)

RAC 1 Expedite INPR, recommending further action by USAESCH - Immediately call USAESCH-OE-S (comm 205-895-1582/1598).

- RAC 2 High priority on completion on INPR Recommend further action by USAESCH.
- RAC 3 Complete INPR Recommend further action by USAESCH.
- RAC 4 Complete INPR Recommend further action by USAESCH.

PART IV. Narrative. Summarize the documented evidence that supports this risk assessment. If no documented evidence was available, explain all the assumptions that you made.

Each year the owner, Mr Cox, and family ride horseback all over the former site, especially during calving season. Other than the same bits and pieces of practice bombs noted by the SI team, they have never seen any complete OE items. Mr Cox feels confident that no live and dangerous OE exists on his property. The same can not be

said of the items in the burial pit. The SI team suspects two burial pits on the site.

Recommend an EE/CA to determine if there are any remaining spotting charges in the burial site (AREA E) and under the bomb target in AREA A.

To the best of anyone's knowledge, there has been no UXO related incidents since site closure.

RAC 5 Usually indicates that No DoD Action Indicated (NDAI). Submit NDAI and RAC to USAESCH.

19 June 1999

		RISK ASS	ESSMENT PRO	OCEDURES .	FOR		
		ORDNANCE A	ND EXPLOSI	VES (OE)	SITES		
Site Nam	e Verr	nalis Dive Bo	mb/Rocket	Rater's	Name	Heleg-Greza,	
	Rang	je #7				Nickolas	
Site Loca	ation	Stanislaus C	ty, CA	Phone Nu	mber	309-782-1486	
DERP Pro	ject # <sup>-</sup>	J09CA10740	1	Organiza	tion	CEMVR-ED-DO	
Date Com	pleted	14 June 200	1	Score		4	

#### OE RISK ASSESSMENT: AREA A

This risk assessment procedure was developed in accordance with MIL-STD 882C and AR 385-10. The Risk Assessment Code (RAC) score will be used by the U.S. Army Engineering and Support Center, Huntsville (USAESCH), Ordnance and Explosives Team (USAESCH-OE) to prioritize the remedial action(s) at Formerly Used Defense Sites (FUDS). The risk assessment should be based on the best available information resulting from records searches, reports of Explosive Ordnance Disposal (EOD) Detachments actions, field observations, interviews, and measurements. This information is used to assess the risk involved based on the potential OE hazards identified at the site. The risk assessment is composed of two factors, hazard severity and hazard probability. Personnel involved in visits to potential OE sites should view the USAESCH-OE videotape entitled "A Life Threatening Encounter: OEW". Part 1. Hazard Severity. Hazard severity categories are defined to provide a qualitative measure of the worst credible event resulting from personnel exposure to various types and quantities of unexploded ordnance. TYPE OF ORDNANCE: (Circle all that apply) VALUE

The of order (officie all ende apply)	VIIIOL					
A. Conventional ordnance and ammunition:	10					
Medium/large caliber (20mm and larger)	10					
Bombs, explosive	10					
Grenades, hand or rifle, explosive	10					
Landmine, explosive	10					
Rockets, guided missile, explosive	10					
Detonators, blasting caps, fuzes, boosters, bursters	6					
Bombs, practice (w/spotting charges) 6						
Grenades, practice (w/spotting charges) 4						
Landmine, practice (w/spotting charges)	4					
Small arms, complete round (.22 cal50 cal)	1					
Small arms, expended	0					
Practice ordnance (wo/spotting charges)	0					
Conventional ordnance and ammunition (largest single value)	6					
What evidence do you have regarding conventional unexploded ordnance?						
subsurface metallic anomalies.	·					

B. Pyrotechnics (for munitions not described above): Munition (containers) containing White Phosphorus (WP) or other pyrophoric material (i.e., spontaneously flammable)	VALUE 10	
Munition containing a flame or incendiary material (i.e., Napalm, Triethylaluminum metal incendiaries)	6	
Flares, signals, simulators, screening smokes (other WP)	4 tł	nan
Pyrotechnics (select the single largest value)	-	0
What evidence do you have regarding pyrotechnics?	None	
C. Bulk High Explosives (HE) (not an integral part of conventional ordnance; uncontainerized):	VALUE	
Primary or initiating explosives (Lead Styphnate, Azide, Nitroglycerin, Mercury Azide, Mercury Fulminate, Te		ead
etc.) Demolition charges	10	
Secondary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX, HMX, HBX, Black Powder, etc.)	8	
Military dynamite	6	
Less sensitive explosives (Ammonium Nitrate, Explosive D, etc.)	3	
High explosives (select the largest single value)		0
What evidence do you have regarding bulk explosives?	None	
D. Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized.	VALUE	
Solid or liquid propellants Propellants	6	0
Solid or liquid propellants	6 None	
Solid or liquid propellants Propellants		0
Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? E. Chemical Warfare Materiel (CWM) and Radiological		0
Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? E. Chemical Warfare Materiel (CWM) and Radiological Weapons: Toxic chemical agents (choking, nerve, blood,	None	0
Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? E. Chemical Warfare Materiel (CWM) and Radiological Weapons:	<b>None</b> VALUE	0
Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? E. Chemical Warfare Materiel (CWM) and Radiological Weapons: Toxic chemical agents (choking, nerve, blood, blister)	None VALUE 25	0
Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? E. Chemical Warfare Materiel (CWM) and Radiological Weapons: Toxic chemical agents (choking, nerve, blood, blister) War Gas Identification Sets	None VALUE 25 20	0
Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? E. Chemical Warfare Materiel (CWM) and Radiological Weapons: Toxic chemical agents (choking, nerve, blood, blister) War Gas Identification Sets Radiological	<b>None</b> VALUE 25 20 15 5	0
Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? E. Chemical Warfare Materiel (CWM) and Radiological Weapons: Toxic chemical agents (choking, nerve, blood, blister) War Gas Identification Sets Radiological Riot Control Agents (vomiting, tear)	<b>None</b> VALUE 25 20 15 5	

Β

Apply this value to Table 1 to determine Hazard Severity Category TABLE 1 HAZARD SEVERITY* <u>DESCRIPTION</u> <u>CATEGORY</u> <u>HAZARD SEVERITY VALUE</u> CATASTROPHIC CRITICAL MARGINAL NEGLIGIBLE **NONE U L L L L L L L L L	TOTAL HAZARD SEVERIT 61)	IY VALUE (Sum of values A thr	cough E (maximum of <b>6</b>
DESCRIPTIONCATEGORYHAZARD SEVERITY VALUECATASTROPHICI21 and/or greaterCRITICALII10 to 20MARGINALII5 to 9NEGLIGIBLEIV1 to 4	Apply this value to	TABLE 1	Severity Category
CATASTROPHICI21 and/or greaterCRITICALII10 to 20MARGINALIII5 to 9NEGLIGIBLEIV1 to 4		HAZARD SEVERITY*	
CRITICALII10 to 20MARGINALIII5 to 9NEGLIGIBLEIV1 to 4	DESCRIPTION	CATEGORY	HAZARD SEVERITY VALUE
CRITICALII10 to 20MARGINALIII5 to 9NEGLIGIBLEIV1 to 4			
MARGINAL 5 to 9 NEGLIGIBLE IV 1 to 4	CATASTROPHIC	I	21 and/or greater
NEGLIGIBLE IV 1 to 4	CRITICAL	II	10 to 20
	MARGINAL		5 to 9
**NONE V 0	NEGLIGIBLE	IV	1 to 4
	* *NONE	V	0

\*Apply Hazard Severity Category to Table 3 \*\*If hazard severity value is 0, you do not need to complete Part II of this form. Proceed to Part III and use a RAC score of 5 to determine your appropriate action.

3

B

PART II. Hazard Probability. The probability that a hazard has been, or will be, created due to the presence and other rated factors of unexploded ordnance or explosive materials on a formerly used Department of Defense (DoD) site. AREA, EXTENT, ACCESSIBILITY OF OE HAZARD (Circle all that apply) VALUE Α. Locations of OE hazards: 5 On the surface Within tanks, pipes, vessels, or other confined areas 4 3 Inside walls, ceilings, or other building/structure (2)Subsurface Location (select the single largest value) 2 What evidence do you have regarding location of OE? The suspected OE debris is subsurface. B. Distance to nearest inhabited location/structure VALUE likely to be at risk from OE hazard (road, park, playground, building, etc.) 5 Less than 1,250 feet 4 1,250 feet to 0.5 mile 0.5 mile to 1.0 mile 1.0 mile to 2.0 miles Over 2 miles Distance (select the single largest value) 2 What are the nearest inhabited structures/buildings? Cox ranch and U.S. Interstate 5 are between 1 and 2-miles from this sub site. С. Number(s) of building(s) within a 2 mile radius VALUE measured from the OE hazard area, not the installation boundary. 5 26 and over 16 to 25 4 3 11 to 15 6 to 10 1 to 5 0 Number of buildings (select the single largest value) 1 Narrative: Cox Ranch with 5 outbuilding

B

Educational, child care, residential, hospitals       Image: Commercial, shopping centers         hotels, commercial, shopping centers       4         Agricultural, forestry, etc.       3         Detention, correctional       2         No buildings       0         Types of buildings (select the single largest value)       5         Describe the types of buildings:       Home and outbuildings         E.       Accessibility to site refers to access by humans to       VALUE         ordnance and explosives.       Use the following guidance:       5         Barrier is incomplete (e.g., in disrepair or does not deny egress from the site, as for a barbed wire fence for grazing.       4         A barrier (any kind of fence in good repair) but no separate means to control entry. Barrier is intended to deny access to the site.       3         Security Guard, but no barrier       2         Isolated site       1         A 24-hour surveillance system (e.g., television monitoring or surveillance by guards or facility personnel continuously monitors and controls entry; or, an artificial or natural barrier (e.g., fence combined with a cliff) which completely surrounds the area; and, a means to control entry at all times through the gates or other entrances (e.g., an attendant, television monitors, locked entrances, or controlled roadway access to the area).       3         Describe the site accessibility:       There are locked gates to pass through. The property owner maintains a fence wi	D	. Types of Buildings (within a 2 mile radius)	VALUE	
Agricultural, forestry, etc.       3         Detention, correctional       2         No buildings       0         Types of buildings (select the single largest value)       5         Describe the types of buildings:       Home and outbuildings         E.       Accessibility to site refers to access by humans to       VALUE         ordnance and explosives.       Use the following guidance:       5         Barrier is incomplete (e.g., in disrepair or does not 4       4         completely surround the site).       Barrier is intended to         deny egress from the site, as for a barbed wire fence for grazing.       2         A barrier (any kind of fence in good repair) but no       3         separate means to control entry.       Barrier is intended to deny access to the site.         Security Guard, but no barrier       2         Isolated site       1         A 24-hour surveillance system (e.g., television 0       0         monitoring or surveillance by guards or facility personnel continuously monitors and controls entry; or, an artificial or natural barrier (e.g., fence combined with a cliff) which completely surrounds the area; and, a means to control entry at all times through the gates or other entrances (e.g., an attendant, television monitors, locked entrances, or controlled roadway access to the area].         Accessibility (select the single largest value)       3         Describe		hotels, commercial, shopping centers		
Detention, correctional       2         No buildings       0         Types of buildings (select the single largest value)       5         Describe the types of buildings:       Home and outbuildings         E. Accessibility to site refers to access by humans to       VALUE         ordnance and explosives.       Use the following guidance:         No barrier nor security system       5         Barrier is incomplete (e.g., in disrepair or does not 4 completely surround the site).       8 arrier fence for grazing.         A barrier (any kind of fence in good repair) but no separate means to control entry.       3         Security Guard, but no barrier       2         Isolated site       1         A 24-hour surveillance system (e.g., television 0 monitoring or surveillance by guards or facility personnel continuously monitors and controls entry; or, an artificial or natural barrier (e.g., fence combined with a cliff) which completely surrounds the area; and, a means to control entry at all times through the gates or other entrances (e.g., an attendant, television monitors, locked entrances, or controlled radway access to the area).       3         Accessibility (select the single largest value)       3			-	
No buildings       0         Types of buildings (select the single largest value)       5         Describe the types of buildings:       Home and outbuildings         E. Accessibility to site refers to access by humans to       VALUE         ordnance and explosives.       Use the following guidance:       5         Barrier is incomplete (e.g., in disrepair or does not       4         completely surround the site).       Barrier is intended to         deny egress from the site, as for a barbed wire fence       6         for grazing.       A barrier (any kind of fence in good repair) but no       3         separate means to control entry.       Barrier is intended to deny access         to the site.       2         Security Guard, but no barrier       2         Isolated site       1         A 24-hour surveillance system (e.g., television       0         monitoring or surveillance by guards or facility       0         personnel continuously monitors and controls entry; or, an artificial or natural barrier (e.g., fence combined with a cliff) which completely surrounds the area; and, a means to control entry at all times through the gates or other entrances (e.g., an attendant, television monitors, locked entrances, or controlled roadway access to the area).       3         Accessibility (select the single largest value)       3			-	
Types of buildings (select the single largest value)       5         Describe the types of buildings:       Home and outbuildings         E. Accessibility to site refers to access by humans to value ordnance and explosives. Use the following guidance: No barrier nor security system       Value ordnance and explosives. Use the following guidance: No barrier nor security system       S         Barrier is incomplete (e.g., in disrepair or does not 4 completely surround the site). Barrier is intended to deny egress from the site, as for a barbed wire fence for grazing. A barrier (any kind of fence in good repair) but no separate means to control entry. Barrier is intended to deny access to the site. Security Guard, but no barrier       2         Isolated site       1       1         A 24-hour surveillance system (e.g., television 0 monitoring or surveillance by guards or facility personnel continuously monitors and controls entry; or, an artificial or natural barrier (e.g., fence combined with a cliff) which completely surrounds the area; and, a means to control entry at all times through the gates or other entrances (e.g., an attendant, television monitors, locked entrances, or controlled rodway access to the area).       3         Accessibility (select the single largest value)       3		Detention, correctional	2	
Describe the types of buildings:       Home and outbuildings         E. Accessibility to site refers to access by humans to value ordnance and explosives. Use the following guidance: No barrier nor security system       5         Barrier is incomplete (e.g., in disrepair or does not 4 completely surround the site). Barrier is intended to deny egress from the site, as for a barbed wire fence for grazing. A barrier (any kind of fence in good repair) but no separate means to control entry. Barrier is intended to deny access to the site. Security Guard, but no barrier       2         Isolated site       1         A 24-hour surveillance system (e.g., television 0 monitoring or surveillance by guards or facility personnel continuously monitors and controls entry; or, an artificial or natural barrier (e.g., fence combined with a cliff) which completely surrounds the area; and, a means to control entry at all times through the gates or other entrances (e.g., an attendant, television monitors, locked entrances, or controlled roadway access to the area).       3         Accessibility (select the single largest value)       3		No buildings	0	
ordnance and explosives. Use the following guidance: No barrier nor security system 5 Barrier is incomplete (e.g., in disrepair or does not 4 completely surround the site). Barrier is intended to deny egress from the site, as for a barbed wire fence for grazing. A barrier (any kind of fence in good repair) but no 3 separate means to control entry. Barrier is intended to deny access to the site. Security Guard, but no barrier 2 Isolated site 1 A 24-hour surveillance system (e.g., television 0 monitoring or surveillance by guards or facility personnel continuously monitors and controls entry; or, an artificial or natural barrier (e.g., fence combined with a cliff) which completely surrounds the area; and, a means to control entry at all times through the gates or other entrances (e.g., an attendant, television monitors, locked entrances, or controlled roadway access to the area). Accessibility (select the single largest value) <u>3</u> Describe the site accessibility: <u>There are locked gates to pass through. The</u>				5
<pre>completely surround the site). Barrier is intended to deny egress from the site, as for a barbed wire fence for grazing. A barrier (any kind of fence in good repair) but no separate means to control entry. Barrier is intended to deny access to the site. Security Guard, but no barrier Isolated site A 24-hour surveillance system (e.g., television monitoring or surveillance by guards or facility personnel continuously monitors and controls entry; or, an artificial or natural barrier (e.g., fence combined with a cliff) which completely surrounds the area; and, a means to control entry at all times through the gates or other entrances (e.g., an attendant, television monitors, locked entrances, or controlled roadway access to the area). Accessibility (select the single largest value) Describe the site accessibility: <u>There are locked gates to pass through. The</u></pre>		dnance and explosives. Use the following guidance:		
A 24-hour surveillance system (e.g., television 0 monitoring or surveillance by guards or facility personnel continuously monitors and controls entry; or, an artificial or natural barrier (e.g., fence combined with a cliff) which completely surrounds the area; and, a means to control entry at all times through the gates or other entrances (e.g., an attendant, television monitors, locked entrances, or controlled roadway access to the area). Accessibility (select the single largest value) <u>3</u> Describe the site accessibility: <u>There are locked gates to pass through. The</u>		completely surround the site). Barrier is intended to deny egress from the site, as for a barbed wire fence for grazing. A barrier (any kind of fence in good repair) but no sparate means to control entry. Barrier is intended to de the site.	Ony access	5
<pre>monitoring or surveillance by guards or facility personnel continuously monitors and controls entry; or, an artificial or natural barrier (e.g., fence combined with a cliff) which completely surrounds the area; and, a means to control entry at all times through the gates or other entrances (e.g., an attendant, television monitors, locked entrances, or controlled roadway access to the area). Accessibility (select the single largest value) <u>3</u> Describe the site accessibility: <u>There are locked gates to pass through. The</u></pre>		Isolated site	1	
Accessibility (select the single largest value) <u>3</u> Describe the site accessibility: <u>There are locked gates to pass through. The</u>		monitoring or surveillance by guards or facility personnel continuously monitors and controls entry; or, an artificial or natural barrier (e.g., fence combined with a cliff) which completely surrounds the area; and, a means to control entry at all times through the gates or other entrances (e.g., an attendant, television monitors, locked entrances, or controlled	0	
	Ac	-		3
property owner maintains a fence with locked gates around the site.	De	scribe the site accessibility: There are locked gates to pase	s through.	Гһе
	pro	operty owner maintains a fence with locked gates around the site.		

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F. Site Dynamics. This are subject to change in at the present. Examples erosion on beaches or str that could reduce distance inhabited areas or otherw	the future, s would be ex reams, increa ces from the	but may be stable cessive soil asing land development site to	
Expected None anticipated		$\overset{5}{\mathbf{O}}$	
Site dynamics (select val Describe the site dynamic		e will remain as grazing land	
TOTAL HAZARD PROBABILITY F (maximum of 30)	VALUE (sum c	of largest values for A throug	13
Apply this value to Hazar Probability Level.	d Probabilit	y Table 2 to determine the Ha	zard
	TABLE		
	HAZARD PRO	BABILITY	
DESCRIPTION	LEVEL	HAZARD PROBABILITY VAL	UE
FREQUENT PROBABLE OCCASIONAL REMOTE IMPROBABLE		27 or greater 21 to 26 15 to 20 8 to 14 less than 8	
*Apply Hazard Probability	Level to Ta	ble 3.	

Β

Part III. Risk Assessment. The risk assessment value for this site is determined using the following Table. Enter the results of the Hazard Probability and Hazard Severity values. TABLE 3

PROBABILITY LEVEL	FR	EQUENT A	PROBABLE B	OCCASIONAL C	REMOTE D	IMPROBABLE E
SEVERITY						
CATEGORY:						
CATASTROPHIC	I	1	1	2	3	4
CRITICAL	II	1	2	3	4	5
MARGINAL	III	2	3	4	<b>(4)</b>	5
NEGLIGIBLE	IV	3	4	4	5	5

RISK ASSESSMENT CODE (RAC)

- RAC 1 Expedite INPR, recommending further action by USAESCH Immediately call USAESCH-OE-S (comm 205-895-1582/1598).
- RAC 2 High priority on completion on INPR Recommend further action by USAESCH.
- RAC 3 Complete INPR Recommend further action by USAESCH.
- RAC 4 Complete INPR Recommend further action by USAESCH.

PART IV. Narrative. Summarize the documented evidence that supports this risk assessment. If no documented evidence was available, explain all the assumptions that you made.

The extent of the subsurface metallic anomalies cover the entire summit and extends approximately 600 feet in all directions.

Recommend an EE/CA to determine if there are any remaining spotting charges in the practice bombs.

To the best of anyone's knowledge, there has been no UXO related incidents since site closure.

R

RAC 5 Usually indicates that No DoD Action Indicated (NDAI). Submit NDAI and RAC to USAESCH.

19 June 1999

	RISK ASSESSMENT PR	OCEDURES FOR	
	ORDNANCE AND EXPLOSI	VES (OE) SITES	
Site Name	Vernalis Dive Bomb/Rocket	Rater's Name	Heleg-Greza,
	Range #7		Nickolas
Site Location	n Stanislaus Cty, CA	Phone Number	309-782-1486
DERP Project	# J09CA107401	Organization	CEMVR-ED-DO
Date Complete	ed 14 June 2001	Score	4

#### OE RISK ASSESSMENT: AREA B

This risk assessment procedure was developed in accordance with MIL-STD 882C and AR 385-10. The Risk Assessment Code (RAC) score will be used by the U.S. Army Engineering and Support Center, Huntsville (USAESCH), Ordnance and Explosives Team (USAESCH-OE) to prioritize the remedial action(s) at Formerly Used Defense Sites (FUDS). The risk assessment should be based on the best available information resulting from records searches, reports of Explosive Ordnance Disposal (EOD) Detachments actions, field observations, interviews, and measurements. This information is used to assess the risk involved based on the potential OE hazards identified at the site. The risk assessment is composed of two factors, hazard severity and hazard probability. Personnel involved in visits to potential OE sites should view the USAESCH-OE videotape entitled "A Life Threatening Encounter: OEW". Part 1. Hazard Severity. Hazard severity categories are defined to provide a qualitative measure of the worst credible event resulting from personnel exposure to various types and quantities of unexploded ordnance. TYPE OF ORDNANCE: (Circle all that apply) VALUE

THE OF ORDNANCE. (CHICLE all that apply)	UTU UTU					
A. Conventional ordnance and ammunition:	10					
Medium/large caliber (20mm and larger)	10					
Bombs, explosive	10					
Grenades, hand or rifle, explosive	10					
Landmine, explosive	10					
Rockets, guided missile, explosive	10					
Detonators, blasting caps, fuzes, boosters, bursters	6					
Bombs, practice (w/spotting charges)	6					
Grenades, practice (w/spotting charges)	4					
Landmine, practice (w/spotting charges)	4					
Small arms, complete round (.22 cal50 cal)	1					
Small arms, expended	0					
Practice ordnance (wo/spotting charges)	0					
Conventional ordnance and ammunition (largest single value)	_	6				
What evidence do you have regarding conventional unexploded						
ordnance? The area contains expended practice bombs. However, there are	subsurfac	ce				
metallic anomalies.						

<ul> <li>B. Pyrotechnics (for munitions not described above):</li> <li>Munition (containers) containing White Phosphorus</li> <li>(WP) or other pyrophoric material (i.e., spontaneously flammable)</li> </ul>	VALUE 10	
Munition containing a flame or incendiary material (i.e., Napalm, Triethylaluminum metal incendiaries)	6	
Flares, signals, simulators, screening smokes (other	4 th	nan
WP) Pyrotechnics (select the single largest value)		0
What evidence do you have regarding pyrotechnics?	None	
C. Bulk High Explosives (HE) (not an integral part of conventional ordnance; uncontainerized): Primary or initiating explosives (Lead Styphnate,	VALUE 10 Le	
Azide, Nitroglycerin, Mercury Azide, Mercury Fulminate, Te		au
etc.) Demolition charges	10	
Secondary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX, HMX, HBX, Black Powder, etc.)	8	
Military dynamite	6	
Less sensitive explosives (Ammonium Nitrate, Explosive D, etc.)	3	
High explosives (select the largest single value)	_	0
What evidence do you have regarding bulk explosives?	None	
D. Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized.	VALUE	
Solid or liquid propellants Propellants	6	0
What evidence do you have regarding bulk propellants?	None	
E. Chemical Warfare Materiel (CWM) and Radiological Weapons:	VALUE	
Toxic chemical agents (choking, nerve, blood, blister)	25	
War Gas Identification Sets	20	
Radiological	15	
Riot Control Agents (vomiting, tear)	5	
Chemical and Radiological (select the largest single value		0

С

Apply this value to Table 1 to determine Hazard Severity Category TABLE 1 HAZARD SEVERITY* DESCRIPTION CATEGORY HAZARD SEVERITY VALUE CATASTROPHIC I 21 and/or greater CRITICAL II 10 to 20 MARGINAL 5 to 9 NEGLIGIBLE V 10 to 4 **NONE V 0	TOTAL HAZARD SEVER 61)	ITY VALUE (Sum of values A thr	cough E (maximum of
DESCRIPTIONCATEGORYHAZARD SEVERITY VALUECATASTROPHICI21 and/or greaterCRITICALII10 to 20MARGINALII5 to 9NEGLIGIBLEIV1 to 4	Apply this value t	TABLE 1	Severity Category
CRITICALII10 to 20MARGINALII5 to 9NEGLIGIBLEIV1 to 4	DESCRIPTION		HAZARD SEVERITY VALUE
	CRITICAL MARGINAL NEGLIGIBLE	I I V V	10 to 20 5 to 9 1 to 4

\*Apply Hazard Severity Category to Table 3 \*\*If hazard severity value is 0, you do not need to complete Part II of this form. Proceed to Part III and use a RAC score of 5 to determine your appropriate action.

3

 $\mathbf{C}$ 

PART II. Hazard Probability. The probability that a hazard has been, or will be, created due to the presence and other rated factors of unexploded ordnance or explosive materials on a formerly used Department of Defense (DoD) site. AREA, EXTENT, ACCESSIBILITY OF OE HAZARD (Circle all that apply) Locations of OE hazards: VALUE Α. (5) On the surface Within tanks, pipes, vessels, or other confined areas 4 Inside walls, ceilings, or other building/structure 3 (2)Subsurface Location (select the single largest value) 5 What evidence do you have regarding location of OE? The suspected OE debris is subsurface. B. Distance to nearest inhabited location/structure VALUE likely to be at risk from OE hazard (road, park, playground, building, etc.) Less than 1,250 feet 5 1,250 feet to 0.5 mile 4 0.5 mile to 1.0 mile 1.0 mile to 2.0 miles Over 2 miles Distance (select the single largest value) 5 What are the nearest inhabited structures/buildings? Cox ranch and U.S. Interstate 5 are approximately 1-mile from this sub site. Number(s) of building(s) within a 2 mile radius VALUE C measured from the OE hazard area, not the installation boundary. 5 26 and over 16 to 25 4 11 to 15 3 6 to 10 1 to 5 0 Number of buildings (select the single largest value) 1 Narrative: Cox Ranch with 5 out building

D. Types of Buildings (within a 2 mile radius)	VALUE
Educational, child care, residential, hospitals hotels, commercial, shopping centers	5
Industrial, warehouse, etc.	4
Agricultural, forestry, etc.	3
Detention, correctional	2
No buildings	0
Types of buildings (select the single largest value) Describe the types of buildings: <u>Home and out-buildings</u>	5
E. Accessibility to site refers to access by humans to ordnance and explosives. Use the following guidance: No barrier nor security system	VALUE 5
Barrier is incomplete (e.g., in disrepair or does not completely surround the site). Barrier is intended to deny egress from the site, as for a barbed wire fence for grazing.	4
A barrier (any kind of fence in good repair) but no separate means to control entry. Barrier is intended to de to the site. Security Guard, but no barrier	eny access
Isolated site	1
A 24-hour surveillance system (e.g., television monitoring or surveillance by guards or facility personnel continuously monitors and controls entry; or, an artificial or natural barrier (e.g., fence combined with a cliff) which completely surrounds the area; and, a means to control entry at all times through the gates or other entrances (e.g., an attendant, television monitors, locked entrances, or controlled roadway access to the area).	0
Accessibility (select the single largest value)	3
Describe the site accessibility: <b>There are locked gates to pas</b> property owner maintains a fence with locked gates around the site.	s through. The

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F. Site Dynamics. are subject to chang at the present. Exa erosion on beaches o that could reduce di inhabited areas or o	e in the future, b mples would be exc r streams, increas stances from the s	ut may be stable essive soil ing land development ite to	VALUE
Expected None anticipate	d		5
Site dynamics (selec Describe the site dy		will remain as grazing land	-
	LITY VALUE (sum of	largest values for A	A through
F (maximum of 30)		largest values for A Table 2 to determine	-
<pre>F (maximum of 30) Apply this value to 3</pre>		Table 2 to determine	-
<pre>F (maximum of 30) Apply this value to 3</pre>	Hazard Probability TABLE	Table 2 to determine	e the Hazar

6

C

Part III. Risk Assessment. The risk assessment value for this site is determined using the following Table. Enter the results of the Hazard Probability and Hazard Severity values. TABLE 3

PROBABILITY LEVEL	FI	REQUENT A	PROBABLE B	OCCASIONAL C	REMOTE D	IMPROBABLE E
SEVERITY						
CATEGORY:						
CATASTROPHIC	I	1	1	2	3	4
CRITICAL	II	1	2	3	4	5
MARGINAL	III	2	3	<b>(</b> 4 <b>)</b>	4	5
NEGLIGIBLE	IV	3	4	4	5	5

RISK ASSESSMENT CODE (RAC)

- RAC 1 Expedite INPR, recommending further action by USAESCH Immediately call USAESCH-OE-S (comm 205-895-1582/1598).
- RAC 2 High priority on completion on INPR Recommend further action by USAESCH.
- RAC 3 Complete INPR Recommend further action by USAESCH.
- RAC 4 Complete INPR Recommend further action by USAESCH.

PART IV. Narrative. Summarize the documented evidence that supports this risk assessment. If no documented evidence was available, explain all the assumptions that you made.

The extent of the subsurface metallic anomalies cover the entire summit and extends approximately 600 feet in all directions.

Recommend an EE/CA to determine if there are any remaining spotting charges in the practice bombs.

To the best of anyone's knowledge, there has been no UXO related incidents since site closure.

RAC 5 Usually indicates that No DoD Action Indicated (NDAI). Submit NDAI and RAC to USAESCH.

19 June 1999

		RISK ASSESSMENT PF	OCEDURES FOR		
		ORDNANCE AND EXPLOSI	VES (OE) SITES		
Site Name	Ver	nalis Dive Bomb/Rocket	Rater's Name	Heleg-Greza,	
	Ran	ge #7		Nickolas	
Site Locat	ion	Stanislaus Cty, CA	- Phone Number	309-782-1486	
DERP Proje	ct #	J09CA107401	Organization	CEMVR-ED-DO	
Date Compl	eted	14 June 2001	Score	4	

#### OE RISK ASSESSMENT: AREA C

This risk assessment procedure was developed in accordance with MIL-STD 882C and AR 385-10. The Risk Assessment Code (RAC) score will be used by the U.S. Army Engineering and Support Center, Huntsville (USAESCH), Ordnance and Explosives Team (USAESCH-OE) to prioritize the remedial action(s) at Formerly Used Defense Sites (FUDS). The risk assessment should be based on the best available information resulting from records searches, reports of Explosive Ordnance Disposal (EOD) Detachments actions, field observations, interviews, and measurements. This information is used to assess the risk involved based on the potential OE hazards identified at the site. The risk assessment is composed of two factors, hazard severity and hazard probability. Personnel involved in visits to potential OE sites should view the USAESCH-OE videotape entitled "A Life Threatening Encounter: OEW". Part 1. Hazard Severity. Hazard severity categories are defined to provide a qualitative measure of the worst credible event resulting from personnel exposure to various types and quantities of unexploded ordnance. TYPE OF ORDNANCE: (Circle all that apply) VALUE

iff of ordinator. (offore all chat apply)	VIIDOLI
A. Conventional ordnance and ammunition:	10
Medium/large caliber (20mm and larger)	10
Bombs, explosive	10
Grenades, hand or rifle, explosive	10
Landmine, explosive	10
Rockets, guided missile, explosive	10
Detonators, blasting caps, fuzes, boosters, bursters	6
Bombs, practice (w/spotting charges)	6
Grenades, practice (w/spotting charges)	4
Landmine, practice (w/spotting charges)	4
Small arms, complete round (.22 cal50 cal)	1
Small arms, expended	0
Practice ordnance (wo/spotting charges)	0
Conventional ordnance and ammunition (largest single value)	6
What evidence do you have regarding conventional unexploded ordnance? The area contains expended practice bombs. However, there are	subsurface
metallic anomalies.	

B. Pyrotechnics (for munitions not described above): Munition (containers) containing White Phosphorus (WP) or other pyrophoric material (i.e., spontaneously flammable)	VALUE 10	
spontaneously flammable) Munition containing a flame or incendiary material (i.e., Napalm, Triethylaluminum metal incendiaries)	6	
Flares, signals, simulators, screening smokes (other WP)	4 th	nan
Pyrotechnics (select the single largest value)	_	0
What evidence do you have regarding pyrotechnics?	None	
C. Bulk High Explosives (HE) (not an integral part of conventional ordnance; uncontainerized): Primary or initiating explosives (Lead Styphnate,	VALUE 10 Le	
Azide, Nitroglycerin, Mercury Azide, Mercury Fulminate, Te		au
etc.) Demolition charges	10	
Secondary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX, HMX, HBX, Black Powder, etc.)	8	
Military dynamite	6	
Less sensitive explosives (Ammonium Nitrate, Explosive D, etc.)	3	
High explosives (select the largest single value)	-	0
What evidence do you have regarding bulk explosives?	None	
D. Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized.	VALUE	
Solid or liquid propellants Propellants	6	0
What evidence do you have regarding bulk propellants?	None	
E. Chemical Warfare Materiel (CWM) and Radiological Weapons:	VALUE	
Toxic chemical agents (choking, nerve, blood, blister)	25	
War Gas Identification Sets	20	
Radiological	15	
Riot Control Agents (vomiting, tear)	5	
Chemical and Radiological (select the largest single value		0
What evidence do you have regarding chemical or radiologic	al?	None

D

Apply this value to Table 1 to determine Hazard Severity Category TABLE 1 HAZARD SEVERITY* DESCRIPTION CATEGORY HAZARD SEVERITY VALUE CATASTROPHIC I 21 and/or greater CRITICAL II 10 to 20 MARGINAL 5 to 9	TOTAL HAZARD SEVERITY 61)	VALUE (Sum of values A t	hrough E (maximum of <b>6</b>
DESCRIPTIONCATEGORYHAZARD SEVERITY VALUECATASTROPHICI21 and/or greaterCRITICALII10 to 20MARGINALII5 to 9	Apply this value to Ta	TABLE 1	d Severity Category
CRITICALII10 to 20MARGINALII5 to 9	DESCRIPTION		HAZARD SEVERITY VALUE
NEGLIGIBLE IV I to 4 **NONE V 0	CRITICAL MARGINAL NEGLIGIBLE	I I I V V	10 to 20 5 to 9 1 to 4

\*Apply Hazard Severity Category to Table 3 \*\*If hazard severity value is 0, you do not need to complete Part II of this form. Proceed to Part III and use a RAC score of 5 to determine your appropriate action.

D

PART II. Hazard Probability. The probability that a hazard has been, or will be, created due to the presence and other rated factors of unexploded ordnance or explosive materials on a formerly used Department of Defense (DoD) site. AREA, EXTENT, ACCESSIBILITY OF OE HAZARD (Circle all that apply) VALUE Α. Locations of OE hazards: On the surface G Within tanks, pipes, vessels, or other confined areas 4 3 Inside walls, ceilings, or other building/structure (2)Subsurface Location (select the single largest value) 5 What evidence do you have regarding location of OE? The suspected OE debris is subsurface. B. Distance to nearest inhabited location/structure VALUE likely to be at risk from OE hazard (road, park, playground, building, etc.) Less than 1,250 feet 5 1,250 feet to 0.5 mile 4 0.5 mile to 1.0 mile 1.0 mile to 2.0 miles Over 2 miles Distance (select the single largest value) 5 What are the nearest inhabited structures/buildings? Cox ranch and U.S. Interstate 5 are approximately 1-mile from this sub site. VALUE C. Number(s) of building(s) within a 2 mile radius measured from the OE hazard area, not the installation boundary. 5 26 and over 4 16 to 25 3 11 to 15 6 to 10 1 to 5 0 Number of buildings (select the single largest value) 1 Narrative: Cox Ranch with 5 outbuilding

4

D. Types of Buildings (within a 2 mile radius)	VALUE
Educational, child care, residential, hospitals hotels, commercial, shopping centers	5
Industrial, warehouse, etc.	4
Agricultural, forestry, etc.	3
Detention, correctional	2
No buildings	0
Types of buildings (select the single largest value)	5
Describe the types of buildings: Home and outbuildings	
E. Accessibility to site refers to access by humans to ordnance and explosives. Use the following guidance:	VALUE
No barrier nor security system	5
Barrier is incomplete (e.g., in disrepair or does not completely surround the site). Barrier is intended to deny egress from the site, as for a barbed wire fence for grazing.	4
A barrier (any kind of fence in good repair) but no separate means to control entry. Barrier is intended to der to the site.	-
Security Guard, but no barrier	2
Isolated site	1
A 24-hour surveillance system (e.g., television monitoring or surveillance by guards or facility personnel continuously monitors and controls entry; or, an artificial or natural barrier (e.g., fence combined with a cliff) which completely surrounds the area; and, a means to control entry at all times through the gates or other entrances (e.g., an attendant, television monitors, locked entrances, or controlled roadway access to the area).	0
Accessibility (select the single largest value)	3
Describe the site accessibility: There are locked gates to pass	through. The
property owner maintains a fence with locked gates around the site.	w

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D

F. Site Dynamics. Thi are subject to change i at the present. Exampl erosion on beaches or s that could reduce dista inhabited areas or othe	In the future, b les would be exc streams, increas ances from the s	ut may be stable essive soil ing land development ite to	VALUE
Expected None anticipated			<b>0</b>
Site dynamics (select v Describe the site dynam		will remain as grazing land	
TOTAL HAZARD PROBABILIT F (maximum of 30)	'Y VALUE (sum of	largest values for A	through <b>19</b>
Apply this value to Haz Probability Level.	ard Probability	Table 2 to determine	e the Hazard
	TABLE	_	
	HAZARD PROBA	ABILITY	
DESCRIPTION	LEVEL	HAZARD PROBABII	ITY VALUE
FREQUENT PROBABLE OCCASIONAL REMOTE IMPROBABLE	A C D E	27 or gre 21 to 2 15 to 2 8 to 1 less tha	2.6 2.0 4
*Apply Hazard Probabili	ty Level to Tab	le 3.	

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D

Part III. Risk Assessment. The risk assessment value for this site is determined using the following Table. Enter the results of the Hazard Probability and Hazard Severity values. TABLE 3

PROBABILITY LEVEL		FREQUENT A	PROBABLE B	OCCASIONAL C	REMOTE D	IMPROBABLE E
SEVERITY						
CATEGORY:						
CATASTROPHIC	Ι	1	1	2	3	4
CRITICAL	ΙI	1	2	3	4	5
MARGINAL	III	2	3	$\overline{4}$	4	5
NEGLIGIBLE	IV	3	4	4	5	5

RISK ASSESSMENT CODE (RAC)

- RAC 1 Expedite INPR, recommending further action by USAESCH Immediately call USAESCH-OE-S (comm 205-895-1582/1598).
- RAC 2 High priority on completion on INPR Recommend further action by USAESCH.
- RAC 3 Complete INPR Recommend further action by USAESCH.
- RAC 4 Complete INPR Recommend further action by USAESCH.

PART IV. Narrative. Summarize the documented evidence that supports this risk assessment. If no documented evidence was available, explain all the assumptions that you made.

The extent of the subsurface metallic anomalies is sporadic and spread out along the roadway. The visible OE debris is mostly made up of miniature practice bombs. All of these were broken up due to the hard surface of this area.

To the best of anyone's knowledge, there has been no UXO related incidents since site closure.

Recommend an EE/CA to determine if there are any remaining spotting charges in the practice bombs that are buried in the softer soil near the summit of the nearby hills.

RAC 5 Usually indicates that No DoD Action Indicated (NDAI). Submit NDAI and RAC to USAESCH.

19 June 1999

	RISK ASSESSMENT PR	OCEDURES FOR	
	ORDNANCE AND EXPLOSI	VES (OE) SITES	
Site Name Verr	nalis Dive Bomb/Rocket	Rater's Name	Heleg-Greza,
Rang	ge #7		Nickolas
Site Location	Stanislaus Cty, CA	Phone Number	309-782-1486
DERP Project # -	J09CA107401	Organization	CEMVR-ED-DO
Date Completed	14 June 2001	Score	4

#### OE RISK ASSESSMENT: AREA D

This risk assessment procedure was developed in accordance with MIL-STD 882C and AR 385-10. The Risk Assessment Code (RAC) score will be used by the U.S. Army Engineering and Support Center, Huntsville (USAESCH), Ordnance and Explosives Team (USAESCH-OE) to prioritize the remedial action(s) at Formerly Used Defense Sites (FUDS). The risk assessment should be based on the best available information resulting from records searches, reports of Explosive Ordnance Disposal (EOD) Detachments actions, field observations, interviews, and measurements. This information is used to assess the risk involved based on the potential OE hazards identified at the site. The risk assessment is composed of two factors, hazard severity and hazard probability. Personnel involved in visits to potential OE sites should view the USAESCH-OE videotape entitled "A Life Threatening Encounter: OEW". Part 1. Hazard Severity. Hazard severity categories are defined to provide a qualitative measure of the worst credible event resulting from personnel exposure to various types and quantities of unexploded ordnance. TYPE OF ORDNANCE: (Circle all that apply) VALUE

A. Conventional ordnance and	ammunition:	10	
Medium/large caliber (20m	m and larger)	10	
Bombs, explosive		10	
Grenades, hand or rifle,	explosive	10	
Landmine, explosive		10	
Rockets, guided missile,	explosive	10	
Detonators, blasting caps	, fuzes, boosters, bursters	6	
Bombs, practice (w/spotti	ng charges)	6	
Grenades, practice (w/spo	tting charges)	4	
Landmine, practice (w/spo	tting charges)	4	
Small arms, complete roun	d (.22 cal50 cal)	1	
Small arms, expended		0	
Practice ordnance (wo/spo	tting charges)	0	
Conventional ordnance and amm	unition (largest single value)		6
	arding conventional unexploded		
	ended practice bombs. However, there ar	e subsurface	
motallic anomaliae			

metallic anomalies.

<ul> <li>B. Pyrotechnics (for munitions not described above):</li> <li>Munition (containers) containing White Phosphorus</li> <li>(WP) or other pyrophoric material (i.e., spontaneously flammable)</li> </ul>	VALUE 10
Munition containing a flame or incendiary material (i.e., Napalm, Triethylaluminum metal incendiaries)	6
Flares, signals, simulators, screening smokes (other WP)	4 than
Pyrotechnics (select the single largest value)	0
What evidence do you have regarding pyrotechnics?	None
C. Bulk High Explosives (HE) (not an integral part of conventional ordnance; uncontainerized):	VALUE
Primary or initiating explosives (Lead Styphnate, Azide, Nitroglycerin, Mercury Azide, Mercury Fulminate, etc.)	10 Lead Tetracene,
Demolition charges	10
Secondary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX, HMX, HBX, Black Powder, etc.)	8
Military dynamite	6
Less sensitive explosives (Ammonium Nitrate, Explosive D, etc.)	3
High explosives (select the largest single value)	0
What evidence do you have regarding bulk explosives?	None
D. Bulk propellants (not an integral part of rockets,	VALUE
guided missiles, or other conventional ordnance; uncontainerized.	
uncontainerized. Solid or liquid propellants	6
uncontainerized. Solid or liquid propellants Propellants	0
uncontainerized. Solid or liquid propellants	_
uncontainerized. Solid or liquid propellants Propellants	0
uncontainerized. Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? E. Chemical Warfare Materiel (CWM) and Radiological	0
<pre>uncontainerized. Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? E. Chemical Warfare Materiel (CWM) and Radiological Weapons: Toxic chemical agents (choking, nerve, blood,</pre>	<u>0</u> None
<pre>uncontainerized. Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? E. Chemical Warfare Materiel (CWM) and Radiological Weapons:</pre>	0 None
<pre>uncontainerized. Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? E. Chemical Warfare Materiel (CWM) and Radiological Weapons: Toxic chemical agents (choking, nerve, blood, blister)</pre>	0 None VALUE 25
<pre>uncontainerized. Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? E. Chemical Warfare Materiel (CWM) and Radiological Weapons: Toxic chemical agents (choking, nerve, blood, blister) War Gas Identification Sets</pre>	0 None VALUE 25 20
<pre>uncontainerized. Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? E. Chemical Warfare Materiel (CWM) and Radiological Weapons: Toxic chemical agents (choking, nerve, blood, blister) War Gas Identification Sets Radiological</pre>	0 None VALUE 25 20 15 5
<pre>uncontainerized. Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? E. Chemical Warfare Materiel (CWM) and Radiological Weapons: Toxic chemical agents (choking, nerve, blood, blister) War Gas Identification Sets Radiological Riot Control Agents (vomiting, tear)</pre>	0 None VALUE 25 20 15 5 ue 0

E

TOTAL HAZARD SEVERITY VALUE (Sum of values A through E (maximum of 61) 6 Apply this value to Table 1 to determine Hazard Severity Category TABLE 1 HAZARD SEVERITY\* DESCRIPTION CATEGORY HAZARD SEVERITY VALUE CATASTROPHIC 21 and/or greater Ι CRITICAL 10 to 20 MARGINAL 5 to 9 1 to 4 NEGLIGIBLE \*\*NONE 0

\*Apply Hazard Severity Category to Table 3 \*\*If hazard severity value is 0, you do not need to complete Part II of this form. Proceed to Part III and use a RAC score of 5 to determine your appropriate action.

E

PART II. <u>Hazard Probability</u> . The probability that a haza or will be, created due to the presence and other rated fa unexploded ordnance or explosive materials on a formerly u Department of Defense (DoD) site. AREA, EXTENT, ACCESSIBILITY OF OE HAZARD (Circle all that	actors of used
A. Locations of OE hazards:	VALUE
On the surface	5
Within tanks, pipes, vessels, or other confined areas	4
Inside walls, ceilings, or other building/structure	3
Subsurface	0
Location (select the single largest value)	5
What evidence do you have regarding location of OE? <b>OE debris is subsurface.</b>	The suspected
B. Distance to nearest inhabited location/structure likely to be at risk from OE hazard (road, park, playgroun etc.) Less than 1,250 feet 1,250 feet to 0.5 mile 0.5 mile to 1.0 mile 1.0 mile to 2.0 miles Over 2 miles	VALUE nd, building, 5 4 3 2 1
Distance (select the single largest value)	5
What are the nearest inhabited structures/buildings? U.S. Interstate 5 are approximately 1-mile from this sub site.	Cox ranch and
C. Number(s) of building(s) within a 2 mile radius measured from the OE hazard area, not the installation boundary.	VALUE
26 and over 16 to 25 11 to 15 6 to 10 1 to 5 0	5 4 3 2 0
Number of buildings (select the single largest value) Narrative: Cox Ranch with 5 outbuilding	

4

Ε

D. Types of Buildings (within a 2 mile radius)	VALUE
Educational, child care, residential, hospitals hotels, commercial, shopping centers Industrial, warehouse, etc.	<b>5</b> 4
	-
Agricultural, forestry, etc.	3
Detention, correctional	2
No buildings	0
Types of buildings (select the single largest value) Describe the types of buildings: Home and outbuildings	5
E. Accessibility to site refers to access by humans to ordnance and explosives. Use the following guidance: No barrier nor security system	VALUE 5
<pre>Barrier is incomplete (e.g., in disrepair or does not completely surround the site). Barrier is intended to deny egress from the site, as for a barbed wire fence for grazing. A barrier (any kind of fence in good repair) but no separate means to control entry. Barrier is intended to de to the site.</pre>	-
Security Guard, but no barrier	2
Isolated site	1
A 24-hour surveillance system (e.g., television monitoring or surveillance by guards or facility personnel continuously monitors and controls entry; or, an artificial or natural barrier (e.g., fence combined with a cliff) which completely surrounds the area; and, a means to control entry at all times through the gates or other entrances (e.g., an attendant, television monitors, locked entrances, or controlled roadway access to the area).	0
Accessibility (select the single largest value)	3
Describe the site accessibility: There are locked gates to past	s through. The
property owner maintains a fence with locked gates around the site.	

E

F. Site Dynamics. Thi are subject to change i at the present. Exampl erosion on beaches or s that could reduce dista inhabited areas or othe	n the future, b es would be exc streams, increas nces from the s	out may be stable essive soil sing land development site to	JE
Expected None anticipated			$\overline{\mathbf{b}}$
Site dynamics (select w Describe the site dynam		will remain as grazing land	
TOTAL HAZARD PROBABILIT F (maximum of 30)	Y VALUE (sum of	largest values for A thro	ough 19
Apply this value to Haz Probability Level.	ard Probability	Table 2 to determine the	Hazard
-	TABLE		
	HAZARD PROBA	ABILITY	
DESCRIPTION	LEVEL	HAZARD PROBABILITY V	/ALUE
FREQUENT PROBABLE OCCASIONAL REMOTE IMPROBABLE	A B D D E	27 or greater 21 to 26 15 to 20 8 to 14 less than 8	
*Apply Hazard Probabili	ty <u>Level</u> to Tab	le 3.	

Ε

Part III. Risk Assessment. The risk assessment value for this site is determined using the following Table. Enter the results of the Hazard Probability and Hazard Severity values. TABLE 3

PROBABILITY	FRI	EQUENT	PROBA	BLE	OCCAS	IONAL	REMO	TE	IMPRO	BABLE
LEVEL		A	В		С		D			E
SEVERITY										
CATEGORY:										
CATASTROPHIC	I	1	1			2	3		4	
CRITICAL	II	1	2			3	4		5	
MARGINAL	III	2	3		(	4)	4		5	
NEGLIGIBLE	IV	3	4			4	5		5	

RISK ASSESSMENT CODE (RAC)

RAC 1 Expedite INPR, recommending further action by USAESCH - Immediately call USAESCH-OE-S (comm 205-895-1582/1598).

- RAC 2 High priority on completion on INPR Recommend further action by USAESCH.
- RAC 3 Complete INPR Recommend further action by USAESCH.
- RAC 4 Complete INPR Recommend further action by USAESCH.

PART IV. Narrative. Summarize the documented evidence that supports this risk assessment. If no documented evidence was available, explain all the assumptions that you made.

The visible OE debris in this sub site are 100-practice bombs. Many of them are located in a streambed that runs alongside an old roadbed. The extent of subsurface metallic

anomalies is sporadic and spread out along the streambed and the roadbed.

To the best of anyone's knowledge, there has been no UXO related incidents since site closure.

Recommend an EE/CA to determine if there are any remaining spotting charges in the practice bombs that are buried in the softer soil further up the hill.

E

RAC 5 Usually indicates that No DoD Action Indicated (NDAI). Submit NDAI and RAC to USAESCH.

19 June 1999

	RISK ASSESSMENT PRO	OCEDURES FOR	
	ORDNANCE AND EXPLOSI	VES (OE) SITES	
Site Name Ver	nalis Dive Bomb/Rocket	Rater's Name	Heleg-Greza,
Ran	ge #7		Nickolas
Site Location	Stanislaus Cty, CA	Phone Number	309-782-1486
DERP Project #	J09CA107401	Organization	CEMVR-ED-DO
Date Completed	14 June 2001	Score	4

### OE RISK ASSESSMENT: AREA E

This risk assessment procedure was developed in accordance with MIL-STD 882C and AR 385-10. The Risk Assessment Code (RAC) score will be used by the U.S. Army Engineering and Support Center, Huntsville (USAESCH), Ordnance and Explosives Team (USAESCH-OE) to prioritize the remedial action(s) at Formerly Used Defense Sites (FUDS). The risk assessment should be based on the best available information resulting from records searches, reports of Explosive Ordnance Disposal (EOD) Detachments actions, field observations, interviews, and measurements. This information is used to assess the risk involved based on the potential OE hazards identified at the site. The risk assessment is composed of two factors, hazard severity and hazard probability. Personnel involved in visits to potential OE sites should view the USAESCH-OE videotape entitled "A Life Threatening Encounter: OEW". Part 1. Hazard Severity. Hazard severity categories are defined to provide a qualitative measure of the worst credible event resulting from personnel exposure to various types and quantities of unexploded ordnance. TYPE OF ORDNANCE: (Circle all that apply) VALUE

A. Conventional ordnance and ammunition:	10	
Medium/large caliber (20mm and larger)	10	
Bombs, explosive	10	
Grenades, hand or rifle, explosive	10	
Landmine, explosive	10	
Rockets, guided missile, explosive	10	
Detonators, blasting caps, fuzes, boosters, bursters	6	
Bombs, practice (w/spotting charges)	6	
Grenades, practice (w/spotting charges)	4	
Landmine, practice (w/spotting charges)	4	
Small arms, complete round (.22 cal50 cal)	1	
Small arms, expended	0	
Practice ordnance (wo/spotting charges)	0	
Conventional ordnance and ammunition (largest single value)	_	0

What evidence do you have regarding conventional unexploded ordnance? <u>Witnesses stated that the navy buried the ordnance as they cleared the targets</u> in the vicinity. This is supported by subsurface metallic anomalies.

<ul> <li>B. Pyrotechnics (for munitions not described above):</li> <li>Munition (containers) containing White Phosphorus</li> <li>(WP) or other pyrophoric material (i.e., spontaneously flammable)</li> </ul>	VALUE 10	
Munition containing a flame or incendiary material (i.e., Napalm, Triethylaluminum metal incendiaries) Flares, signals, simulators, screening smokes (other	6 4 th	an
WP) Pyrotechnics (select the single largest value)		0
What evidence do you have regarding pyrotechnics?	None	
C. Bulk High Explosives (HE) (not an integral part of conventional ordnance; uncontainerized):	VALUE	
Primary or initiating explosives (Lead Styphnate, Azide, Nitroglycerin, Mercury Azide, Mercury Fulminate, Te etc.)	10 Le etracene,	ad
Demolition charges	10	
Secondary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX, HMX, HBX, Black Powder, etc.)	8	
Military dynamite	6	
Less sensitive explosives (Ammonium Nitrate, Explosive D, etc.)	3	
High explosives (select the largest single value)	_	0
What evidence do you have regarding bulk explosives?	None	
D. Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized	VALUE	
	VALUE 6	0
guided missiles, or other conventional ordnance; uncontainerized. Solid or liquid propellants		0
guided missiles, or other conventional ordnance; uncontainerized. Solid or liquid propellants Propellants	6	0
<pre>guided missiles, or other conventional ordnance; uncontainerized. Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? E. Chemical Warfare Materiel (CWM) and Radiological</pre>	6	0
<pre>guided missiles, or other conventional ordnance; uncontainerized. Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? E. Chemical Warfare Materiel (CWM) and Radiological Weapons: Toxic chemical agents (choking, nerve, blood,</pre>	6 None	0
<pre>guided missiles, or other conventional ordnance; uncontainerized. Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? E. Chemical Warfare Materiel (CWM) and Radiological Weapons:</pre>	6 <b>None</b> VALUE	0
<pre>guided missiles, or other conventional ordnance; uncontainerized. Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? E. Chemical Warfare Materiel (CWM) and Radiological Weapons: Toxic chemical agents (choking, nerve, blood, blister)</pre>	6 <b>None</b> VALUE 25	0
<pre>guided missiles, or other conventional ordnance; uncontainerized. Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? E. Chemical Warfare Materiel (CWM) and Radiological Weapons: Toxic chemical agents (choking, nerve, blood, blister) War Gas Identification Sets</pre>	6 None VALUE 25 20	0
<pre>guided missiles, or other conventional ordnance; uncontainerized. Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? E. Chemical Warfare Materiel (CWM) and Radiological Weapons: Toxic chemical agents (choking, nerve, blood, blister) War Gas Identification Sets Radiological</pre>	6 <b>None</b> VALUE 25 20 15 5	0
<pre>guided missiles, or other conventional ordnance; uncontainerized. Solid or liquid propellants Propellants What evidence do you have regarding bulk propellants? E. Chemical Warfare Materiel (CWM) and Radiological Weapons: Toxic chemical agents (choking, nerve, blood, blister) War Gas Identification Sets Radiological Riot Control Agents (vomiting, tear)</pre>	6 None VALUE 25 20 15 5	

F

\*Apply Hazard Severity Category to Table 3 \*\*If hazard severity value is 0, you do not need to complete Part II of this form. Proceed to Part III and use a RAC score of 5 to determine your appropriate action.

F

Part III. Risk Assessment. The risk assessment value for this site is determined using the following Table. Enter the results of the Hazard Probability and Hazard Severity values. TABLE 3

PROBABILITY LEVEL	F	REQUENT A	PROBABLÉ B	OCCASIONAL C	REMOTE D	IMPROBABLE E
SEVERITY						
CATEGORY :						
CATASTROPHIC	I	1	1	2	3	4
CRITICAL	ΙI	1	2	3	4	5
MARGINAL	III	2	3	4	4	5
NEGLIGIBLE	IV	3	4	4	5	5

RISK ASSESSMENT CODE (RAC)

- RAC 1 Expedite INPR, recommending further action by USAESCH Immediately call USAESCH-OE-S (comm 205-895-1582/1598).
- RAC 2 High priority on completion on INPR Recommend further action by USAESCH.
- RAC 3 Complete INPR Recommend further action by USAESCH.
- RAC 4 Complete INPR Recommend further action by USAESCH.
- RAC 5 Usually indicates that No DoD Action Indicated (NDAI). Submit NDAI and RAC to USAESCH.

PART IV. Narrative. Summarize the documented evidence that supports this risk assessment. If no documented evidence was available, explain all the assumptions that you made.

This location is a suspected ordnance burial site. The extent of subsurface metallic anomalies resembles a trench, which supports witness statement that ordnance was buried here following a surface clearance.

To the best of anyone's knowledge, there has been no UXO related incidents since site closure.

Recommend an EE/CA to determine if there are any remaining spotting charges in the practice bombs that are buried at this location.

F

19 June 1999

	RISK ASSESSMENT PR	OCEDURES FOR	
	ORDNANCE AND EXPLOSI	VES (OE) SITES	
Site Name Ver	nalis Dive Bomb/Rocket	Rater's Name	Heleg-Greza,
Ran	ge #7		Nickolas
Site Location	Stanislaus Cty, CA	Phone Number	309-782-1486
DERP Project #	J09CA107401	Organization	CEMVR-ED-DO
Date Completed	14 June 2001	Score	4

#### OE RISK ASSESSMENT: AREA F

This risk assessment procedure was developed in accordance with MIL-STD 882C and AR 385-10. The Risk Assessment Code (RAC) score will be used by the U.S. Army Engineering and Support Center, Huntsville (USAESCH), Ordnance and Explosives Team (USAESCH-OE) to prioritize the remedial action(s) at Formerly Used Defense Sites (FUDS). The risk assessment should be based on the best available information resulting from records searches, reports of Explosive Ordnance Disposal (EOD) Detachments actions, field observations, interviews, and measurements. This information is used to assess the risk involved based on the potential OE hazards identified at the site. The risk assessment is composed of two factors, hazard severity and hazard probability. Personnel involved in visits to potential OE sites should view the USAESCH-OE videotape entitled "A Life Threatening Encounter: OEW". Part 1. Hazard Severity. Hazard severity categories are defined to provide a qualitative measure of the worst credible event resulting from personnel exposure to various types and quantities of unexploded ordnance TYPE OF ORDNANCE: (Circle all that apply) VALUE

THE OF ORDINANCE. (CHICLE all chat apply)	
A. Conventional ordnance and ammunition:	10
Medium/large caliber (20mm and larger)	10
Bombs, explosive	10
Grenades, hand or rifle, explosive	10
Landmine, explosive	10
Rockets, guided missile, explosive	10
Detonators, blasting caps, fuzes, boosters, bursters	6
Bombs, practice (w/spotting charges)	6
Grenades, practice (w/spotting charges)	4
Landmine, practice (w/spotting charges)	4
Small arms, complete round (.22 cal50 cal)	1
Small arms, expended	0
Practice ordnance (wo/spotting charges)	0
Conventional ordnance and ammunition (largest single value)	6
What evidence do you have regarding conventional unexploded ordnance? The area contains scattered OE debris from miniature and 100-pract	ice bombs.

bombs. The same with subsurface metallic anomalies.

<ul> <li>B. Pyrotechnics (for munitions not described above):</li> <li>Munition (containers) containing White Phosphorus (WP) or other pyrophoric material (i.e., spontaneously flammable)</li> </ul>	VALUE 10	
Munition containing a flame or incendiary material (i.e., Napalm, Triethylaluminum metal incendiaries) Flares, signals, simulators, screening smokes (other	6 4 th	an
WP)	4 UI.	lan
Pyrotechnics (select the single largest value)	-	0
What evidence do you have regarding pyrotechnics?	None	
C. Bulk High Explosives (HE) (not an integral part of conventional ordnance; uncontainerized):	VALUE	
Primary or initiating explosives (Lead Styphnate, Azide, Nitroglycerin, Mercury Azide, Mercury Fulminate, T etc.)	10 Le etracene,	ad
Demolition charges	10	
Secondary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX, HMX, HBX, Black Powder, etc.)	8	
Military dynamite	6	
Less sensitive explosives (Ammonium Nitrate, Explosive D, etc.)	3	
High explosive D, etc.) High explosives (select the largest single value)	_	0
What evidence do you have regarding bulk explosives?	None	<u></u>
D. Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized.	VALUE	
Solid or liquid propellants Propellants	6	0
What evidence do you have regarding bulk propellants?	None	
E. Chemical Warfare Materiel (CWM) and Radiological Weapons:	VALUE	
Toxic chemical agents (choking, nerve, blood, blister)	25	
War Gas Identification Sets	20	
Radiological	15	
Riot Control Agents (vomiting, tear)	5	
Chemical and Radiological (select the largest single valu	e	0
What evidence do you have regarding chemical or radiologi	cal?	None
		_

TOTAL HAZARD SEVERIT 61)	Y VALUE (Sum of values A thr	rough E (maximum of
Apply this value to	Table 1 to determine Hazard TABLE 1 HAZARD SEVERITY*	Severity Category
DESCRIPTION	CATEGORY	HAZARD SEVERITY VALUE
CATASTROPHIC CRITICAL MARGINAL NEGLIGIBLE **NONE	I IV V V	21 and/or greater 10 to 20 5 to 9 1 to 4 0

\*Apply Hazard Severity Category to Table 3 \*\*If hazard severity value is 0, you do not need to complete Part II of this form. Proceed to Part III and use a RAC score of 5 to determine your appropriate action.

PART II. Hazard Probability. The probability that a hazard has been, or will be, created due to the presence and other rated factors of unexploded ordnance or explosive materials on a formerly used Department of Defense (DoD) site. AREA, EXTENT, ACCESSIBILITY OF OE HAZARD (Circle all that apply) VALUE Locations of OE hazards: Α. (5) On the surface 4 Within tanks, pipes, vessels, or other confined areas 3 Inside walls, ceilings, or other building/structure (2)Subsurface Location (select the single largest value) 5 What evidence do you have regarding location of OE? The suspected OE debris is subsurface. B. Distance to nearest inhabited location/structure VALUE likely to be at risk from OE hazard (road, park, playground, building, etc.) Less than 1,250 feet 1,250 feet to 0.5 mile 4 0.5 mile to 1.0 mile 1.0 mile to 2.0 miles Over 2 miles Distance (select the single largest value) 5 What are the nearest inhabited structures/buildings? Cox ranch and U.S. Interstate 5 are approximately 1-mile from this sub site. C. Number(s) of building(s) within a 2 mile radius VALUE measured from the OE hazard area, not the installation boundary. 5 26 and over 4 3 2 1 16 to 25 11 to 15 6 to 10 1 to 5 0 Number of buildings (select the single largest value) 1 Narrative: Cox Ranch with 5 outbuilding

4

	ypes of Buildings (within a 2 mile radius)	VALUE
h	ducational, child care, residential, hospitals otels, commercial, shopping centers ndustrial, warehouse, etc.	<b>5</b> 4
A	gricultural, forestry, etc.	З
De	etention, correctional	2
N	buildings	0
	of buildings (select the single largest value) be the types of buildings: <u>Home and outbuildings</u>	
ordna	ccessibility to site refers to access by humans to nce and explosives. Use the following guidance: b barrier nor security system	VALUE 5
Ba Co de	arrier is incomplete (e.g., in disrepair or does not ompletely surround the site). Barrier is intended to any egress from the site, as for a barbed wire fence	4
A separa to the	or grazing. barrier (any kind of fence in good repair) but no ate means to control entry. Barrier is intended to de e site. ecurity Guard, but no barrier	ny acco
Is	solated site	1
A mo ar w: ar th te	24-hour surveillance system (e.g., television onitoring or surveillance by guards or facility ersonnel continuously monitors and controls entry; or, a artificial or natural barrier (e.g., fence combined th a cliff) which completely surrounds the area; ad, a means to control entry at all times through be gates or other entrances (e.g., an attendant, elevision monitors, locked entrances, or controlled badway access to the area). sibility (select the single largest value)	1 0

•\_\_\_\_\_

F. Site Dynamics. Thi are subject to change i at the present. Exampl erosion on beaches or s that could reduce dista inhabited areas or othe	n the future, b es would be exc treams, increas nces from the s	out may be stable essive soil sing land development site to	ALUE
Expected None anticipated			<b>0</b>
Site dynamics (select v	alue)		0
Describe the site dynam	ics: The site	will remain as grazing land	
TOTAL HAZARD PROBABILIT F (maximum of 30)	Y VALUE (sum of	largest values for A t	hrough <b>19</b>
Apply this value to Haz Probability Level.	ard Probability	Table 2 to determine t	he Hazard
1	TABLE	2	
	HAZARD PROB	ABILITY	
DESCRIPTION	LEVEL	HAZARD PROBABILIT	Y VALUE
FREQUENT	А	27 or greate	er
PROBABLE	B	21 to 26 15 to 20	
OCCASIONAL REMOTE	Ç	15 LO 20 8 to 14	
IMPROBABLE	E	less than 8	3
*Apply Hazard Probabili	ty Level to Tak	ole 3.	

Part III. Risk Assessment. The risk assessment value for this site is determined using the following Table. Enter the results of the Hazard Probability and Hazard Severity values.

PROBABILITY	FR	EQUENT	PROBABLE	OCCASIONAL	REMOTE	IMPROBABLE
LEVEL		A	В	С	D	E
SEVERITY						
CATEGORY:						
CATASTROPHIC	I	1	1	2	3	4
CRITICAL	II	1	2	3	4	5
MARGINAL	III	2	3	(4)	4	5
NEGLIGIBLE	IV	3	4	4	5	5

RISK ASSESSMENT CODE (RAC)

RAC 1 Expedite INPR, recommending further action by USAESCH - Immediately call USAESCH-OE-S (comm 205-895-1582/1598).

- RAC 2 High priority on completion on INPR Recommend further action by USAESCH.
- RAC 3 Complete INPR Recommend further action by USAESCH.
- RAC 4 Complete INPR Recommend further action by USAESCH.

PART IV. Narrative. Summarize the documented evidence that supports this risk assessment. If no documented evidence was available, explain all the assumptions that you made.

This sub area is relatively clear of OE debris. The occasional items are broken miniature and 100-pound practice bombs. There is the occasional subsurface metallic anomaly further away from the targets. The SI team thinks that these are from target misses.

Recommend an EE/CA to determine if there are any remaining spotting charges in the practice bombs that may have impacted on the softer hillsides..

To the best of anyone's knowledge, there has been no UXO related incidents since site closure.

RAC 5 Usually indicates that No DoD Action Indicated (NDAI). Submit NDAI and RAC to USAESCH.

EP 1110-1-18

19 June 1999

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#### RISK ASSESSMENT PROCEDURES FOR ORDNANCE AND EXPLOSIVES (OE) SITES

		TED (OE/ DIIED	
Site Name Ver	nalis Dive Bomb/Rocket	Rater's Name	Heleg-Greza,
Rar	nge #7		Nickolas
Site Location	Stanislaus Cty, CA	Phone Number	309-782-1486
DERP Project #	J09CA107401	Organization	CEMVR-ED-DO
Date Completed	14 June 2001	Score	5

### OE RISK ASSESSMENT: AREA G

This risk assessment procedure was developed in accordance with MIL-STD 882C and AR 385-10. The Risk Assessment Code (RAC) score will be used by the U.S. Army Engineering and Support Center, Huntsville (USAESCH), Ordnance and Explosives Team (USAESCH-OE) to prioritize the remedial action(s) at Formerly Used Defense Sites (FUDS). The risk assessment should be based on the best available information resulting from records searches, reports of Explosive Ordnance Disposal (EOD) Detachments actions, field observations, interviews, and measurements. This information is used to assess the risk involved based on the potential OE hazards identified at the site. The risk assessment is composed of two factors, hazard severity and hazard probability. Personnel involved in visits to potential OE sites should view the USAESCH-OE videotape entitled "A Life Threatening Encounter: OEW". Part 1. Hazard Severity. Hazard severity categories are defined to provide a qualitative measure of the worst credible event resulting from personnel exposure to various types and quantities of unexploded ordnance.

TYPE OF ORDNANCE: (Circle all that apply)	VALUE
A. Conventional ordnance and ammunition:	10
Medium/large caliber (20mm and larger)	10
Bombs, explosive	10
Grenades, hand or rifle, explosive	10
Landmine, explosive	10
Rockets, guided missile, explosive	10
Detonators, blasting cap's, fuzes, boosters, bursters	6
Bombs, practice (w/spotting charges)	6
Grenades, practice (w/spotting charges)	4
Landmine, practice (w/spotting charges)	4
Small arms, complete round (.22 cal50 cal)	1
Small arms, expended	0
Practice ordnance (wo/spotting charges)	0
Conventional ordnance and ammunition (largest single value)	
What evidence do you have regarding conventional unexploded ordnance? <b>None</b>	

B. Pyrotechnics (for munitions not described above): Munition (containers) containing White Phosphorus (WP) or other pyrophoric material (i.e., spontaneously flammable)	VALUE 10	
Munition containing a flame or incendiary material (i.e., Napalm, Triethylaluminum metal incendiaries) Flares, signals, simulators, screening smokes (other	6 4 th	an
WP) Pyrotechnics (select the single largest value)	1 011	_
What evidence do you have regarding pyrotechnics?	 None	0
	None	
C. Bulk High Explosives (HE) (not an integral part of conventional ordnance; uncontainerized):	VALUE	
Primary or initiating explosives (Lead Styphnate, Azide, Nitroglycerin, Mercury Azide, Mercury Fulminate, Te	10 Le tracene,	ad
etc.) Demolition charges	10	
Secondary explosives (PETN, Compositions A, B, C,	8	
Tetryl, TNT, RDX, HMX, HBX, Black Powder, etc.) Military dynamite	6	
Less sensitive explosives (Ammonium Nitrate, Explosive D, etc.)	3	
High explosives (select the largest single value)	_	0
What evidence do you have regarding bulk explosives?	None	
D. Bulk propellants (not an integral part of rockets, guided missiles, or other conventional ordnance; uncontainerized.	VALUE	
Solid or liquid propellants Propellants	6	0
What evidence do you have regarding bulk propellants?	None	
E. Chemical Warfare Materiel (CWM) and Radiological Weapons:	VALUE	
Toxic chemical agents (choking, nerve, blood, blister)	25	
War Gas Identification Sets	20	
Radiological	15	
Riot Control Agents (vomiting, tear)	5	
Chemical and Radiological (select the largest single value		
chemical and hadiological (beloce the fargest single farge	-	0
What evidence do you have regarding chemical or radiologic		0 None

TOTAL HAZARD SEVERIT 61)	IY VALUE (Sum of values A th	rough E (maximum of <b>6</b>
Apply this value to	Table 1 to determine Hazard TABLE 1	Severity Category
	HAZARD SEVERITY*	
DESCRIPTION	CATEGORY	HAZARD SEVERITY VALUE
CATASTROPHIC	I	21 and/or greater
CRITICAL	II	10 to 20
MARGINAL	III	5 to 9
NEGLIGIBLE	IV	1 to 4
* *NONE	$\overline{\mathbf{v}}$	0
	0	
		·····

\*Apply Hazard Severity Category to Table 3 \*\*If hazard severity value is 0, you do not need to complete Part II of this form. Proceed to Part III and use a RAC score of 5 to determine your appropriate action.

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Part III. Risk Assessment. The risk assessment value for this site is determined using the following Table. Enter the results of the Hazard Probability and Hazard Severity values. TABLE 3

PROBABILITY LEVEL	F	REQUENT A	PROBABLE B	OCCASIONAL C	REMOTE D	IMPROBABLE E
SEVERITY CATEGORY:			<u> </u>			
CATASTROPHIC	I	1	1	2	3	4
CRITICAL	ΙI	1	2	3	4	5
MARGINAL	III	2	3	4	4	5
NEGLIGIBLE	IV	3	4	4	5	5

RISK ASSESSMENT CODE (RAC)

- RAC 1 Expedite INPR, recommending further action by USAESCH Immediately call USAESCH-OE-S (comm 205-895-1582/1598).
- RAC 2 High priority on completion on INPR Recommend further action by USAESCH.
- RAC 3 Complete INPR Recommend further action by USAESCH.
- RAC 4 Complete INPR Recommend further action by USAESCH.

PART IV. Narrative. Summarize the documented evidence that supports this risk assessment. If no documented evidence was available, explain all the assumptions that you made.

The SI team did not see or note any subsurface metallic anomalies in this area. Recommend a NDAI for this sub area.

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RAC 5 Usually indicates that No DoD Action Indicated (NDAI). Submit NDAI and RAC to USAESCH.

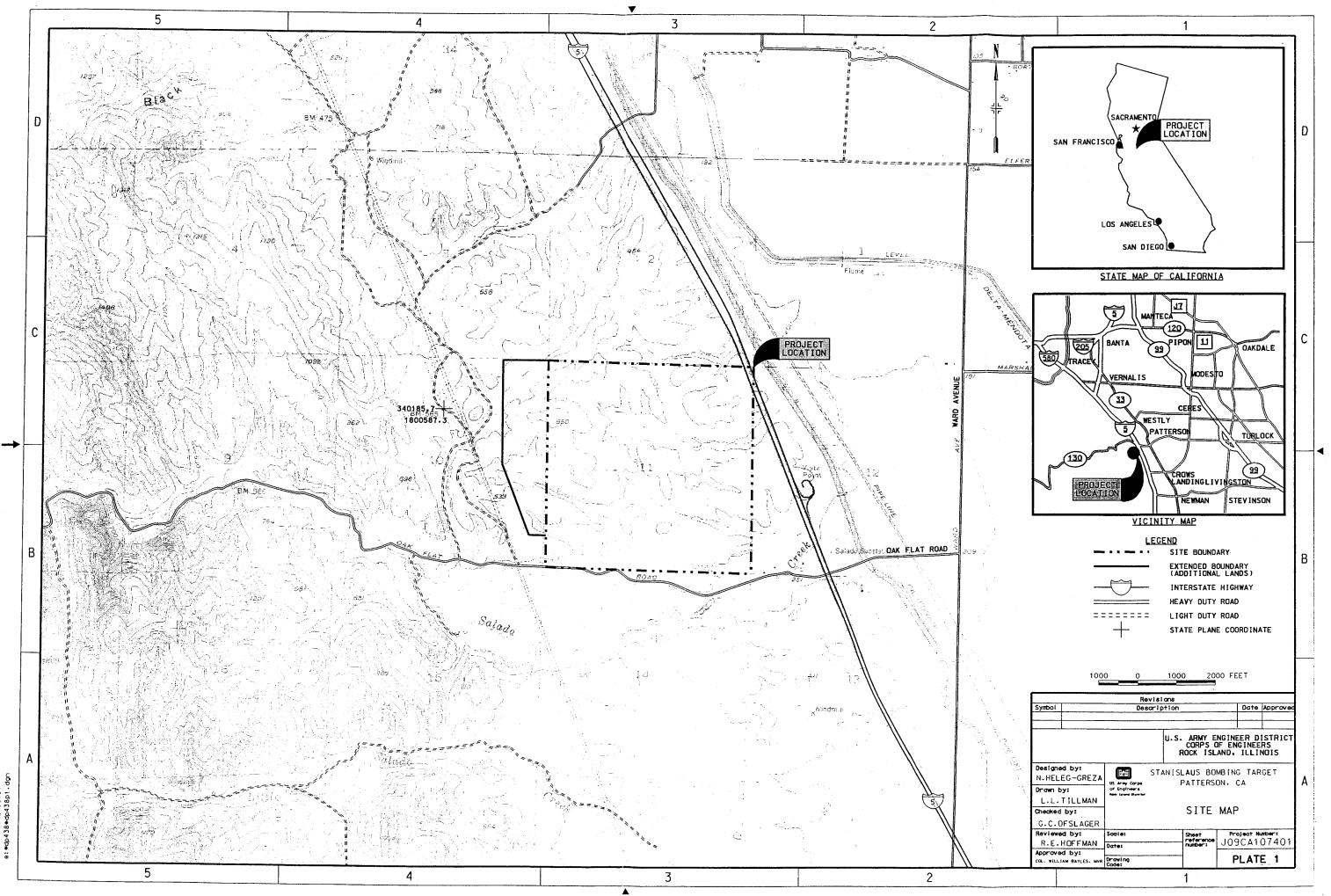
# ORDNANCE AND EXPLOSIVES ARCHIVES SEARCH REPORT FOR STANISLAUS BOMBING TARGET STANISLAUS COUNTY, CALIFORNIA PROJECT NUMBER JO9CA107401

### REPORT PLATES

## REPORT PLATES

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- 1. SITE MAP
- 2. TARGET LAYOUT CIRCA 1945
- 3. OE PROJECT AREAS / CURRENT OWNERSHIP
- 4. PHOTOGRAPH LOCATIONS



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