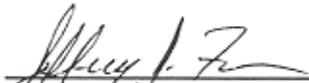


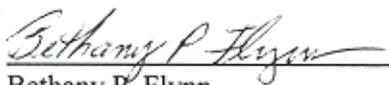
**Draft Final  
Literature Review Report  
Ordnance and Explosives  
Remedial Investigation/Feasibility Study  
Former Fort Ord, California**

Prepared for

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HLA Project No. 46310 00176

  
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This document was prepared by Harding Lawson Associates at the direction of the U.S. Army Corps of Engineers (USACE) for the sole use of the Army, USACE, and regulatory agencies, the only intended beneficiaries of this work. No other party should rely on the information contained herein without the prior written consent of the USACE and Army. This report and the interpretations, conclusions, and recommendations contained within are based in part on information presented in other documents that are cited in the text and listed in the references. Therefore, this report is subject to the limitations and qualifications presented in the referenced documents.

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## **DISTRIBUTION**

## ACRONYM LIST

APHE	Armor Piercing High Explosive
AP	Anti-Personnel or Armor Piercing
API	Armor Piercing Incendiary
ARF Range	Automatic Rifle Firing Range
AR Table	Automatic Rifle Table
ARTEP	Army Training and Evaluation Program
ASP	Ammunition Supply Point
ASR	Archives Search Report
AT	Anti-Tank
ATT	Army Training Test
ATWES	Anti-Tank Weapons Effect Simulator
BAC	Bayonet Assault Course
Biv	Bivouac
BIP	Blow In Place
BLM	Bureau of Land Management
BM	Bench Mark
BRAC	Base Realignment and Closure
BTA	Bayonet Training Area
BTC	Bayonet Training Course
CAIS	Chemical Agent Identification Sets
Cal	Caliber
CBR	Chemical, Biological, Radiological
CC	Combat Command
CEHNC	U.S. Army Engineering and Support Center, Huntsville
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERFA	Community Environmental Response Facilitation Act
CMS	CMS Environmental Inc.
CTG	Cartridge
CX	Center of Expertise
EOD	Explosive Ordnance Disposal
E & D	Engineering and Design
EE/CA	Engineering Evaluation and Cost Analysis
FAAF	Fritzsche Army Airfield
FBTA	Field Battalion Training Area
FCC	Flight Communications Center
FCCC	Field Communication Crewman Course
FORA	Fort Ord Reuse Authority
FP	Firing Point
FRC	Fort Ord Range Control/Former Range Control
FSA	Food Service Area
FUDS	Formerly Used Defense Sites
HE	High Explosive
HEAT	High Explosive Anti-Tank
HFA	Human Factors Applications, Inc.
HMP	Habitat Management Plan
HHCA	Hand to Hand Combat Area

HUMRO	Human Research Resources Organization
IDL	Infantry Division Light
Infl Crse	Infiltration Course
IRP	Installation Restoration Program
ITT	Inter Theater Transfer (manual)
LAW	Light Anti-Tank Weapon
LOR2	Lookout Ridge Part II
LSBT	Laguna Seca Bus Turn-around
LSOS	Laguna Seca Open Spaces
LST11	Laguna Seca Turn 11 Expansion
LRC	Leadership Reaction Course
LVDC	Light Vehicle Driving Course
MBA	Mine and Booby-Trap Area
MG	Machine Gun
MRA	Multi-Range Area
MST	Mechanics Support Team (manual)
MTR	Mortar
NCOA	Non-Commissioned Officer Academy
NCP	National Contingency Plan
OE	Ordnance and Explosives
OWR	Oil Well Road
PCPTA	Physical Combat Proficiency Test Area
PTA	Physical Training Area
PTL	Primary Target Line
RIC	Rifle Instruction Circle
RI/FS	Remedial Investigation Feasibility Study
Rng	Range
ROTC	Reserve Officers' Training Corps
RR	Recoilless Rifle
RRTA	Recoilless Rifle Training Area
RSOP	Reconnaissance, Selection, and Occupation of Position
SAW Range	Semi-automatic Assault Weapon Range
SC	Signal Corps
SMAW	Shoulder Fired Medium Assault Weapon
SOP	Standard Operating Procedure
SP	Start Point
ST	Service Test
TCRA	Time-Critical Removal Action
TD	Target Detection
TRADOC	Training and Doctrine Command
TS	Training Site
USA	USA International, Inc.
USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service
UXB	UXB International, Inc.
UXO	Unexploded Ordnance

## **EXECUTIVE SUMMARY**

This report presents the results of the Literature Review, the first step in evaluating existing ordnance and explosives (OE) related information in support of the OE Remedial Investigation/Feasibility Study (OE RI/FS) for the former Fort Ord, as required under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This Literature Review Report summarizes the results of locating and retrieving OE-related information that will be used to identify areas where OE-related activities occurred or were suspected to have occurred at Fort Ord. Identified OE sites or areas will be further evaluated in the OE RI/FS.

### ***OE-Related Background***

From its founding in 1917 until 1940, Fort Ord served primarily as a training and maneuver area for field artillery and cavalry units stationed at the Presidio of Monterey. In 1940 the post was expanded to more than 20,000 acres and served as a staging area for many fighting divisions and units during World War II and subsequent international conflicts. From 1947 to 1975, the installation was a basic training center. After 1975, the post was deactivated, and the 7<sup>th</sup> Infantry Division (Light) occupied the installation; light infantry troops operate without heavy tanks or armor. Military training on Fort Ord continued until base closure in 1994.

During much of Fort Ord's history, cavalry, field artillery, and infantry units used portions of the installation for maneuvers, target ranges, and other purposes. OE that have been fired into, fired upon, or used on the facility include artillery and mortar projectiles, rockets and guided missiles, rifle and hand grenades, land mines, pyrotechnics, bombs, and demolition materials. OE is present at Fort Ord as either unexploded ordnance (UXO) or ordnance scrap.

### ***Elements of Literature Review***

The Literature Review builds upon the 1997 Revised Archives Search Report (ASR) completed by the U.S. Army Corps of Engineers, St. Louis District. The ASR contains the greatest amount of comprehensive information of ordnance use at the former Fort Ord. The ASR identified all known and suspected ordnance sites based on the review and research of records from Fort Ord, national repositories, local information sources (e.g., libraries), and interviews with active and former Fort Ord military personnel. The ordnance sites were identified as areas for further investigation.

The Literature Review process included gathering and searching files from multiple sources. Previous investigations at Fort Ord that documented OE-related activities were reviewed along with historical records. Historical records reviewed included historical maps, range control files (including construction records, Dud clearance records and training area location maps), aerial photographs, historical film footage, real estate records, Bureau of Land Management (BLM) and ordnance contractor incident reports and newspaper articles. Interviews were conducted with retired military personnel, active Corps of Engineers employees, persons present as active servicemen at Fort Ord from the 1930s through base closure in 1994, and current ordnance removal contractors.

### ***Results***

The Literature Review resulted in the identification of three types of potential OE areas at Fort Ord: (1) existing or suspected OE areas identified in the ASR, (2) training areas and/or suspected areas where no evidence of live fire was discovered, and (3) additional suspected areas where live fire may have occurred. This review also resulted in the identification of training facilities as described below.

## **Potential OE Areas**

### **Known or Suspected OE Areas**

The existing or suspected OE sites are those identified in the ASR and comprise previously documented areas of known or suspected ordnance use that have been investigated or are currently undergoing investigation. Previous ordnance use, history of the site, and methods of ordnance clearance and removal for each of these OE sites will be discussed and evaluated in the OE RI/FS.

### **Training Facilities**

Several training areas were identified in the Literature Review that were considered suspect based on the designation provided on maps or information discovered during file reviews. These areas included machine gun squares, mortar squares, rifle instructional circles, a tank ranging area, proficiency test areas, the known distance ranges, recoilless rifle training areas, a close combat course, and OE sweep areas. Because no evidence was found that would support the use of ordnance at these locations, they are considered non OE training areas. In addition, these areas were located in close proximity to major roads or housing areas, did not have range fans identified on training maps, and were generally much smaller in size than known live fire areas. In general, live ordnance was not used in training areas.

## **Additional Suspect Areas**

In addition to the areas identified above, several areas were identified that have the potential to contain buried ordnance items or where the use of live ordnance may have occurred. These areas include the Tank Gunnery Range and the Combat Ranges 1, 2, and 3. These areas were identified primarily on the basis of a review of historical training maps and aerial photographs. These areas are considered suspect and will require further evaluation during the OE RI/FS process.

### **Areas Designated as Non OE Areas**

Based on review of information sources found to date (including aerial photographs, facilities training maps, range and training files, interviews, Fort Ord specific documents, and other sources), areas have been delineated for which no evidence of ordnance use has been found. The designation of areas as non OE areas is based mainly on review of training facilities maps and aerial photographs, the presence or absence of physical features associated with live fire areas (e.g., range fans, disturbed vegetation), and interviews with former Fort Ord and military personnel. Other factors considered include: (1) physical location of the feature, (2) development history, and (3) results of the remedial investigation and excavation activities at Installation Restoration Program (IRP) sites.

## 1.0 INTRODUCTION

This Literature Review report has been prepared by Harding Lawson Associates (HLA) on behalf of the U.S. Army Corps of Engineers (USACE), Sacramento District, to address OE at the former Fort Ord, Monterey County, California (Plate 1). Preparation of this report is the first step in evaluating existing ordnance and explosives (OE) related information in support of the OE Remedial Investigation/Feasibility Study (OE RI/FS) as required under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This Literature Review report summarizes the results of locating and retrieving OE-related documents that will be used to identify areas where OE-related activities occurred or were suspected to have occurred at Fort Ord. Identified OE sites or areas will be further evaluated and targeted for remedial actions in the OE RI/FS. Areas not identified as suspected OE areas based on the information presented herein will be identified as candidates for no further ordnance-related investigation or action.

The documentation in this report will be used to support property transfer decisions under the base realignment and closure (BRAC) plan. Chemical contamination and associated remedial options were addressed at RI sites in the Final Basewide Remedial Investigation/Feasibility Study (HLA, 1995).

This document includes Army responses to written regulatory agency and public comments received on the Draft Literature Review Report dated September 24, 1999. Responses to regulatory agency comments are provided in Appendix D. Responses to written comments received from entities other than the regulatory agencies are provided in Appendix E. Applicable comments on the Draft document were incorporated into the text of this document.

HLA prepared this report in accordance with USACE Scope of Work (SOW) dated 0056, Delivery Order 0046, Contract DACA05-96-D-0007.

### 1.1 Purpose

The purpose of this report is to identify all locations within the boundary of Fort Ord at the time of base closure in 1994, where OE-related activities occurred or were suspected to have occurred. This documentation process is necessary to satisfy RI/FS requirements under CERCLA. The literature review was used to create a master record of all Fort Ord OE-related documentation identified to date. The Fort Ord Geographical Information System (GIS) is currently being updated to include the OE-related information. The literature review findings will also support the development of future Fort Ord decision documents and no further action decisions.

### 1.2 Report Organization

This Literature Review report was prepared in accordance with the U.S. Environmental Protection Agency's (EPA's) *Guidance for Conducting Remedial Investigations and Feasibility Studies under CERCLA (EPA, 1988)*. Report organization is as follows:

- Section 2 – OE-related history and physical setting
- Section 3 – Literature review guidance followed for this report
- Section 4 – Elements of the literature review
- Section 5 – Literature review results
- Section 6 – References.

## 2.0 FORT ORD OE-RELATED HISTORY AND PHYSICAL SETTING

This section summarizes the history of OE use at Fort Ord and describes the physical setting.

### 2.1 OE-Related History

#### 2.1.1 Historical Use

Military training on Fort Ord began in approximately 1917, when the U.S. Department of the Army (Army) purchased property that includes the present-day East Garrison and nearby lands on the southeast central side of Fort Ord (15,609.5 acres) and a portion of the present-day Main Garrison (200 acres; Plate 2). The property was used as maneuver and training ground primarily for the 11<sup>th</sup> Cavalry and the 76<sup>th</sup> Field Artillery stationed at the Presidio of Monterey. During the spring and summer the 30<sup>th</sup> Infantry Regiment stationed at the Presidio of San Francisco also participated in maneuvers as did other Reserved National Guard units (*USAEDH, 1993*) (*Gillis, 1999*). Additionally, the Stanford University Reserve Officers' Training Corps (ROTC) Field Artillery batteries trained at Fort Ord (*FAJ, 1929*). Training camps on base at this time included tent and mess areas such as Camp Pacific, Camp Huffman, and Camp Clayton.

Until the 1940s the installation was used as a maneuver area and field target range for infantry, cavalry, and artillery units. In 1940 the post was expanded to more than 20,000 acres and served as a staging area for many fighting divisions and units during World War II and subsequent international conflicts (*TSCRRC, 1993*). The 7<sup>th</sup> Infantry Division was activated at the base in July of 1940 and was the first major unit to occupy Fort Ord. During World War II, the post was a staging area for many fighting divisions and units. Following World War II, the post was home to the 4<sup>th</sup> Infantry Division, which trained soldiers for the Korean conflict. The 4<sup>th</sup> Infantry Division was moved to Fort Benning in 1950 and replaced by the 6<sup>th</sup> Infantry Division (*TSCRRC, 1993*). The 6<sup>th</sup>

Infantry Division occupied Fort Ord until 1956. In 1957 Fort Ord was designated United States Army Training Center, Infantry (*USAEDH, 1997*). Basic and advanced infantry training continued until the training center was deactivated in 1974. At this time the 7<sup>th</sup> Infantry Division once again occupied the installation. The 7<sup>th</sup> Infantry Division was converted to a light division in 1983. The 7<sup>th</sup> Infantry Division (Light) included infantry and field artillery battalions, as well as an aviation brigade (*Army, 1989*).

Fort Ord was selected in 1991 for closure and the 7<sup>th</sup> Infantry Division was relocated to Fort Lewis. Troop reallocation was not completed until 1993. The base was officially closed in September 1994. Although Army personnel still operate the base, no active Army division is stationed at Fort Ord.

#### 2.1.2 History of OE Use

After 1917, when the base was established, cavalry, field artillery, and infantry units used portions of Fort Ord for maneuvers, target ranges, and other purposes. OE that have been fired into, fired upon, or used on the facility include artillery and mortar projectiles, rockets and guided missiles, rifle and hand grenades, land mines, pyrotechnics, bombs, and demolition materials. OE is anything related to munitions designed to cause damage to personnel or material through explosive force, or incendiary action, including bombs, warheads, missiles, projectiles, rockets, small arms ammunition, antipersonnel and antitank mines, demolition charges, pyrotechnics, grenades, torpedoes and depth charges, high explosives and propellants, and all similar and related items or components explosive in nature or otherwise designed to cause damage to personnel or material.

OE is present at Fort Ord as either OE or ordnance scrap. A wide variety of conventional

UXO items have been located at sites throughout Fort Ord, including pyrotechnics and explosives.

### **2.1.3 Summary of Existing OE Sampling and Removal Program**

Known or suspected OE sites were identified in the 1997 Draft Revised Archive Search Report (ASR) (an update of previous ASRs). The ordnance sites were identified as areas for further investigation. The Phase 1 Engineering Evaluation/Cost Analysis (EE/CA) (USACE, 1997) utilized information in the ASR and identified known OE sites at the time of its issue. The Phase 1 EE/CA addressed 29 OE sites and subsites, and the Phase 2 Engineering Evaluation/Cost Analysis (Phase 2 EE/CA; U.S. Army, 1998) addressed the remaining OE sites, including any potential future OE sites. The Phase 1 and Phase 2 EE/CAs were developed to describe the UXO removal and management activities for sites known or suspected to contain UXO. Plate 3 shows previously identified, known, or suspected OE sites based on the most recent data available. The sites are also listed in Table 1.

The Army conducted and documented OE sampling and removal actions to address threats to public health or welfare or the environment using the Time-Critical Removal Action (TCRA) or the EE/CA and Action Memorandum processes. Plate 4 shows the current OE sampling and removal status at each site.

Removal actions were implemented based on the discovery of OE-related hazards identified during the area reconnaissance and/or site sampling. These removal actions were conducted as TCRA as described in the Fort Ord Ordnance and Explosive Waste Time-Critical Removal Action Memorandum (Army, 1994). In November 1998, the Army decided to evaluate OE at Fort Ord in an OE RI/FS under the Comprehensive Environmental Response, Compensation, and Liability Act

(CERCLA). The Army is preparing the OE RI/FS to address OE-related hazards on Fort Ord, which will include input from the community and will require regulatory agency review and approval. The OE RI/FS will evaluate past removal actions as well as recommend future response actions deemed necessary to protect human health and the environment under future uses.

The Army will continue conducting OE sampling and removal actions at identified OE sites to mitigate imminent explosive hazards to the public while gathering data about the type of OE and level of explosive hazard at each of the sites. The information gathered will be used in the OE RI/FS. The OE RI/FS will contain a comprehensive evaluation of all OE-related data for the entire Fort Ord and will evaluate long term response alternatives for cleanup and risk management of OE.

Removal actions may continue at OE sites under a non-time critical mechanism described in the *Final Action Memorandum, Phase 2 Engineering Evaluation/Cost Analysis, Ordnance and Explosives Sites, Former Fort Ord, Monterey County, California (Army, 1999)*. The Phase 2 EE/CA Action Memorandum addresses UXO removal actions at OE sites while the OE RI/FS is being conducted and provides recommendations for UXO removal actions contained in the Phase 2 EE/CA (Army, 1999). Because past military training activities resulted in the deposition of UXO in some areas on Fort Ord, the Phase 1 and Phase 2 EE/CAs were developed to describe the UXO removal and management activities for sites known or suspected to contain UXO. The Phase 1 EE/CA Action Memorandum 1 addressed 12 OE sites for which no further removal actions were recommended. The Phase 2 EE/CA Action Memorandum addresses the remaining OE sites on Fort Ord for which the Phase 2 EE/CA established a “plug-in” evaluation process designed to address any UXO situation on Fort Ord.

The Phase 2 EE/CA addressed additional known or suspected OE sites not evaluated in Action Memorandum 1 by developing categories for each site based on: (1) expected type of UXO present, (2) soil type, and (3) future land use of the site. Five removal alternatives were developed to address each category of site. UXO data were obtained from the ASR prepared in December 1993, the ASR Supplement prepared in November 1994, and the Revised Draft ASR completed in 1997 (*USAEDH, 1993, 1994, 1997*). A preliminary site reconnaissance was conducted as part of the ASR to further identify/characterize potential OE sites; the results are contained in excerpts of the 1997 ASR, which are provided in Appendix A of this report.

Appendixes D and E of the Phase 2 EE/CA provide a summary of the number and types of UXO and ordnance scrap found during removal actions at OE sites on Fort Ord at the time the EE/CA was prepared. Data on UXO and ordnance scrap identified since that time, and on an ongoing basis as removal actions are performed, will be provided in After Action Reports and in the OE RI/FS.

The Army is the lead agency for OE removal activities at Fort Ord. However, the regulatory agencies (the United States Environmental Protection Agency [EPA] and the California Department of Health Services [now known as the Department of Toxic Substances Control DTSC, or Cal-EPA]) have been and will continue to be involved and provide direction during OE removal activities. The Army is performing its activities in compliance with the detailed process described in the National Contingency Plan (NCP) for conducting a CERCLA removal action.

## **2.2 Physical Setting**

The following sections summarize the location and general physical setting of the base, including intended land uses.

### **2.2.1 Location**

Fort Ord is adjacent to Monterey Bay in northwestern Monterey County, California, approximately 80 miles south of San Francisco (Plate 1). The base consists of approximately 28,000 acres adjacent to the cities of Seaside, Sand City, Monterey, and Del Rey Oaks to the south and Marina to the north. The Southern Pacific Railroad and Highway 1 pass through the western part of Fort Ord, separating the beachfront portions from the rest of the base. The south and southeast of Fort Ord are bordered by unincorporated portions of Monterey County, and include several communities as well as the Laguna Seca Recreation Area and Toro Regional Park. Land immediately east of Fort Ord is primarily agricultural.

### **2.3 Land Use**

This section provides a summary of Fort Ord's land use.

#### **2.3.1 Land Use**

Fort Ord consists of both developed and undeveloped land. The three principal developed areas are the East Garrison, the Fritzsche Army Airfield (FAAF), and the Main Garrison; these areas collectively comprise approximately 8,000 acres. The remaining 20,000 acres are largely undeveloped areas.

Before the Army's acquisition of the property, land in the vicinity of the present-day Main Garrison was primarily agricultural, and the remainder of the property was covered with chaparral and oak woodland. No permanent improvements were made until the late 1930s, when administrative buildings, barracks, mess halls, tent pads, and a sewage treatment plant were constructed in the present-day East Garrison.

In 1940, additional agricultural property was purchased for the further development and expansion of the Main Garrison. At the same time, the beachfront property was donated to the

Army. Building construction in the Main Garrison began in 1940 and continued into the 1980s, starting in the northwest corner of the base and expanding southward and eastward. Additional property south of the current boundary and west of Laguna Seca was leased by the Army from 1941 to 1944 (Plate 2). During the 1940s and 1950s, a small airfield within the Main Garrison was present in what is now the South Parade Ground. In the early 1960s the FAAF was completed. The Main Garrison airfield was then decommissioned and its facilities were redeveloped as motor pools and other facilities. Subinstallations of the complex included Fort Hunter Liggett, Camp Roberts, Fort Macarthur (responsible for reserve training), and the Presidio of Monterey.

Land uses in both areas that were the developed and undeveloped areas when Fort Ord was active are described below.

### **2.3.2.1 Developed Land**

With up to 15,000 active-duty military personnel and 5,100 civilians during its active history, developed areas at Fort Ord resembled a medium-sized city, with family housing, medical facilities, warehouses, office buildings, industrial complexes, and gas stations. Individual land-use categories were as follows:

- Residential areas included military housing, such as training and temporary personnel barracks, enlisted housing, and officer housing.
- Local services/commercial areas provided retail or other commercial services, such as gas stations, minimarkets, and fast-food facilities.
- Military support/industrial areas included industrial operations, such as motor pools, machine shops, a cannibalization yard (area where serviceable parts are removed from damaged vehicles), and the FAAF.

- Mixed land-use areas combined residential, local services/commercial, and military support operations.
- Schools included the Thomas Hayes Elementary, Roger S. Fitch Junior High, General George S. Patton Elementary, and Gladys Stone schools. High school students attended Seaside High, outside Fort Ord's southwest boundary.
- Hospital facilities included the Silas B. Hayes Army Hospital, medical and dental facilities, and a helipad.
- Training areas included physical training areas, firing ranges, and maneuver areas.
- Recreational areas included a golf course and clubhouse, baseball diamonds, tennis courts, and playgrounds.

The three principal developed areas are described below.

#### ***East Garrison***

The East Garrison is on the northeast side of the base, adjacent to undeveloped training areas. Military/industrial support areas at the East Garrison include tactical vehicle storage facilities, defense recycling and disposal areas, a sewage treatment plant, and small arms ranges. Also at the East Garrison was recreational open space, including primitive camping facilities, baseball diamonds, a skeet range, and tennis courts. Recreational open space comprised 25 of the approximately 350 acres of the East Garrison.

#### ***Fritzsche Army Airfield***

The FAAF is in the northern portion of Fort Ord, on the north side of Reservation Road and adjacent to the city limits of Marina. The primary land use was for military/industrial support operations; facilities include airstrips, a motor park, aircraft fuel facilities, a sewage treatment plant, aircraft maintenance facilities,

an air control tower, a fire and rescue station, and aircraft hangars.

### **Main Garrison**

The Southern Pacific Railroad right-of-way and Highway 1 separate the coastal zone from Fort Ord's Main Garrison. The Main Garrison consisted of a complex combination of the various land-use categories. Facilities included schools; a hospital; housing; commercial facilities, including a dry cleaner and a gasoline service station; and industrial operations, including motor pools and machine shops.

#### **2.3.2.2 Undeveloped Land**

Undeveloped land is described as coastal zone areas and inland areas.

### **Coastal Zone**

A system of sand dunes lies between Highway 1 and the shoreline. The western edge of the dunes has an abrupt drop of 40 to 70 feet, and the dunes reach an elevation of 140 feet above mean sea level (MSL) on the gentler, eastern slopes. The dunes provide a buffer zone that isolates the Beach Trainfire Ranges from the shoreline to the west. In some areas, spent ammunition has accumulated on the dune slopes as the result of years of range operation. Stilwell Hall (a recreation center), numerous target ranges, ammunition storage facilities, and two inactive sewage treatment facilities lie east of the dunes.

Monterey County has designated Fort Ord's coastal zone an environmentally sensitive area because of the presence of rare and/or endangered species and because of its visual attributes. The California Natural Coordinating Council (CNCC) and the Heritage Conservation and Recreation Service (HCRS) have identified the dunes at Fort Ord as among the best coastal dunes in California because of significant features including coastal strand vegetation comprising many exotic ice plants and the habitat of the black legless lizard (*Monterey County Planning Department [MCPD], 1984*).

### **Inland Areas**

Undeveloped land in the inland portions of Fort Ord included the Multi Range Area (MRA) and infantry training areas, portions of which were used for livestock grazing and recreational activities such as hunting, fishing, and camping. These undeveloped areas are primarily left in their natural state, with minor development of facilities.

#### **2.3.3 Future Land Use**

The future land uses presented in this section are based primarily upon the Fort Ord Reuse Authority (FORA) March 1997 Fort Ord Base Reuse Plan (*FORA, 1997*), and the July 1995 SUMP (*USACE and BLM, 1995*). Other sources of future land use include public benefit conveyance, negotiated sale requests, transfer documents, and the Installation-Wide Multi-Species Habitat Management Plan (HMP; *USACE, 1997*). The Reuse Plan identified approximately 20 land use categories at Fort Ord (*FORA, 1997*) including habitat management, open space/recreation, institutional/public facilities, commercial, industrial/business park, residential, tourism, mixed use, and others. The land-use areas adapted from the HMP are shown on Plate 5.

#### **2.3.4 OE Site Categories**

The Phase 2 EE/CA provided a mechanism to assign the remaining OE sites to one of four categories. The four categories are based on maximum UXO penetration depth, UXO detection limits, and future land use requirements. Future land use requirements were considered in the Phase 2 EE/CA for categorizing sites. The Phase 2 EE/CA categories are described as follows and will be further evaluated in the OE RI/FS:

- Category A sites are sites where no UXO was found during sampling.
- Category B sites are sites where UXO was found during sampling or is suspected to be

on the site. The UXO detection limit is at least as deep as the maximum UXO penetration depth. Maximum UXO penetration depth is not deeper than the removal depth required to support future land use.

- Category C sites are sites where UXO was found during sampling or is suspected to be onsite. The UXO detection limit is not as deep as the maximum UXO penetration depth, nor is the detection limit as deep as the removal depth required to support future land use.
- Category D sites are sites where UXO was found during sampling or is suspected to be onsite. The UXO detection limit is at least as deep as the removal depth required to support future land use. Maximum UXO penetration depth is deeper than the removal depth required to support future land use.

## 2.4 Site Features

### 2.4.1 Climate

The area's climate is characterized by warm, dry summers and cool, rainy winters. The Pacific Ocean is the principal influence on the climate at Fort Ord, causing fog and onshore winds that moderate temperature extremes. Daily ambient air temperatures typically range from 40 to 70 degrees Fahrenheit (F), but temperatures in the low 100s have occurred. Thick fog is common in the morning throughout the year. Winds are generally from the west.

The average annual rainfall of 14 inches occurs almost entirely between November and April. Because the predominant soil is permeable sand, runoff is limited and streamflow occurs only intermittently and within the very steep canyons in the eastern portion of Fort Ord.

### 2.4.2 Ecological Setting

Fort Ord is located on California's central coast, a biologically diverse and unique region. The range and combination of climactic,

topographic, and soil conditions at the former Fort Ord supports many biological communities. Field surveys were conducted from 1991 through 1994 to provide detailed site-specific, as well as basewide information regarding plant communities, botanical resources, observed and expected wildlife, and biological resources of concern. Plant communities were mapped for the whole base as described in the *Draft Basewide Biological Inventory, Fort Ord, California, dated December 8, 1992*.

Several of the former Fort Ord plant communities have been combined for simplification. The 12 plant communities described at former Fort Ord sites include: coast live oak woodland (coastal and inland); central maritime chaparral; central coastal scrub; grassland; developed/landscaped and disturbed dunes; dune scrub; iceplant mats; riparian forest; wetlands (including vernal pools and freshwater marsh); and coastal strand (Plate 6). Central maritime chaparral is the most extensive natural community, occupying approximately 12,500 acres in the south-central portion of the base. Oak woodlands are widespread and occupy the next largest area, about 5,000 acres. Grasslands, primarily in the southeastern and northern portions of the base, occupy approximately 4,500 acres. The other community types generally occupy less than 500 acres each. The remaining approximately 4,000 acres of the base are considered fully developed and not defined as ecological communities.

Special-status biological resources are those resources, including plant and wildlife taxa and native biological communities, that receive various levels of protection under local, state, or federal laws, regulations, or policies. The closure and disposal of former Fort Ord is considered a major federal action that could affect several species proposed for listing or listed as threatened or endangered under the federal Endangered Species Act (ESA). The U.S. Department of Fish and Wildlife Services (USFWS) final Biological Conference Opinion for the Disposal and Reuse of Fort Ord

(USFWS, 1993) required that a habitat management plan be developed and implemented to reduce the incidental take of listed species and loss of habitat that supports these species. The HMP for former Fort Ord complies with the USFWS biological opinion and establishes the guidelines for the conservation and management of wildlife and plant species and habitats that largely depend on former Fort Ord land for survival (USACE, 1997). Of the 12 plant communities identified at Fort Ord, two are considered rare or declining and of highest inventory priority by the California Department of Fish and Game (CDFG, 1997): central maritime chaparral and valley needlegrass grassland. Special-status taxa that occur or potentially occur in the plant communities at Fort Ord include 22 vascular plants, 1 invertebrate, 4 reptiles, 1 amphibian, 9 birds, and 2 mammals.

**2.4.3 Topography and Surface Waters**

Elevations at Fort Ord range from approximately 900 feet MSL near Impossible Ridge, on the east side of the base, to sea level at the beach. The predominant topography of the area reflects a morphology typical of the dune sand deposits that underlie the western and northern portions of the base. In these areas, the ground surface slopes gently west and northwest, draining toward Monterey Bay. Runoff is minimal due to the high rate of surface water infiltration into the permeable dune sand; consequently, well-developed natural drainages are absent throughout much of this area. Closed drainage depressions typical of dune topography are common.

The topography in the southeastern third of the base is notably different from the rest of the base. This area has relatively well-defined, eastward-flowing drainage channels within narrow, moderately to steeply sloping canyons. Runoff is into the Salinas Valley.

**2.4.4 Subsurface Conditions**

**2.4.4.1 Geology**

Fort Ord is within the Coast Ranges Geomorphic Province. The region consists of northwest-trending mountain ranges, broad basins, and elongated valleys generally paralleling the major geologic structures. In the Coast Ranges, older, consolidated rocks are characteristically exposed in the mountains but are buried beneath younger, unconsolidated alluvial fan and fluvial sediments in the valleys and lowlands. In the coastal lowlands, these younger sediments commonly interfinger with marine deposits.

Fort Ord is at the transition between the mountains of the Santa Lucia Range and the Sierra de la Salinas to the south and southeast, respectively, and the lowlands of the Salinas River Valley to the north. The geology of Fort Ord generally reflects this transitional condition; older, consolidated rock is exposed at the ground surface near the southern base boundary and becomes buried under a northward-thickening sequence of poorly consolidated deposits to the north. Fort Ord and the adjacent areas are underlain, from depth to ground surface, by one or more of the following older, consolidated units:

- Mesozoic granitic and metamorphic rocks
- Miocene marine sedimentary rocks of the Monterey Formation
- Upper Miocene to lower Pliocene marine sandstone of the Santa Margarita Formation (and possibly the Pancho Rico and/or Purisima Formations).

Locally, these units are overlain and obscured by geologically younger sediments, including:

- Plio-Pleistocene alluvial fan, lake, and fluvial deposits of the Paso Robles Formation

- Pleistocene eolian and fluvial sands of the Aromas Sand
- Pleistocene to Holocene valley fill deposits consisting of poorly consolidated gravel, sand, silt, and clay
- Pleistocene and Holocene dune sands
- Recent beach sand
- Recent alluvium.

The geology of Fort Ord is described in detail in Volume II of the Final Basewide RI/FS, Basewide Hydrogeologic Characterization (HLA, 1995a). Generalized soil types for Fort Ord are presented on Plate 7.

#### **2.4.4.2 Hydrogeology**

Recent studies of Fort Ord hydrogeology concluded that the base straddles two distinct groundwater basins, the Salinas and Seaside basins (Geotechnical Consultants, Inc. [GTC], 1984; Staal, Gardner & Dunne, Inc. [SGD], 1987). Fort Ord includes the southwestern edge of the Salinas basin and the eastern portion of the smaller Seaside basin. The Salinas basin

underlies the northern and southeastern portions of the base, and the Seaside basin underlies the southern and southwestern areas. Basewide RI/FS sites with recognized groundwater contamination are limited to the Salinas groundwater basin at Fort Ord; therefore, only the Salinas basin is described in detail in this Literature Review.

The Salinas groundwater basin is relatively large and extends well beyond the boundaries of Fort Ord. At Fort Ord, the Salinas basin is composed of relatively flat-lying to gently dipping poorly consolidated sediments. Although relatively simple structurally, the sediments are stratigraphically complex, reflecting a variety of depositional environments. Aquifers within the Salinas basin at Fort Ord, from top to bottom, include the unconfined A-aquifer, the confined Upper 180-foot aquifer, the confined and unconfined Lower 180-foot aquifer, and the confined 400-foot and 900-foot aquifers. These aquifer names reflect local historical water levels and are not directly correlated to present water levels at Fort Ord.

Groundwater extraction by the City of Marina, by Fort Ord, and by irrigation wells in the Salinas Valley have historically induced seawater intrusion into the Lower 180-foot and the 400-foot aquifers. Seawater intrusion continues to affect these aquifers. Intrusion into the Upper 180-foot aquifer appears to be limited to the vicinity of the beach at Fort Ord (HLA, 1999b).

### 3.0 GUIDANCE FOLLOWED FOR LITERATURE REVIEW

The literature review process followed the COE guidance *Procedures for Conducting Preliminary Assessments at Potential Ordnance Response Sites* (USACE, 1995). Other guidance documents outlined procedures and identified information sources for conducting historical record research and include the:

- COE Huntsville Center, Ordnance and Explosives Center of Expertise Interim Guidance for Archives Searches at Potential Ordnance Response Sites, September 5, 1995 (USAEDH, 1995)
- EPA Guidance for Performing Preliminary Assessments under CERCLA (EPA, 1991), and
- ASTM Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process (ASTM, 1995).

## 4.0 ELEMENTS OF LITERATURE REVIEW

This section describes the sources of information used in the Literature Review. The Literature Review process included gathering and searching files from multiple sources outlined below. Detailed data on all information sources reviewed were recorded on OE files search forms (Appendix B). The search forms included information on the location of the file, point of contact (including address and telephone number), author, source of the information, and information on the contents of the file. The search forms will be filed with a copy of its referenced documents or the location where the document is archived depending on its size. The sources of information are described in the next sections.

### 4.1 Previous Investigations

The results of previous investigations at Fort Ord that contain historical information related to OE were reviewed. Information in the following reports was used to establish the boundaries of the previously known or suspected OE sites shown on Plate 3:

- Volume 1 of the *Literature Review and Base Inventory Report (EA, 1991)* – Historical information on development at Fort Ord and interviews with former Fort Ord personnel
- *Community Environmental Response Facilitation Act (CERFA) Report (Little, 1994)* – A review of Fort Ord property transaction records
- *Data Summary and Work Plan, Site 39 – Inland Ranges (HLA, 1994)* – Investigation results for several locations within Site 39, the Multi-Range Area
- *Archives Search Reports (ASRs; [USAEDH, 1993, 1994, 1997])* – Detailed historical literature review and interviews with former Fort Ord personnel.

The ASR contains the greatest amount of comprehensive information on ordnance use at the Fort Ord. Sources of information reviewed in the process of completion of the ASRs included aerial photo coverage of Fort Ord in 1941, 1949, 1956, and 1992; National Archives and Records Administration, Pacific Sierra Division, San Bruno, California, the Pacific Southwest Region, Laguna Niguel, California, and the Suitland Branch, Suitland, Maryland; National Personnel Records Center, Military Records, St. Louis, Missouri; Naval Postgraduate School, Monterey California; Fort Ord fire department records; Monterey County Library, Seaside branch, Seaside, California; Salinas City Library, Salinas, California; Monterey Public Library, Monterey, California; the Monterey History and Art Association, Monterey, California; and interviews with former Fort Ord personnel. Other sources of historical information reviewed for this report include:

- *Final Basewide Remedial Investigation/ Feasibility Study, Fort Ord, California (HLA, 1995)*
- *Engineering Evaluation/Cost Analysis – Phase 1, Former Fort Ord, Monterey County, California (USACE and ESCH, 1997)*
- *Engineering Evaluation/Cost Analysis – Phase 2, Former Fort Ord, Monterey County, California (USACE and ESCH, 1998)*
- *Draft Action Memorandum 1 – Twelve Sites, Phase 1 Engineering Evaluation/Cost Analysis, Ordnance and Explosives Sites, Former Fort Ord, Monterey County, California (Army, 1998)*
- *Draft Action Memorandum, Phase 2 Engineering Evaluation/Cost Analysis, Ordnance and Explosives Sites, Former*

*Fort Ord, Monterey County, California (Army, 1999)*

- *Enhanced Preliminary Assessment of Monterey Bay (HLA, 1999a)* – A review of historical activities along the coast of Fort Ord
- HLA’s Basewide Remedial Investigation Site Characterization Reports from 1993 through 1995.

**4.2 Historical Records**

This section presents a summary of the historical records reviewed as part of the literature search. Additional sources of information are still being gathered and will be reviewed and added to subsequent versions of this report as they are acquired. The types of records reviewed are summarized below and include: (1) former range control records, (2) historical maps, (3) aerial photographs and photo maps, (4) videotapes of historical film footage, (5) Fort Ord historical real estate records, (6) historical newspaper articles, (7) records from the Presidio of Monterey historian's office, (8) ordnance incident reports, and (9) interviews.

**4.2.1 Former Range Control Records**

Former range control records located at Fort Ord were reviewed. The records included files for specified training areas and ranges. Types of information present in the files include standard operating procedures (SOPs) and range regulation documentation, construction plans, location maps, ordnance clearance memorandums, and diagrams of physical training courses. Most of the information contained in the files dated from the early 1970s through the early 1990s. The records were obtained from the Range Control files covering the period 1975 through 1993. These records contain information on sweeps conducted both inside the MRA and outside the MRA. Most of the information is negative information (i.e.,

sweep conducted, but no live ordnance found). The records do indicate that several items were found within existing OE sites and several items were located outside existing known or suspected OE sites. Table 5 lists the items found, date of incident and OE-Site if applicable.

**4.2.2 Historical Maps**

The following types of maps were reviewed: (1) topographic maps dating from 1913; (2) training and facilities maps from 1945 through 1992; (3) facilities maps from the 1940s, and (4) assessor’s plat maps from 1922.

Table 2 presents a list of the maps reviewed and their references. Example training maps, one from each decade from 1940 until 1990, are presented as Appendix C.

**4.2.3 Aerial Photographs**

Aerial photographs and photo maps dating from the early 1940s through 1994 were reviewed to evaluate whether additional training areas not identified on historical maps may have been present. Table 3 presents a list of the aerial photographs and photo maps reviewed along with a short description of the area covered and date of the photograph.

**4.2.4 Historical Film Footage**

Historical film footage identified by the Presidio of Monterey historian and through a search of the National Archives was obtained and reviewed. The film footage included 1938 footage titled *A Day in the Life of a Cavalry Soldier* and 1941 National Archives footage on activities at Fort Ord, California, in 1940. Activities documented in the films included cavalry training, rifle and machine gun practice, artillery and mortar training, night maneuvers, building of the Main Garrison, light tank maneuvers, physical and recreational activities.

#### **4.2.5 Real Estate Records**

Property transfer information presented in the CERFA report and information from the Real Properties office on training areas and ranges was reviewed. Property transfer information is detailed on the USACE *Real Estate, Fort Ord* map dated November 1981. This map details the acquisition and disposition of property after July 1, 1940. The Real Property construction records for the ranges and training areas, present a brief description of the facility (e.g. size, number of targets and firing points present) and whether construction was permanent or temporary. The records did not generally describe activities that occurred within the training areas and therefore were of limited use in the literature review.

#### **4.2.6 Newspaper Articles**

Historical newspaper articles from the *Salinas Daily Index* and the Fort Ord Panorama were reviewed at the Monterey County Library and the Presidio of Monterey Historians Office, respectively.

#### **4.2.7 Presidio of Monterey Historian's Office**

The Presidio of Monterey Historian's Office was visited to determine the availability of files related to training activities at Fort Ord and to obtain information. Information was obtained on historical film footage and training activities conducted at Fort Ord involving troops stationed at the Presidio of Monterey.

#### **4.2.8 Summary of BLM Records**

Unexploded Ordnance Potential Incident records from the BLM Fort Ord project office were reviewed to identify areas within BLM land where potential OE items have been discovered. BLM personnel prepare an incident form if a potential OE item is discovered on BLM land. These records are then forwarded to an onsite USACE UXO Safety Specialist, the

ordnance removal contractor, and the Federal Police for investigation and removal of the item for proper disposal. Fifteen incidents have occurred since 1997. Table 5 lists the items found, date of the incident, and OE-site if applicable.

#### **4.2.9 Summary of USA Environmental Inc., Incident Reports**

Unexploded Ordnance Incident reports prepared by USA Environmental Inc., the current ordnance removal contractor, were reviewed to identify locations where the contractor responded to unexploded ordnance incidents. The reports date from May 1996 through July 1999. These records document responses to incidents that occurred during landfill construction activities in 1996, Removal Actions at IRP Site 16 (Pete's Pond), BLM discoveries, and 2 responses to ordnance finds near the Fitch Park Housing Area reported by the Federal Police. Table 5 lists the items found date of the incident and OE-site if applicable.

#### **4.3 Interviews**

Telephone and personnel interviews were conducted with persons listed in Section 6.0. Persons interviewed included retired and active military personnel, active Corps of Engineers employees, persons present as active servicemen at Fort Ord from the 1930s through base closure in 1994, and current ordnance removal contractors. Interview records from other investigations including the ASR, the Phase 1 EE/CA, the Enhanced Preliminary Assessment of Monterey Bay, and Volume I of the Literature Review and Base Inventory Report were also reviewed. Additional interviews will be conducted if persons with possible information related to historical OE use at Fort Ord are identified.

## 5.0 RESULTS OF LITERATURE REVIEW

### 5.1 Previously Identified OE Sites

All currently known or suspected OE sites are shown on Plate 3. The OE sites were identified through the archive search process and documented in the ASRs (*USAEDH, 1993, 1994, 1997*). These sites comprise previously documented areas of known or suspected ordnance use and have or are currently undergoing additional investigation. Additional investigation includes site walks and sampling and if warranted would include an ordnance removal action. A description, including the history and type of ordnance related items known to have been used at the known or suspected OE sites, is included in the ASR (*ASR, 1997*; Appendix A). Table 1 includes the site name, the source from which information was used to identify each of the sites, the deepest penetrating ordnance item found at the site, and the current investigation status of the known or suspected OE sites. Each of these previously identified areas of ordnance use, including the history of the site and methods of ordnance clearance and removal, will be discussed and evaluated in the OE RI/FS.

### 5.2 Additional Areas Identified

#### 5.2.1 Training Facilities

The following sections describe areas that may have been used for weapons training and practice and that are identified on training facilities maps. Available information indicates that these locations were instructional areas only and did not include the use of OE. Several live fire small arms ranges (50-caliber ball ammunition or smaller) which lie outside of the MRA and OE Site 22 (Beach Ranges) were identified during this investigation. Small arms ranges which occur outside of OE Site 22, are currently being investigated (site

reconnaissance, mapping and sampling) under the Site 39 Small-Arms Investigation. Ranges used strictly for the purpose of small arms training are not considered OE sites and are not discussed in this document.

#### 5.2.1.1 Machine Gun Squares

Nine machine gun square locations were identified on training maps dating from approximately 1954 through 1961. Some of the machine gun squares can also be identified on the 1951 photographs and on 1960 and 1965 aerial mosaics. The former locations of the nine machine gun squares are shown on Plate 8. The machine gun squares were used for the practice of setting up and aiming weapons or dry fire training (*USAEDH, 1993*). No evidence has been found that would support the use of live ammunition at the machine gun squares. This conclusion is supported by the fact that the machine gun squares were located within developed areas of Fort Ord (east side of Highway 1) adjacent to main roads, barracks, and other military housing (Plate 9). Additionally, no range fans are shown on the training maps associated with the machine gun squares as are seen at known live fire locations.

#### 5.2.1.2 Mortar Squares

Eight mortar square locations were identified on training maps dating from approximately 1954 through 1972. Four of the mortar squares can also be identified on the 1960 aerial mosaic. The former locations of the eight mortar squares are shown on Plate 8. Mortar squares were used for the practice of setting up and aiming of weapons or dry fire training (*USAEDH, 1993*). No evidence has been found that would support the use of live ordnance at the mortar squares. Like the machine gun squares, the mortar squares were located within the developed portions of Fort Ord near housing and actively used roads (Plate 9). No range fans are shown associated with the mortar squares as is the case

with the areas where live fire occurred. Four of the eight mortar squares (three previously located in the Patton Park Housing area and one within the Main Garrison) were located within an area designated as a “Well Area, No Artillery Firing or Demolitions” as shown on the 1945 Fort Ord Training Facilities map (Army, 1945).

### 5.2.1.3 Ranging Area

The Ranging Area is identified on the 1956 Fort Ord Training Areas and Facilities map. The former Ranging Area location is shown on Plate 8. The 1956 map also indicates that at that time the area was assigned to the 759<sup>th</sup> Tank Battalion. The Ranging Area is not shown on the 1957 Training Area map or any of the available training maps dated after 1956. The 1957 and 1958 maps indicate that the area previously identified as the Ranging Area is designated as the Basic Driving Area & Field Commo Crewmans Course (FCCC). The location of the Ranging Area is adjacent to and partially overlaps OE Site 34 (Fritzsche Army Airfield). OE Site 34 was identified in the ASR as a 2.36-inch rocket practice range. The 2.36-inch rocket practice range is indicated on training facilities maps from the 1940s (listed as “practice bazooka & rifle grenade”); however, available maps dated from the 1950s to the present do not show the rocket range. An interview with military personnel indicated that the Ranging Area was used for either sighting gun tubes or double checking range finders, neither of which would involve weapons firing (*Brown, 1999; Curtis, 1999*). The military personnel explained that tanks are a direct fire weapon that when using live fire would typically fire at targets with a hillside downrange. The Fritzsche Army Airfield area is flat and surrounded by residential areas and farm land.

### 5.2.1.4 Rifle Instruction Circle (RIC) Training Areas

Approximately 11 rifle instruction circle (RIC) training areas were identified on training maps and aerial photos dating from 1949 through

1961. The former locations of the 11 RIC locations are shown on Plate 8. The RIC training areas were used in the practice of aiming/sighting of rifles. No evidence has been found that would support the use of live ammunition at these training areas. This conclusion is supported by the fact that the RIC training areas were located within developed areas of Fort Ord (mainly on the east side of Highway 1) adjacent to main roads, barracks, and other military housing (Plate 9).

Additionally, no range fans such as are seen at known live rifle firing ranges are shown on the training maps associated with the RIC training areas.

### 5.2.1.5 Proficiency Test Areas

Two Proficiency Test Areas were identified during the records search. The first Proficiency Test Area was described and sketched in a Fort Ord memorandum dated August 9, 1956. The location is not identified on any of the available training facilities maps. The memorandum states that this area “is off limits to all track laying or wheel vehicles.” The memorandum describes the southern half of the test area as encompassing testing stations and the northern half encompassing projected panel sites for machine gun manipulation problems. Discussions with Fort Ord Range Control indicated that this area was for dry fire training and possible firing of blank rounds (*HLA, 1994*).

Proficiency Test Area 2 was identified on a circa 1954 training facilities map. An interview with a former range control officer indicated that the proficiency test areas were used to test a soldiers proficiency in the breaking down and setting up of weapons. According to the former range control officer, the proficiency test areas were not used for live fire exercises. Proficiency Test Area 2 lies within an area identified on a 1945 Training Facilities map as a “Well Area, No Artillery Firing Or Demolitions” (*Army, 1945*). The locations of the proficiency test areas are shown on Plate 8.

### 5.2.1.6 1000-inch Mortar Range

The 1000-inch Mortar Range was identified on the 1961 Training Facilities map. No range fan is shown associated with this training area as is shown at live-fire training areas. The 1000-inch Mortar Range training area was used for direct fire training by gun crew or indirect fire using a forward observer to adjust fire (*Youngblood, 1999*). Live mortars were not used in this training activity. Inert mortar projectiles were fired using a pneumatic device and the projectiles were retrieved to be used over again. The 1964 Field Training Areas & Range Map (the next available Fort Ord training facility map) shows the 1000-inch Mortar Range relocated within OE Site 37 (Plate 3) and replaced by a nearby mortar square (Plate 8).

### 5.2.1.7 Recoilless Rifle Training Areas

Three recoilless rifle training areas (RRTAs) are identified on the training maps from circa 1954, 1956, 1957, 1958, and 1961. According to a former Range Control Officer the three training areas were not used for live fire training (*Stickler, 1999*). One of the former RRTA locations is OE Site 20 (Plate 3). OE Site 20 is described in the ASR and has been evaluated under the OE removal program. No OE was found in the sampling of OE Site 20 (*USACE, 1997a*). Of the two remaining recoilless rifle training areas, one lies within the footprint of OE Site 16 and the other lies between OE Site 4A and OE Site 53 (Plate 10). OE Site 16, which includes the area designated as a RRTA, will undergo OE sampling in the future.

### 5.2.1.8 OE Sweep Areas

Former Range Control files contain a staff directive (dated December 17, 1976) to the assistant Chief of Staff of the 7<sup>th</sup> Infantry Division, Fort Ord, “to develop an SOP for the sweep and clearing of open areas near housing areas to insure any dud ammunition that may be present be properly disposed of.” Attached to the directive is a map indicating the area to be

cleared (which included portions of two training areas) and a draft letter that discusses the date by which the clearance sweep should be completed, as well as notes that coordination should be made between the 49<sup>th</sup> ordnance detachment and the sweeping unit. According to training facilities maps, Training Areas A and I were located immediately adjacent to the Patton Park and Marshall/Fitch Park housing areas, respectively. Training Area A was first indicated on the 1976 Training Facilities Plan. Prior to this date the area was referred to as Training Area D or not formally designated as a training area. No specific training activity locations are shown within the area that makes up Training Area A on any available historical maps dated after 1958. From approximately 1954 through 1958, a portion of Training Area A included OE Site 13A (Practice Mortar Range; Plate 3). A portion of OE Site 13A is located within that portion of Training Area A identified for the clearance sweep. The 1945 Training Facilities map identified an area designated as a “wire entanglement area” adjacent to Area A within what is now the Patton Park Housing Area. Housing was constructed within former Training Area A from 1978 through 1982 (Abrams Park) and continued in 1987 through 1990 with the construction of Preston Park. No ordnance related items were found during the construction of the Abrams Park and Preston Park housing areas (Verett, 1999).

Training Area I was first indicated on the 1964 training facilities map. Prior to this date the area was not formally designated as a training area. Several training sites are indicated on the training facilities maps within the portion of Training Area I identified for the clearance sweep. These include a map reading area (orienteering area); bivouac areas E & F; the Field Fort Training Area; a mortar square; a machine gun square; several physical training areas; and a rifle instruction circle. Several known or suspected OE sites also occur within the area identified for the clearance sweep. These include OE Site 24A (Practice Rifle Grenade), OE Site 44 (MPC Habitat Preserve),

OE Site 44 (EDC), and portions of OE Site 4A (CBR Training Area), OE Site 40 (Parker Flats Gas House), OE Site 49 (Former Rifle Grenade Range), and OE Site 50 (Artillery Hill). To date no record of the results of the OE sweep have been located. The 49<sup>th</sup> ordnance detachment no longer exists and has been replaced by the 87<sup>th</sup> ordnance detachment out of Moffett Field, California. No records of the 49<sup>th</sup> ordnance detachment are on file with the 87<sup>th</sup> ordnance detachment. The 49<sup>th</sup> ordnance detachment was under the command of the 3<sup>rd</sup> Ordnance Battalion out of Fort Lewis, Washington. The 3<sup>rd</sup> Ordnance Battalion also does not have any records pertaining to the 49<sup>th</sup> ordnance detachment (*Hicks, 1999*). A representative from the 3<sup>rd</sup> Ordnance Battalion stated that the 49<sup>th</sup> explosive ordnance disposal (EOD) records have probably been destroyed. Contact with those present at Fort Ord during this time period indicated that the drafting of the SOP for the sweep was initiated by an incident where a youth detonated an ordnance item within the Fitch Park housing area (*Blackgrove, 1999; Conrad, 1999*). The youth reportedly found the ordnance item (M-79 grenade) within one of the nearby ranges (45 or 48) and carried it back to the Fitch Park housing area. According to the Range Control Officer at the time a sweep of the area was not performed (*Stickler, 1999*).

### 5.2.1.9 Close Combat Course

The Close Combat Course is shown on the 1945 and 1946 Training Facilities maps. The approximate former location of the Close Combat Course is shown on Plate 8. The Close Combat Course is not identified on the available training maps from the 1950s to the present. This area was used to train soldiers in field combat tactics. Small arms blank rounds were typically used in these training areas (*Youngblood, 1999*).

### 5.2.1.10 Artillery Firing Points

Four artillery firing points located outside the MRA were identified from former range control files and training facilities drawings. The

coordinates of the firing point locations (Plate 8) were included in the Range Control files. Range control records and interviews indicate the firing points were used by artillery divisions utilizing 105mm Howitzers and were fired at targets within the MRA. According to interviews with range control personnel conducted in 1994, these areas experienced light use from about 1978 through 1982 (*HLA, 1994*); However, the firing points continued to be listed on range control documents dated 1984, 1987 and 1992. Each of the four firing points are located within one of the known or suspected OE sites. Portions of the range fans associated with each of the firing points extend outside of known or suspected OE sites. According to the SOPs for Fort Ord artillery firing points all duds and misfires were to be reported to Range Control upon completion of firing and recorded on the range checklist (*Army, 1991*). The SOP also stated that Range Control was responsible for arranging with EOD for the removal of duds. A dud is defined as an “explosives munition which has not exploded as intended, or which has failed to explode after being armed.” (*Army, 1991*). According to the former Range Control Officer present during the periods of firing point use, all rounds fired from the firing points landed in the target area within the multi-range area (*Stickler, 1999*).

### 5.2.1.11 MST & RRST

The definition of these acronyms and the exact use of this area are unknown. The MST and RRST training area location was identified on the 1958 Training Areas And Facilities map. The approximate location of the training area is shown on Plate 8. Activities in this area may have been related to recoilless rifle training. Based on the physical location of this training area it would not have been utilized for the purpose of live fire exercises (*Stickler, 1999*). The former training area lies within an area that is currently developed (Schoonover housing area). No ordnance related items were found during the construction of the Schoonover housing area (*Verett, 1999*). No range fan is shown on the 1958 map associated with this

training area as is shown associated with known live fire training areas. The Army investigated this area in 1994 for the potential presence of OE due to its proximity to previously identified training areas to the south (Plate 4). Ten OE sample grids were established and sampled by the ordnance removal contractor. No evidence of OE, including OE-related scrap, was found (*HFAI, 1994*). Additionally, a site walk by a USACE UXO Safety Specialist of a suspect OE area immediately to the east of the MST & RRST location did not identify the presence of high explosive projectile fragmentation, fuzes or expended projectiles (*ASR, 1997*).

### **5.2.1.12 75mm Pack Howitzer Firing Area**

The identification of this area is based on the results of an interview with a retired Fort Ord military engineer (*HLA, 1994*). The engineer stated that he had heard that this area was used in the early 1900s by cavalry stationed at the Presidio of Monterey. Firing points were reportedly established in this area and firing was into the inland range area (Plate 8). The boundary of this area is based on a general area that was circled during the interview. The boundary includes the location of two former OE sites (Sites 1 and 6; Plate 3). No evidence that would support the use of this area as a firing point was found during the Archive Search process or this investigation. Field investigations at OE Sites 1 and 6, which included site walks, a global positioning system (GPS) survey of the OE site boundaries and OE sampling, turned up no evidence of 75mm Howitzer use (*HFAI, 1994*). Additionally, although use of this land by the Army prior to purchase is possible, this portion of the former Fort Ord was not purchased by the Army until 1940.

### **5.2.2 Other Identified Suspect Training Areas**

The following sections describe areas that may have been used for weapons training and practice and that are identified on training

facilities maps. Available information indicates that these areas may have included the use of live ordnance.

#### **5.2.2.1 Tank Gunnery Range**

The Tank Gunnery Range was identified on the 1956, 1957, and 1958 training maps. The former location is shown on Plate 10. The range is located partially within OE Site 32C (Oil Well Road Training Area), with the range fan shown extending to the northwest beyond the Site 32C boundary. The ASR describes activities at OE 32C including use as a target area for shoulder-launched projectiles and rifle grenades. The history of OE Site 32C and methods of ordnance clearance and removal will be discussed and evaluated in the OE RI/FS. On the basis of information identified to date, the portion of the Tank Gunnery Range extending beyond the boundary of OE Site 32C may require further evaluation in the OE RI/FS.

#### **5.2.2.2 Combat Ranges 1, 2, and 3**

Combat Ranges 1, 2, and 3 were identified on the 1945 and 1946 Training Facilities maps. The former approximate location is shown on Plate 10. The combat ranges were not identified on the available training maps from the 1950s to the present. The combat ranges partially overlap several known or suspected OE sites. Those physical portions of the combat ranges lying within known or suspected OE sites will be investigated as part of the overall investigation of the site they fall within. The remainder of the combat ranges that fall outside boundaries of the known or suspected OE sites may require further evaluation in the OE RI/FS.

### **5.3 Incident Reports**

Records documenting ordnance encounters reported by BLM employees were reviewed. Reports filed by the ordnance removal contractor in response to private citizen, Corps contractor, and BLM encounters, were also reviewed. Additionally, EOD incident reports

were also reviewed. The reports contain information on the item found including the approximate location, the type and disposition of the item (if known) and how the item was disposed (Table 5). All ordnance finds, whether OE scrap or live, when reported, are documented. Every OE item reported, whether OE scrap or live, is responded to. Many of the items reported were found within or immediately adjacent to previously identified ordnance sites or training areas (Plate 12). With the exception of the items found at locations 4, 5, 16, 17, 19, 20, 21, 23, 27, 30, 32 and 33, all items were either inert practice, expended or otherwise non-hazardous (i.e., OE scrap). The status (UXO or OE scrap) of the items found at location 30 is unknown. Locations 19 and 23 lie within previously identified ordnance sites. An evaluation of the items listed on Table 5 and their impact to the property those items were found on, will be included in the applicable associated decision document.

#### **5.4 Areas Designated As Non OE Areas**

Based on the review of information sources found to date (including aerial photos, facilities training maps, range and training area files, interviews, Fort Ord specific documents, and other sources listed in the references), areas have been delineated for which no evidence of ordnance use has been found (Plate 11). The designation of these areas as non OE areas was based mainly on review of training facilities maps and aerial photographs, Range Control records (which included Fort Ord range regulation documentation) the presence or absence of physical features associated with live fire areas (e.g., range fans, disturbed vegetation), and interviews with former Fort Ord and military personnel. Other factors considered included:

- The physical location of the feature: Training areas that were identified within or adjacent to developed areas (e.g., barracks, housing, and roads) were evaluated with respect to the physical location of the

training area and the likelihood of OE use at these locations. Training areas surrounded by development would not allow for the safe firing of weapons.

- Development history: Portions of Fort Ord have been developed since the area was established for the purpose of military use, including the East Garrison and the Main Garrison. The development history of these areas would preclude the use of ordnance from these areas.
- Investigation of remedial investigation sites: During the RI/FS for chemical contamination, numerous investigations were conducted throughout Fort Ord including areas designated here as non OE. Many of the investigation techniques used were capable of detecting OE if it was present at these sites. The following techniques were used:
  - **Geophysical surveys** – Electromagnetic, magnetometer, and ground penetrating radar surveys were conducted to locate buried metallic debris, buried drums, and underground storage tanks.
  - **Trenching** – Trenching, using a backhoe, was conducted to investigate buried metal detected during the geophysical survey.
  - **Soil excavation** – Contaminated soil was excavated as part of the site remedial actions.

A list of the sites where these techniques were used for the RI/FS for chemical contamination is shown in Table 4. The site locations are shown on Plate 13.

OE specialists were present during many of the trenching and excavating operations to check for potential OE items. In addition, field personnel working on the RI/FS for chemical contamination completed an ordnance recognition class to enhance their

ability to recognize and report any OE encountered during the investigation. Some ordnance was encountered during the above-mentioned activities that occurred within previously identified or suspected OE sites; however, no OE was encountered during RI/FS investigations occurring outside the previously identified or suspect OE sites.

- Additionally, a recurring comment made in interviews by former Fort Ord Army personnel was that ordnance use was not allowed outside of designated firing ranges (*Blackgrove, Stickler, 1999*).

Plate 11 shows areas for which no evidence has been found to indicate ordnance use.

### 5.5 Small Arms Ranges

Small arms ranges are defined as any range used for the firing of weapons .50 caliber or smaller. Several small arms ranges were utilized throughout the history of Fort Ord and were located in three general locations, the Beach Ranges (OE Site 22), the MRA (OE Site 15) and the East Garrison. The former location of the small arms ranges, with the exception of those located within the MRA, are shown on Plate 14. Ranges within the MRA occasionally changed use over time or were multipurpose ranges and supported the use of large caliber weapons, as well as small arms. All ranges within the MRA were arranged around a central impact area. This configuration presents the possibility for OE from ranges utilizing larger caliber munitions to be present in the small arms ranges within the MRA. All small arms ranges within the MRA will be, or are currently being investigated for the presence of spent ammunition (i.e., lead) and OE. The lead investigation is being conducted as part of the Basewide RI/FS for chemical contamination (*HLA, 1995*).

Small arms ranges within OE Site 22 (Beach Ranges) were also investigated for the presence of lead as part of the Basewide RI/FS. Additionally, OE sampling was performed at OE

Site 22 to evaluate the potential presence of OE. The adequacy of the sampling effort at OE Site 22 will be evaluated in the OE RI/FS.

Several small arms ranges were also located at the East Garrison. The location of historic ranges in the East Garrison, as well as those ranges active at the time of base closure, are shown on Plate 14. Those ranges active at the time of base closure were investigated for the presence of lead as part of the IRP Site 39A investigation (Basewide RI/FS). Additional evaluation for the presence of lead at the historic ranges formerly present at the East Garrison is ongoing. The small arms investigation will include a site walk in the presence of a UXO safety specialist or an ordnance removal contractor. If information suggests that weapons of caliber larger than .50 were used the range will be investigated under the OE RI/FS.

As stated in Section 2.1.2, small arms are considered OE. According to the Ordnance and Explosives Center of Expertise (CX) Interim Guidance Document 99-02, "For the purpose of OE projects with small arms, the U.S. Army Engineering and Support Center, Huntsville, OE-CX, recognizes caliber .50 and smaller as small arms." The guidance document also states that small arms ammunition present a very low risk to the public (*CEHNC, 1999*). Because small arms present a low level of risk, the literature review will not consider the small arms ranges as suspect OE areas.

### 5.6 Areas Designated As Areas of Potential Concern

Also delineated on Plate 11 are those areas, which based on the results of the literature review, show the potential for the presence of OE. These areas include all the previously known or suspected OE sites as well as, newly identified suspect areas. The newly identified sites include firing ranges and firing points outside the MRA. In addition to the previously known or suspected sites and the newly



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Research for this report included interviews or contact with the following individuals:

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Sargent First Class Brown	U.S. Army Reserves Former Fort Ord, California
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Lee Stickler	U.S. Army (retired)
Thomas Gillis	U.S. Army (retired)
John Hemphill	U.S. Army (retired)
Peter Lash	U.S. Army (retired)
Donald Conrad	U.S. Army (retired)
Joe Blackgrove	U.S. Army (retired)
Jack Youngblood	U.S. Army (retired)
Jack Fenton	U.S. Army Fort Ord, 1954
Allen Fenton	U.S. Army Fort Ord, 1958
Jim Breitlow	U.S. Army Fort Ord, 1970
Donald Highsmith	U.S. Army Fort Ord, 1985-89
Charles Lemmons	Patton Museum Fort Knox, Kentucky
Nick Iaiennaro	U.S. Army Corp of Engineers Rock Island District

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Jay Verett	U.S. Army Corps of Engineers (retired)
Deanne Strauser	U.S. Army Corps of Engineers St. Louis District
Doug Ralston	USA Environmental, Inc. Project Manager
Gay Rearick	Presidio of Monterey Records Center

The following institutions or organizations were also contacted or visited:

National Archives and Records Administration  
Motion Picture, Sound, and Video Branch  
College Park, Maryland

National Image and Mapping Agency

Military History Institute  
Carlisle Barracks  
Carlisle, Pennsylvania

U.S. Army Corps of Engineers  
Office of History  
Alexandria, Virginia

Headquarters United States Army  
Training and Doctrine Command  
Fort Monroe, Virginia

Bureau of Land Management  
Fort Ord Project Office

Monterey County Library

Monterey County Historical Society

University of California at Santa Cruz

Stanford Special Collections Library

University of California at Berkeley  
Earth Sciences Library

Whittier College  
Fairchild Aerial Photography Collection

Pacific Aerial Surveys  
Oakland, California

Geography and Map Division Library of Congress  
Washington, D.C.

United States Department of the Interior  
Geological Survey EROS Data Center

Vintage Video  
Greencastle, Pennsylvania

Monterey County Water Resources Agency

Presidio of Monterey  
Military Police Administration

City of Marina Police Department

City of Seaside Police Department

Monterey County Sheriff Department

Caltrans, District 5

## **TABLES**

**Table 1. Site Status, Known or Suspected OE Sites  
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Site Number	Site Name	Source of OE Site Location <sup>a</sup>	Deepest Penetrating OE Item Found <sup>b</sup>	Site Status
OE-1	Flame Thrower Range	1957 and 1958 Fort Ord Training Areas and Facilities	No OE found <sup>1</sup>	Sampling complete; site will undergo additional evaluation in the OE RI/FS
OE-2	Pete's Pond	Interview	No OE found <sup>1</sup>	Sampling complete; site will undergo additional evaluation in the OE RI/FS
OE-3	Old Demolition Training Area, Range 49	Interview	81mm mortar <sup>b</sup>	Removal complete; site will undergo additional evaluation in the OE RI/FS
OE-4A	CBR Training Area	1957 and 1958 Fort Ord Training Areas and Facilities	Rifle grenade <sup>2</sup>	Removal complete; site will undergo additional evaluation in the OE RI/FS
OE-4B	CBR Training Area	1957 and 1958 Fort Ord Training Areas and Facilities	Surface OE <sup>2</sup>	Removal complete; site will undergo additional evaluation in the OE RI/FS
OE-4C	CBR Training Area within CSU Footprint	1957 and 1958 Fort Ord Training Areas and Facilities	See Site OE-31	OE Site has undergone removal action as part of Site OE-31; site will undergo additional evaluation in the OE RI/FS
OE-5	South of East Garrison	Based on the discovery of a rocket motor	No OE found <sup>1</sup>	Sampling complete; site will undergo additional evaluation in the OE RI/FS
OE-6	Booby Traps and Land Mines	1957 and 1958 Fort Ord Training Areas and Facilities	No OE found <sup>1</sup>	Sampling complete; site will undergo additional evaluation in the OE RI/FS
OE-7	Mine and Booby Trap Training Area within CSU Footprint	1957 and 1958 Fort Ord Training Areas and Facilities	See Site OE-31	OE Site has undergone removal action as part of Site OE-31; site will undergo additional evaluation in the OE RI/FS
OE-8	Mine and Booby Trap Training Area within CSU Footprint	1957 and 1958 Fort Ord Training Areas and Facilities	See Site OE-31	OE Site has undergone removal action as part of Site OE-31; site will undergo additional evaluation in the OE RI/FS
OE-9	MBA Training Area	1957 and 1958 Fort Ord Training Areas and Facilities	60 mm mortar <sup>b</sup>	More sampling to be performed
OE-10A	Leary Hill Region	Location noted on several historical maps	81mm mortar <sup>b</sup>	Removal in progress
OE-10B	Elliot Hill Region	Location noted on several historical maps	Stokes mortar <sup>b</sup>	Removal in progress
OE-11	Demolition Training Area	Interview and 1957 Fort Ord Training Areas and Facilities	Surface OE <sup>b</sup>	Removal in progress
OE-12	Picnic Canyon	Unspecified Reports	40mm AA <sup>b</sup>	Removal complete; site will undergo additional evaluation in the OE RI/FS
OE-13A	Practice Mortar Range	1957 and 1958 Fort Ord Training Areas and Facilities	No OE found <sup>b</sup>	Sampling complete; site will undergo additional evaluation in the OE RI/FS
OE-13B	Practice Mortar Range	1957 and 1958 Fort Ord Training Areas and Facilities	3.5-inch rocket <sup>b</sup>	Removal complete; site will undergo additional evaluation in the OE RI/FS

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OE-13C	CSU-Footprint Wedge	1957 and 1958 Fort Ord Training Areas and Facilities	See Site OE-31	Removal complete; site will undergo additional evaluation in the OE RI/FS
OE-14A	Lookout Ridge 2	1956 and 1957 Fort Ord Training Areas and Facilities	Rifle grenade <sup>3,4</sup>	Removal complete; site will undergo additional evaluation in the OE RI/FS
OE-14B	Pilarcitos Canyon	1956 and 1957 Fort Ord Training Areas and Facilities	No OE Found <sup>3</sup>	Sampling complete; removal to be performed
OE-14C	Site 14SE	1956 and 1957 Fort Ord Training Areas and Facilities	Rifle grenade <sup>b</sup>	Removal complete; site will undergo additional evaluation in the OE RI/FS
OE-14D	Site 14 West	1956 and 1957 Fort Ord Training Areas and Facilities	22mm sub-caliber projectile <sup>b</sup>	Removal complete; site will undergo additional evaluation in the OE RI/FS. Additional removal to be performed.
OE-14E	Site 14 East	1956 and 1957 Fort Ord Training Areas and Facilities	22mm sub-caliber projectile <sup>4</sup>	Sampling complete; removal to be performed
OE-15DRO.1	Del Rey Oaks, E29a	Boundary based on property transfer	Stokes mortar <sup>b</sup>	Sampling complete; 4-foot removal completed within fire break (eastern margin of site)
OE-15DRO.2	Del Rey Oaks, E29b.1	Boundary based on property transfer	No OE found <sup>b</sup>	Sampling completed at part of the site, 4-foot removal completed within fire break (eastern margin of site)
OE-15SEA.1	Seaside 1, E24	Boundary based on property transfer	75mm shrapnel projectile <sup>b</sup>	Sampling completed at part of the site, 4-foot removal completed within fire break (eastern margin of site)
OE-15SEA.2	Seaside 2, E34	Boundary based on property transfer	Stokes mortar <sup>b</sup>	Sampling completed at part of the site, 4-foot removal completed within fire break (eastern margin of site)
OE-15SEA.3	Seaside 3, E23.1	Boundary based on property transfer	Rifle grenade <sup>b</sup>	Sampling completed at part of the site, 4-foot removal completed within fire break (eastern margin of site)
OE-15SEA.4	Seaside 4, E23.2	Boundary based on property transfer	57mm projectile <sup>b</sup>	Sampling completed at part of the site, 4-foot removal completed within fire break (eastern margin of site)
OE-15 MOCO.1	Monterey County 1, E29b.2	Boundary based on property transfer	Unknown	No sampling or removal completed
OE-15 MOCO.2	Monterey County 2, E21b.3	Boundary based on property transfer	66mm LAW rocket <sup>b</sup>	4-foot removal completed within fire break only (eastern margin of site)
OE-15 BLM	BLM	Identified on several historical maps	Unknown	No sampling or removal completed
OE-16	2.36-inch Rocket Moving Target Range	Interview	2.36-inch rocket <sup>a</sup>	No sampling or removal completed
OE-17	Anti-Tank Practice Mine Area	Interviews	No OE found <sup>1</sup>	Sampling complete; site will undergo additional evaluation in the OE RI/FS

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Site Number	Site Name	Source of OE Site Location <sup>a</sup>	Deepest Penetrating OE Item Found <sup>b</sup>	Site Status
OE-18	100-pound Bomb; within CSU footprint	1984 training facilities map	See Site OE-31	OE Site has undergone removal action as part of Site OE-31; site will undergo additional evaluation in the OE RI/FS
OE-19	Rifle Grenade Range	Not specified	Surface OE <sup>b</sup>	Sampling complete; site will undergo additional evaluation in the OE RI/FS
OE-20	Recoilless Rifle Training Range	1957 Fort Ord Training Areas and Facilities	No OE found <sup>1</sup>	Sampling complete; site will undergo additional evaluation in the OE RI/FS
OE-21	Mudhen Lake	Possible dumping ground (ASR)	Surface OE <sup>b</sup>	Removal complete; site will undergo additional evaluation in the OE RI/FS
OE-22	Beach Ranges/Trainfire Ranges	Identified on several historical maps	No OE found <sup>b</sup>	Sampling complete; site will undergo additional evaluation in the OE RI/FS
OE-23	Demolition Area	1957 Fort Ord Training Areas and Facilities and interview	Surface OE <sup>b</sup>	Removal complete; site will undergo additional evaluation in the OE RI/FS
OE-24A	Practice Rifle GR	1946 Fort Ord Master Plan	Surface OE <sup>2</sup>	Sampling complete; site will undergo additional evaluation in the OE RI/FS
OE-24B	Practice HGR	1946 Fort Ord Master Plan	No OE found <sup>b</sup>	Sampling complete; site will undergo additional evaluation in the OE RI/FS
OE-24C	Live HGR	1946 Fort Ord Master Plan	No OE found <sup>b</sup>	Sampling complete; site will undergo additional evaluation in the OE RI/FS
OE-24D	Booby Traps	1946 Fort Ord Master Plan	No OE found <sup>b</sup>	Sampling complete; site will undergo additional evaluation in the OE RI/FS
OE-24E	Practice RGR	1946 Fort Ord Master Plan	No OE found <sup>b</sup>	Sampling complete; site will undergo additional evaluation in the OE RI/FS
OE-25	Firing Point; within 14D Footprint (Range P-5)	Not Specified	See Site OE-14D	Removal complete; site will undergo additional evaluation in the OE RI/FS
OE-26	Hilltop within 14D Footprint (Range P-5)	Not Specified	See Site OE-14D	Removal complete; site will undergo additional evaluation in the OE RI/FS
OE-27A	Training Site 1	1984 training facilities map	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS
OE-27B	Training Site 2	1984 training facilities map	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS
OE-27C	Training Site 3	1984 training facilities map	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS
OE-27D	Training Site 4	1984 training facilities map	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS
OE-27E	Training Site 5	1984 training facilities map	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS

**Table 1. Site Status, Known or Suspected OE Sites  
Draft Final Literature Review Report  
Former Fort Ord, California**

Site Number	Site Name	Source of OE Site Location <sup>a</sup>	Deepest Penetrating OE Item Found <sup>b</sup>	Site Status
OE-27F	Training Site 6	1984 training facilities map	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS
OE-27G	Training Site 7	1984 training facilities map	37 mm projectile <sup>b</sup>	Portion sampled and awaiting vegetation clearance as part of OE-53 BLM
OE-27H	Training Site 8	1984 training facilities map	2.36-inch rocket <sup>a</sup>	No sampling completed
OE-27I	Training Site 9	1984 training facilities map	Surface OE <sup>b</sup>	OE Site has undergone removal action as part of Site OE-10A; additional evaluation in the OE RI/FS
OE-27J	Training Site 10	1984 training facilities map	Surface OE <sup>b</sup>	Portion undergoing removal as part of OE-10A Southern
OE-27K	Training Site 11	1984 training facilities map	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS
OE-27L	Training Site 12	1984 training facilities map	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS
OE-27M	Training Site 13	1984 training facilities map	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS
OE-27N	Training Site 14	1984 training facilities map	Surface OE <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS
OE-27O	Training Site 15	1984 training facilities map	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS
OE-27P	Training Site 16	1984 training facilities map	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS
OE-27Q	Training Site 17	1984 training facilities map	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS
OE-27R	Training Site 18	1984 training facilities map	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS
OE-27S	Training Site 19	1984 training facilities map	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS
OE-27T	Training Site 20	1984 training facilities map	No OE found <sup>4</sup>	Some sampling completed as part of OE-14E
OE-27U	Training Site 21	1984 training facilities map	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS

**Table 1. Site Status, Known or Suspected OE Sites  
Draft Final Literature Review Report  
Former Fort Ord, California**

Site Number	Site Name	Source of OE Site Location <sup>a</sup>	Deepest Penetrating OE Item Found <sup>b</sup>	Site Status
OE-27V	Training Site 22	1984 training facilities map	No OE found <sup>3,4</sup>	Some sampling completed as part of OE-14B and OE-14E
OE-27W	Training Site 23	1984 training facilities map	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS
OE-27X	Training Site 24	1984 training facilities map	No OE found <sup>3</sup>	Sampling complete; site will undergo additional evaluation in the OE RI/FS
OE-27Y	Training Site 25	1984 training facilities map	No OE found <sup>3</sup>	Sampling complete; site will undergo additional evaluation in the OE RI/FS
OE-28	MOUT Site	Interview	81mm mortar <sup>b</sup>	Sampling complete; site will undergo additional evaluation in the OE RI/FS
OE-29	Laguna Seca Bus Turn around	Boundary based on parcel transfer	Rifle grenade <sup>3</sup>	Removal complete; site will undergo additional evaluation in the OE RI/FS
OE-30	Laguna Seca Turn 11	Lies within MRA (ASR)	75mm HE projectile <sup>3</sup>	Removal complete; site will undergo additional evaluation in the OE RI/FS
OE-31	CSU Footprint	Boundary based on parcel transfer	Rifle grenade <sup>3</sup>	Removal complete; site will undergo additional evaluation in the OE RI/FS
OE-32A	Oil Well Road I	1957 Fort Ord Training Areas and Facilities and interview	No OE found <sup>3</sup>	Sampling complete; site will undergo additional evaluation in the OE RI/FS
OE-32B	Oil Well Road II	1957 Fort Ord Training Areas and Facilities and interview	No OE found <sup>3</sup>	Sampling complete; site will undergo additional evaluation in the OE RI/FS
OE-32C	Oil Well Road III	1957 Fort Ord Training Areas and Facilities and interview	81mm illuminating flare <sup>2</sup>	Removal complete; site will undergo additional evaluation in the OE RI/FS
OE-33	OE Cache	Federal police	Not applicable <sup>7</sup>	Removal complete; site will undergo additional evaluation in the OE RI/FS
OE-34	Fritzsche Army Airfield	1942 Fort Ord Master Plan	2.36-inch rocket <sup>3</sup>	Removal complete; Army is initiating additional site evaluation
OE-35	Former Range Control	Within the MRA (ASR)	Surface OE <sup>3</sup>	Removal complete; site will undergo additional evaluation in the OE RI/FS
OE-36 <sup>c</sup>				
OE-37	Parker Flats Practice Mortar Range	Undated fire department map; 1964 Field Training Areas & Range Map	75mm HE frag <sup>b</sup>	Removal complete; site will undergo additional evaluation in the OE RI/FS
OE-38 <sup>d</sup>				
OE-39	Mine and Booby Trap Training Area	1957 and 1958 Fort Ord Training Areas and Facilities	No OE found <sup>a</sup>	Sampling complete; site will undergo additional evaluation in the OE RI/FS
OE-40	Parker Flats Gas House	Unspecified historical maps and the Enhanced Preliminary Assessment	81mm mortar <sup>b</sup>	Removal complete; site will undergo additional evaluation in the OE RI/FS
OE-41	Powder Magazine	1945 Training Facilities	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS

**Table 1. Site Status, Known or Suspected OE Sites  
Draft Final Literature Review Report  
Former Fort Ord, California**

Site Number	Site Name	Source of OE Site Location <sup>a</sup>	Deepest Penetrating OE Item Found <sup>b</sup>	Site Status
OE-42	Demolition Area - Rifle Grenade Area	1946 Fort Ord Master Plan	37mm rifle grenade <sup>b</sup>	Removal in progress
OE-43	South Boundary Area	Interview	37mm spotter <sup>b</sup>	Sampling complete; site will undergo additional evaluation in the OE RI/FS
OE-44 (PBC)	MPC Habitat Preserve	Site walk	37mm frag <sup>b</sup>	Sampling complete; Site will undergo additional evaluation in the OE RI/FS
OE-44	EDC	Site walk	105mm HE frag <sup>b</sup>	Sampling in progress
OE-45	Tactical Training Area - TTA	Not specified	Surface OE <sup>b</sup>	Additional sampling to be performed
OE-46	York School	Parcel transfer	2.36-inch rocket <sup>b</sup>	Sampling in progress
OE-47	Wolf Hill	Parcel transfer	75mm HE projectile <sup>4</sup>	Removal complete; site will undergo additional evaluation in the OE RI/FS
OE-48	Unnamed	1946 Fort Ord Master Plan	4.2-inch frag <sup>b</sup>	Sampling complete; site will undergo additional evaluation in the OE RI/FS
OE-49	Former Rifle Grenade Range	Interview	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS
OE-50	Artillery Hill	Interview	75mm shrapnel projectile <sup>b</sup>	Removal in progress
OE-51 <sup>d</sup>				
OE-52	Rifle Grenade and Projectile Target Area	Interview	Stokes mortar <sup>b</sup>	Removal at OE-53 expanding into OE-52
OE-53 (EDC)	Shoulder-Launched Projectile Area	Not specified	75mm HE projectile <sup>b</sup>	Removal in progress
OE-53 (BLM)	Shoulder-Launched Projectile Area	Not specified	37mm projectile <sup>b</sup>	Sampling complete, awaiting vegetation clearance
OE-54 (EDC)	Canyon Target Area	Interview	No OE found <sup>b</sup>	Removal in progress
OE-54 (BLM)	Canyon Target Area	Interview	Unknown	Awaiting vegetation clearance
OE-55	Parker Flats	Interview	Rifle grenade <sup>b</sup>	Removal in progress
OE-56	Hayrake Area	Interview	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS
OE-57	Unnamed, coordinates only	Interview	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS
OE-58	Unnamed, coordinates only	Interview	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS
OE-59	Unnamed	Interview	Surface OE <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS
OE-60	Unnamed, coordinates only	Interview	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS

**Table 1. Site Status, Known or Suspected OE Sites  
Draft Final Literature Review Report  
Former Fort Ord, California**

Site Number	Site Name	Source of OE Site Location <sup>a</sup>	Deepest Penetrating OE Item Found <sup>b</sup>	Site Status
OE-61	Grenade Range	Interview	Surface OE <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS
OE-62	Laguna Seca Open Spaces	Interview	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS
OE-63	Canyon Training Area	Interview	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS
OE-64	Unnamed	Interviews	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS
OE-65	Unnamed	Interview	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS
OE-66	Signal Corps Small Arms	Interview	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS
OE-67	Unnamed	Interview	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS
OE-68	Unnamed	Interview	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS
OE-69	Unnamed	Interview	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS
OE-70	Unnamed	Interview	No OE found <sup>5</sup>	Site walk with RAC <sup>6</sup> evaluation; site will undergo additional evaluation in the OE RI/FS

<sup>a</sup> Revised Archives Search Report (USAEDH, 1997)

<sup>b</sup> Sampling or Removal Action through 10/99

<sup>c</sup> This site number has not been used

<sup>d</sup> OE-38 and OE-51 were created in error due to the mislocation of OE-9 and OE-52, respectively (teleconference with USACE St. Louis 3/18/99)

<sup>1</sup> Final Phase 1 EE/CA

<sup>2</sup> USA Environmental Inc., After Action Report; Surface OE are non-penetrating items (e.g., flares, smoke grenades, fuzes)

<sup>3</sup> UXB International Inc., After Action Report

<sup>4</sup> CMS Environmental Inc. (now USA Environmental Inc.), After Action Report

<sup>5</sup> Based on site walk

<sup>6</sup> Risk Assessment Code (RAC) evaluation. Risk assigned based on results of a site walk

<sup>7</sup> OE items were found in a burial pit

**Table 2. List of Maps Reviewed  
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<b>Map Title</b>	<b>Date</b>	<b>Reference</b>
Topographic Map, Monterey and Salinas Quadrangles	1913	USGS
Map of the David Jacks Corporations, Proposed Acreage Subdivisions	June 1914	H.F. Cozzens
Assessor's Plat, Monterey City Lands Tract No. 1, Map No.2	1922	Monterey County
Topographic Map, Camp Ord and Vicinity	1933-1934	U.S. Army
Topographic Map, Camp Ord and Vicinity	1938	U. S. Army
Corps of Engineers, U.S. Army Tactical Map	1939-40	USGS
Fort Ord: Map Locator	1940	Unknown
Camp Ord, Showing Ultimate Layout of Concurrent Training Camps	6/20/40	U.S. Army, Presidio of Monterey
Fort Ord. East Garrison Topography and Temporary Housing Layout	11/28/41	Office of Constructing Quartermaster
Fort Ord Military Reservation	1943	U. S. Army, Corps of Engineers
East Garrison Layout of Building and Roads	1/28/42	U. S. Army
Training Facilities, Fort Ord and Vicinity, Calif.	Aug 45	U. S. Army
Topographic Map, Fort Ord Military Reservation	1944	Army Map Service
Fire-Hydrants, Fire-Telephones, Main Garrison	7/3/44	Post Engineer Office, Fort Ord
Main Garrison Cantonment Land Use Map, 53-1-9, 2a	3/20/46	Post Engineer
General Site Plan and Building Use, Main Garrison, 53-1-9, 2b	3/20/46	Post Engineer
General Road Map, Main Garrison, 53-1-9, 2c	3/20/46	Post Engineer
General Tree Cover Map, 53-1-9, 2e	4/5/46	Post Engineer
General Organized Recreational Area, Main Garrison, 53-1-9, 2d	4/5/46	Post Engineer
Ord Village General Road Map, 53-1-9, 4a	3/20/46	Post Engineer
East Garrison Cantoment 1 and Use Map, 53-1-9, 3	4/5/46	Post Engineer
Reservation Boundary & Land Use Map, 53-1-9, 2	4/5/46	U. S. Army
Real Estate, Fort Ord (Military Reservation); Segments "1A -1D"	4/24/46	Department of the Army
Topographic Map, Seaside 7.5' Quadrangle	1947	Army Map Service
Topographic Map, Salinas 15' Quadrangle	1947	Army Map Service
Topographic Map, Fort Ord Military Reservation	1948	U. S. Army Corps of Engineers
Training Areas That Cannot Be Used At Same Time	Circa 1954	Unknown

**Table 2. List of Maps Reviewed  
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<b>Map Title</b>	<b>Date</b>	<b>Reference</b>
Main Garrison Layout	Feb 56	U. S. Army Corps of Engineers
Range Complex, Fort Ord (Construction Priority Map)	7/3/56	U. S. Army
Map of Fort Ord Training Areas and Facilities	12/20/56	U. S. Army
Map of Fort Ord Training Areas and Facilities	7/15/57	U. S. Army
Map of Fort Ord Training Areas and Facilities	1/10/58	U. S. Army
Firebreak Map, Fort Ord Fire Department	5/11/58	U. S. Army, Fire Department Scrapbook
Map of Fort Ord Training Areas and Facilities	9/29/58	U. S. Army
Basic Information, Ranges & Training Facilities, Master Plan	12/31/58	U.S. Army Corps of Engineers
Basic Information, Training Facilities	6/30/61	U. S. Army Corps of Engineers
Field Training Areas and Range Map, Fort Ord	4/27/64	U. S. Army
Back Country Roads, Field Training Area and Range Map	Jan 67	U. S. Army
Training Facilities Map	3/13/68	U. S. Army, Corps of Engineers
Topography (Inland Ranges) Sheets 1 through 4, 15-25-851	1969	U. S. Army, Corps of Engineers
Training Facilities Plan, Fort Ord	1/11/71	U. S. Army Corps of Engineers
Training Ranges and General Road Maps	3/16/72	U. S. Army, Corps of Engineers
Reservation Map, Basic Information	3/1/75	U. S. Army, Corps of Engineers
Training Facilities Plan, Future Development, Master Plan	12/1/76	U. S. Army, Corps of Engineers
Topography with Training Facility Notes	1976	U. S. Army
Reservation Plan, Fort Ord	6/1/77	U.S. Army, Corps of Engineers
Training Facilities Plan, Future Development Plans	6/1/77	U.S. Army, Corps of Engineers
Proposed Annexation of Fort Ord Military Reservation	Nov 83	U. S. Army

**Table 2. List of Maps Reviewed  
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<b>Map Title</b>	<b>Date</b>	<b>Reference</b>
Training Facilities Map, Basic Information Maps, Master Plan	Jun 84	U. S. Army, Corps of Engineers
Close In Training Areas & Selected Post Facilities	8/16/65	U.S. Army
Close In Training Areas & Selected Post Facilities	5/1/67	U. S. Army
Post Locator Map	1/15/69	U.S. Army
Fort Ord and Vicinity, Series V895S	1972	Defense Mapping Agency (DMA)
Field Training Area and Range Map	7/1/72	U.S. Army
Close In Training Areas & Selected Post Facilities	2/23/73	U.S. Army
Ranges and Training Area Overlay, Fort Ord and Vicinity	2/1/76	U.S. Army
Close In Training Areas	3/1/76	U.S. Army
Close In Training Areas & Selected Post Facilities	Sep 77	U.S. Army
Ranges and Training Area Overlay, Fort Ord and Vicinity	Jan 78	U.S. Army
Ranges and Training Area Overlay, Fort Ord and Vicinity	7/15/78	U.S. Army
Ranges and Training Area Overlay, Fort Ord and Vicinity	6/1/81	U.S. Army
Ranges and Training Area Overlay, Fort Ord and Vicinity	4/1/82	U.S. Army
Fort Ord and Vicinity Firing Points and Associated Range Fans, Firing Points 1 and 2	Circa 1984	Range Control
Fort Ord Military Installation Map, Series V795S	8/1/84	USGS, DMA
Fort Ord Training Facilities Map, Master Plan	Mar 80	U.S. Army Corps of Engineers
Notes on June 84 Training Map	Jun 84	U. S. Army, Corps of Engineers
Ranges and Training Area Overlay, Fort Ord and Vicinity	11/15/87	U. S. Army
Training Facilities, Master Plan	5/2/88	U. S. Army Corps of Engineers
Site Plan, Future Development Plans	May 89	U. S. Army Corps of Engineers
Aerial Mapping-GPS Control Network, Topographic Maps	9/8/94	U. S. Army
Highway 1 Construction Diagram	Unknown	Caltrans

**Table 3. Aerial Photograph Review  
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<b>Aerial Photograph Area</b>	<b>Date</b>	<b>Reference</b>	<b>Comments</b>
Photo Map, Southwestern Fort Ord, Western Impact Area, Sheet 74-27	1942	29TH Engineer Reproduction Plant, Portland OR	Shows western impact area, prepared from U. S. Army 1941 and 1942 aerial photographs and 1937 and 1939 Fairchild Aerial Surveys aerial photographs.
Photo Map, Southeastern Fort Ord, Eastern Impact Area, Sheet 74-28	1942	29TH Engineer Reproduction Plant, Portland OR	Shows southeastern Fort Ord. Prepared from U. S. Army 1941 and 1942 aerial photographs and 1937 and 1939 Fairchild Aerial Surveys aerial photographs.
Photo Map, Northwestern Fort Ord, Main Garrison, Sheet 73-27	1942	29TH Engineer Reproduction Plant, Portland OR	Shows northwest Fort Ord, Main Garrison Area. Prepared from U. S. Army 1941 and 1942 aerial photographs and 1937 and 1939 Fairchild Aerial Surveys aerial photographs.
Photo Map, Northeastern Fort Ord, East Garrison Area, Sheet 73-28	1942	29TH Engineer Reproduction Plant, Portland OR	Shows northeastern Fort Ord including East Garrison Area. Prepared from U. S. Army 1941 and 1942 aerial photographs and 1937 and 1939 Fairchild Aerial Surveys aerial photographs.
Photo Map, Southern Fort Ord	1943	U. S. Army, Corps of Engineers	Shows Inland Range area. Prepared from 1941 Fairchild Aerial Surveys photographs.
Photo Map, Northern Fort Ord	1943	U. S. Army, Corps of Engineers	Shows Main Garrison and Fritzsche Army Airfield Areas. Prepared from 1941 Fairchild Aerial Surveys photographs.
Aerial Photograph, East Garrison, Photo Number ABG-17F-87	8/17/49	U. S. Department of Agriculture, Soil Conservation Service	Shows East Garrison Area and area southeast of East Garrison. Ranges evident on photographs.
Aerial Photograph, Western Inland Ranges, Photo Number ABG-17F-195	8/17/49	U. S. Department of Agriculture, Soil Conservation Service	Shows Inland Range area. Ranges evident in photo. Training areas north of Inland Range area also evident.

**Table 3. Aerial Photograph Review  
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<b>Aerial Photograph Area</b>	<b>Date</b>	<b>Reference</b>	<b>Comments</b>
Aerial Photograph, Southwestern Inland Ranges, Photo Number ABG-17F-193	8/17/49	U. S. Department of Agriculture, Soil Conservation Service	Shows Inland Range area. Ranges are evident.
Aerial Photograph, Northeastern Inland Ranges, OE-10A and 10B areas, Photo Number ABG-17F-131	8/17/49	U. S. Department of Agriculture, Soil Conservation Service	Shows Inland Range area and area north of ranges.
Aerial Photograph, Southeastern Inland Ranges, Photo Number ABG-17F-133	8/17/49	U. S. Department of Agriculture, Soil Conservation Service	Shows Inland Range area and Laguna Seca area.
Aerial Photograph, Intergarrison Area, Photo Number ABG-17F-129	8/17/49	U. S. Department of Agriculture, Soil Conservation Service	Shows Intergarrison area.
Aerial Photograph set covering Main Garrison, East Garrison, Intergarrison North South Road area to Inland Ranges. Photo Numbers 3-1 through 3-25, 2-53 through 2-80, and 2-10, 2-12, 2-14, 2-16, 2-18, 2-20, 2-22, 2-24, 2-26, 2-28, 2-31, 2-33, 2-35, 2-37, 2-39, 2-41, 2-43, 2-45, 2-47, 2-49, 2-51	6/23/51, 7/3/51	Fairchild Aerial Surveys, Inc.	9 by 9 inch set of 46 photographs covering a portion of the installation. Scale is 1 inch = 400 feet.
Aerial Photograph, Southeastern Inland Ranges, Photo Number ABG-23R-85	8/1/56	U. S. Department of Agriculture, Soil Conservation Service	13 by 13 inch photograph covering portion of the installation
Aerial Photograph, Parker Flats Area, Photo Number ABG-5R-35	5/1/56	U. S. Department of Agriculture, Soil Conservation Service	13 by 13 inch photograph covering portion of the installation
Aerial Photograph set covering majority of Fort Ord. Photo Numbers ABG-1GG-45-53,128-133	5/2/66	Not Referenced	9 by 9 inch set of 15 photographs covering a portion of the installation.
Aerial Photograph set covering Inland Ranges, Photo Numbers 186-1-1 through 186-1-10	3/13/69	USACE Fort Ord	9 by 9 inch set of 10 photographs covering the inland ranges.

**Table 3. Aerial Photograph Review  
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<b>Aerial Photograph Area</b>	<b>Date</b>	<b>Reference</b>	<b>Comments</b>
Aerial Photograph set covering portion of Fritzsche Army Airfield, Intergarrison Area, Main Garrison and Inland Ranges, Photo Numbers 186-1 through 17 and 186-1 through 4.	5/10/74, 10/18/74	USACE	9 by 9 inch set of 21 photographs covering a portion of the installation. Scale of photos ranges from 1:2500 to 1:18,000
Aerial Photograph set covering most of the installation, Photo Numbers 186-1-3 though 1-6, 186-2-1 through 2-4 and 2-6, 186-3-1 and 3-4 through 3-6, 186-4-3.	12/17/75	USACE, American Aerial	9 by 9 inch set of 14 photographs covering most of the installation. Scale of photographs 1:25,000.
Aerial Photograph set covering all but Main Garrison area. Photo Numbers 178-138, -139, -141, -161 and -162.	6/16/78	USDA	9 by 9 inch set of 5 photographs covering a portion of the installation.
Aerial Photograph covering all of Fort Ord. Photo Number 1-5-0	12/1/80	Not Available	30 by 30 inch photograph covering entire installation.
Aerial Photograph set covering Main Garrison and portion of Fritzsche Army Airfield and housing areas between Main Garrison and Fritzsche Army Airfield. Photo Numbers 1-1 through 1-6, 2-1 through 2-6, 3-1 through 3-6 and X-1 through X-5.	10/22/85	Not Available	9 by 9 inch set of 20 photographs covering portion of the installation. Scale is 1:12,000.
Aerial Photograph set covering Main Garrison and portion of Fritzsche Army Airfield and housing areas between Main Garrison and Fritzsche Army Airfield. Photo Numbers 1-1 through 1-5, 2-1 through 2-5, 3-1 through 3-5 and 186 9-93 through 9-94.	3/25/86, 11/12/86	Not Available	9 by 9 inch set of 15 photographs covering a portion of the installation,

**Table 3. Aerial Photograph Review  
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<b>Aerial Photograph Area</b>	<b>Date</b>	<b>Reference</b>	<b>Comments</b>
Aerial Photograph set presented in Aerial Photograph Analysis of Fort Ord Military Reservation, Monterey County dated November 1992. Series of photograph sets from 1941 through 1992.	1941 through 1992	US EPA, Region 9	Photobook containing aerial photographs with EPA interpretation of physical features.
Oblique aerial of the recently constructed Main Garrison Fort Ord	10/14/41	0103-46B-82 12-2500	
Aerial photograph of Camp Ord (East Garrison) Circa 1939	Unknown		Small arms ranges and "tent city" clearly visible.
Oblique aerial photograph. South from Ord-Marina Highway	Unknown	03	Prior to construction of the Main Garrison and Beach ranges. Outline of the 200-acre parcel in the Main Garrison area is visible.
Oblique aerial photograph. View from east to west of most of the Fort Ord area prior to development	Unknown	RJ362-West	This photo appears to have been taken at approximately the same date as the above photo.

**Table 4. RI Activities  
Summary of Activities  
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<b>IRP Site Number</b>	<b>Geophysical Survey</b>	<b>Trenching</b>	<b>Excavation</b>	<b>Comments</b>
1		x	x	IA-Trickling Filter
2			x	Holding ponds
3			x	RI - Ranges
6			x	IA
8			x	IA
10			x	Burn Pit
12	x	x	x	Lower Meadow
14			x	Grease Racks
15			x	IA
16	x	x	x	RI
17	x	x	x	RI
20	x	x	x	IA
21			x	IA
22			x	IA
24	x	x	x	IA
30			x	IA
31	x		x	RI
32			x	IA
34	x	x	x	IA
36			x	IA
39A			x	IA
39B	x	x	x	IA
40	x	x	x	IA
41			x	IA

**Table 5. Potential Unexploded Ordnance Report Summary  
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<b>Map Location Number</b>	<b>OE Item Identified</b>	<b>Source</b>	<b>Report Date</b>	<b>OE-site Number</b>	<b>Comments</b>
1	Smoke grenade (OE scrap)	BLM <sup>1</sup>	Nov-97	None	Situation resolved by UXO contractor, site is near OE-27N Item was rusted out.
2	Parachute Flare (OE scrap)	BLM	6/3/97	None	Item removed by Federal Police. Non-hazardous
3	Possible 75mm projectile (OE scrap)	BLM	6/2/97	OE-64	Located near top of ridge, item removed, was not hazardous.
4	Ground burst simulator	BLM	7/7/97	None	Item removed for disposal by UXO contractor, located near OE-27L.
5	2 40mm practice projectiles (Dud)	BLM	9/29/97	None	Dud Items removed for disposal by UXO contractor. Found near OE-11.
6	10 Slap flares, 1 smoke grenade, possible other unidentified (OE scrap)	BLM	11/18/97	None	Items removed by UXO contractor for disposal, near OE-10B.
7	Practice mine (OE scrap)	BLM	6/17/98	None	Inert item, removed by UXO contractor.
8	MK 2 Hand Grenade (OE scrap)	BLM	10/14/98	OE-10B	Item removed for disposal by UXO contractor.
9	Slap Flare (OE scrap)	BLM	4/6/99	None	Near OE-10B.
10	Slap Flare (OE scrap)	BLM	Not available	OE-57	Item 50 yards from trail.
11	Smoke Grenade (OE scrap)	BLM	1/26/99	OE-27Q	Off Pilacitos Canyon. Item expended, removed by UXO contractor for disposal.
12	Smoke Grenade (OE scrap)	BLM	2/10/99	OE-10A	Intersection of Eucalyptus and Hennikens Ranch Road
13	Smoke Grenade (OE scrap)	BLM	7/28/97	OE-35	Item removed by UXO contractor. No fuze.
14	Pile of projectiles (OE scrap)	BLM	6/30/97	OE-12	Items removed by UXO contractor.
15	Possible 60mm mortar head (OE scrap)	BLM	6/3/97	Unknown	Item removed by Corps Safety Specialist.
16	Unknown dud	Range Control <sup>2</sup>	10/16/75	None	Located at landfill area.

**Table 5. Potential Unexploded Ordnance Report Summary  
Draft Final Literature Review  
Former Fort Ord, California**

<b>Map Location Number</b>	<b>OE Item Identified</b>	<b>Source</b>	<b>Report Date</b>	<b>OE-site Number</b>	<b>Comments</b>
17	40mm HE projectile	Range Control	11/3/81	None	Located at training area G-7.
18	Smoke canister (OE scrap)	Range Control	March/April 1984	None	Location specified at Area L. Location within Training Area L is not documented.
19	Artillery simulator	Range Control	10/9/85	OE-27H	Location specified at OE Site 27H. Location within OE Site 27H is not documented.
20	Unknown dud	Range Control	December 1985/January 1986	OE-27F	Location specified as Training Site 6. Location within Site 6 is not documented.
21	40mm practice projectile	Range Control	4/13/87	None	Located at coordinate 094559
22	343 2.36-inch Rockets (OE scrap)	Range Control, CMS <sup>3</sup>	8/9/93, April 1997	OE-2	Items disposed of by UXO contractor.
23	1 Stokes mortar, 1 105mm HE projectile, 10 2.36-inch rockets, 1 illumination grenade, 1 rocket burster, 1 slap flare, 1 60mm illuminating mortar, 6 smoke rifle grenades	CMS	7/96 through 10/96	None	Items found during landfill construction activities at Area A. Records indicate some items were live and some were scrap.
24	2 40mm projectiles (OE scrap)	CMS	8/5/97	OE-49	Items found by housing resident. Inert items removed for disposal by UXO contractor. Based on age of item would not be associated with training activities at OE-49.
25	1 40mm practice projectile (OE scrap)	CMS	7/14/99	None	Item found at Fitch Park housing area. Inert item removed for disposal by UXO contractor. Based on age of item it would not be associated with training activities at nearby OE sites 24A through 24E.

**Table 5. Potential Unexploded Ordnance Report Summary  
Draft Final Literature Review  
Former Fort Ord, California**

<b>Map Location Number</b>	<b>OE Item Identified</b>	<b>Source</b>	<b>Report Date</b>	<b>OE-site Number</b>	<b>Comments</b>
26	1 81mm practice mortar (inert)	EOD <sup>4</sup>	1/10/92	OE-54	Retained for training use.
27	1 Rifle smoke grenade 100-M <sup>1</sup> rounds, Ball and tracer	EOD	2/20/93	None	Items found 50 feet from the base of the water tower. Taken to safe holding area.
28	1 Training mine 1 Unfuzed 100lb bomb (OE scrap) 1 Parachute trip flare 2 Practice anti-tank mines	EOD	4/3/93	OE-18	Taken to safe holding area. 100lb bomb was a concrete filled training device.
29	1 3.5-inch rocket motor (OE scrap)	EOD	5/11/93	OE	Taken to safe holding area.
30	1 3.5-inch rocket	HLA <sup>5</sup>	1975 to 1978	None	Item found in bush approximately one mile east of the intersection of Blanco Road and Reservation Road.
31	Practice landmine (OE scrap)	HLA	Unknown	None	Inert training device removed by 87 <sup>th</sup> EOD.
32	1 2.36-inch rocket	CMS	Unknown	None	Item detonated in place.
33	1 M-79 grenade	Fort Ord Panarama	9/10/76	OE-15 BLM	Items found near Ranges 45 or 48 and brought back to housing area.
34	1 Hand grenade (OE scrap)	Contractor field notes	9/12/94	None	Inert training device removed by UXO contractor.

<sup>1</sup> Bureau of Land Management Unexploded Ordnance Potential Incident Reports

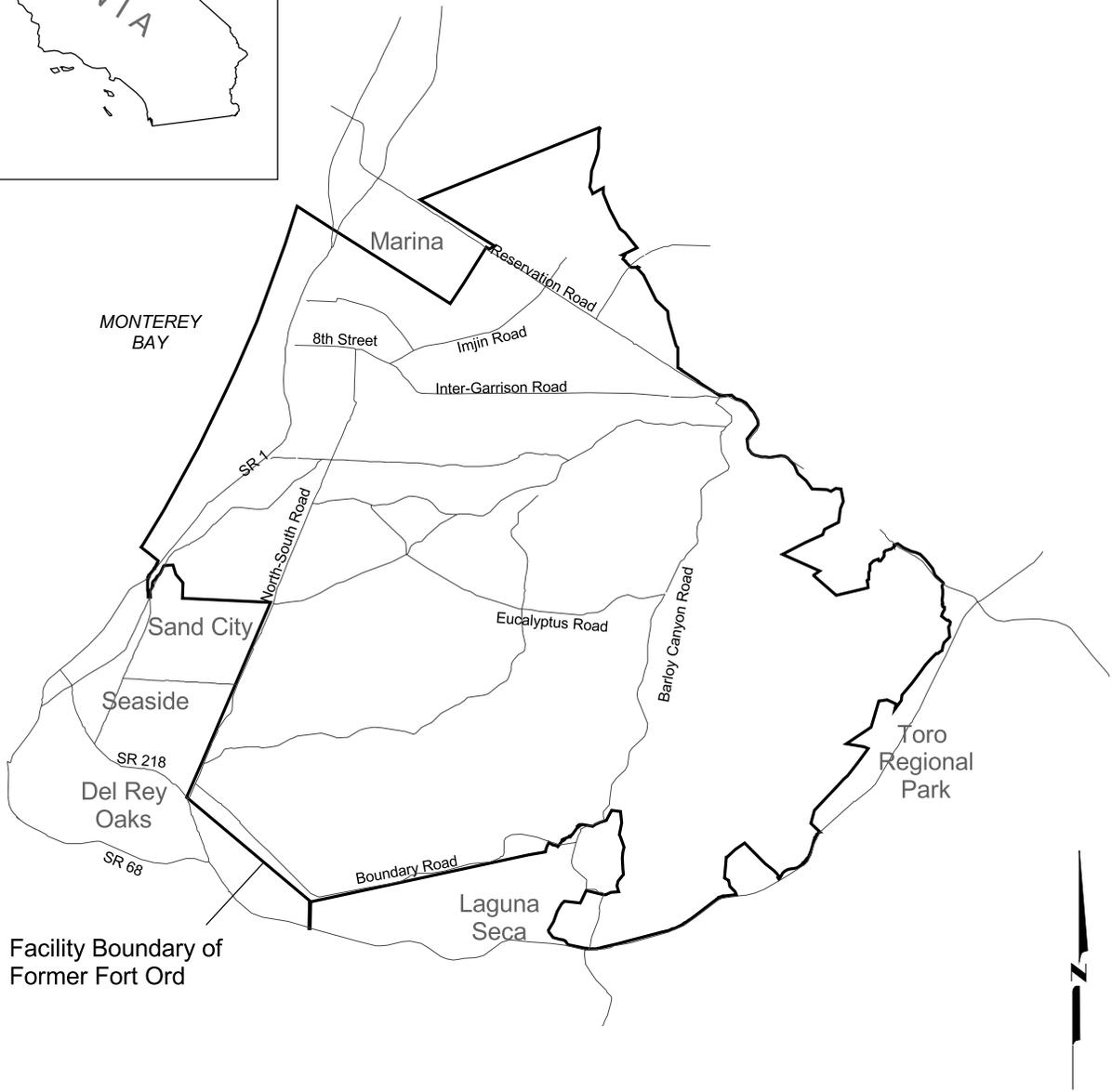
<sup>2</sup> Range Control Dud Records

<sup>3</sup> CMS Unexploded Ordnance Incident Report (CMS now known as USA Environmental, Inc.)

<sup>4</sup> Explosive Ordnance Detachment Incident Report

<sup>5</sup> HLA Site 39 Data Summary and Work Plan

## **PLATES**



**Harding Lawson Associates**  
 Engineering and  
 Environmental Services

**Location Map - Former Fort Ord**  
 Draft Literature Review  
 Former Fort Ord  
 Monterey, California

PLATE

**1**

DRAWN  
 TJH

JOB NUMBER  
 46310 00116

APPROVED

DATE  
 7/99

REVISED DATE

ncta.apr - 7/16/99 - litrev - Plate 1





EXPLANATION

OE-30 OE Site Location and Number



**Harding Lawson Associates**  
Engineering and  
Environmental Services

**Previously Identified Known or Suspected OE Sites**  
Draft Literature Review  
Former Fort Ord  
Monterey, California

PLATE

**3**

DRAWN  
TJH

JOB NUMBER  
46310 00176

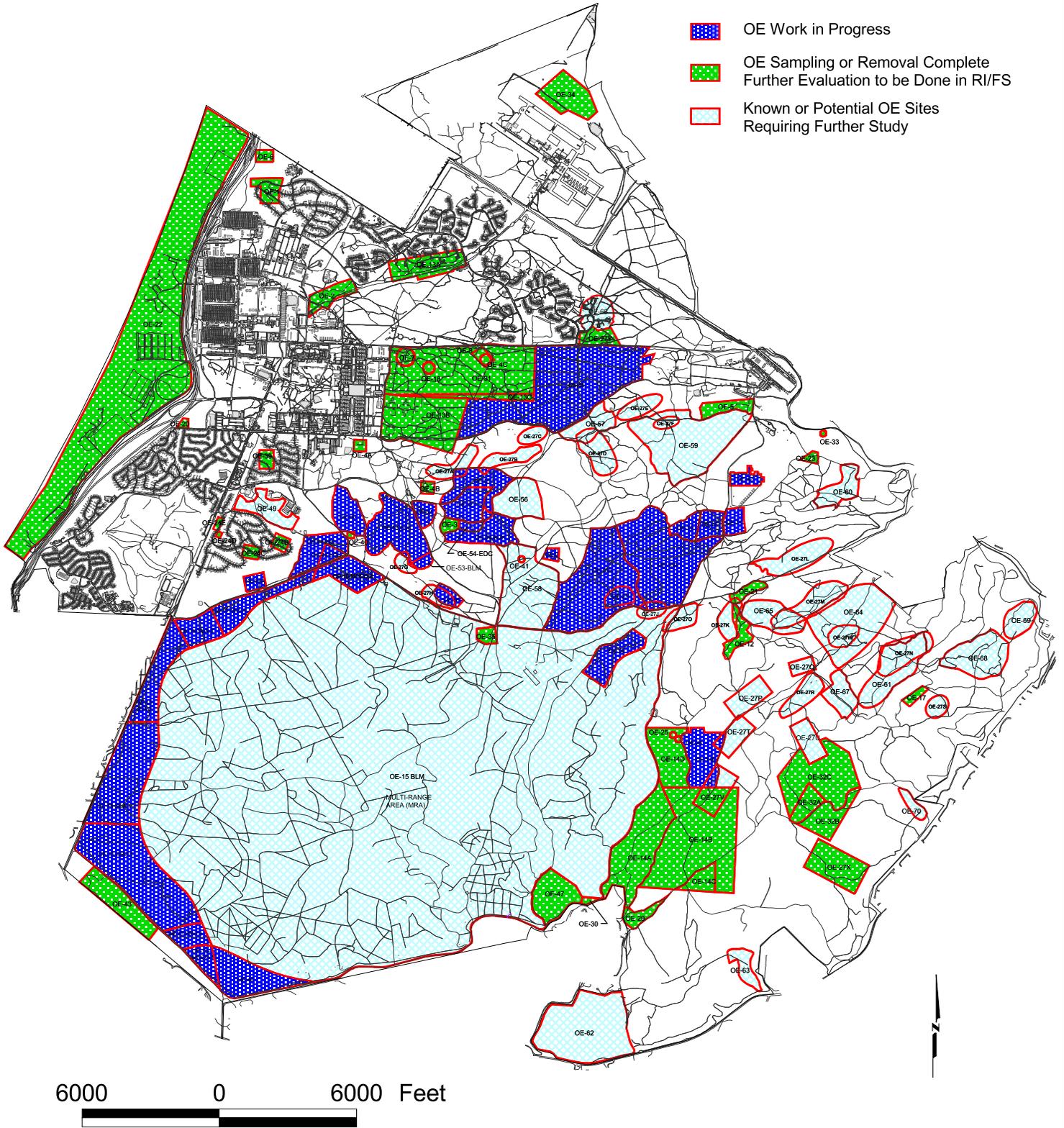
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DATE  
7/99

REVISED DATE

EXPLANATION

-  OE Work in Progress
-  OE Sampling or Removal Complete  
Further Evaluation to be Done in RI/FS
-  Known or Potential OE Sites  
Requiring Further Study



FIGURE

4



**Harding Lawson Associates**  
Engineering and  
Environmental Services

**OE Site Status**  
Draft Final Literature Review  
Former Fort Ord  
Monterey, California

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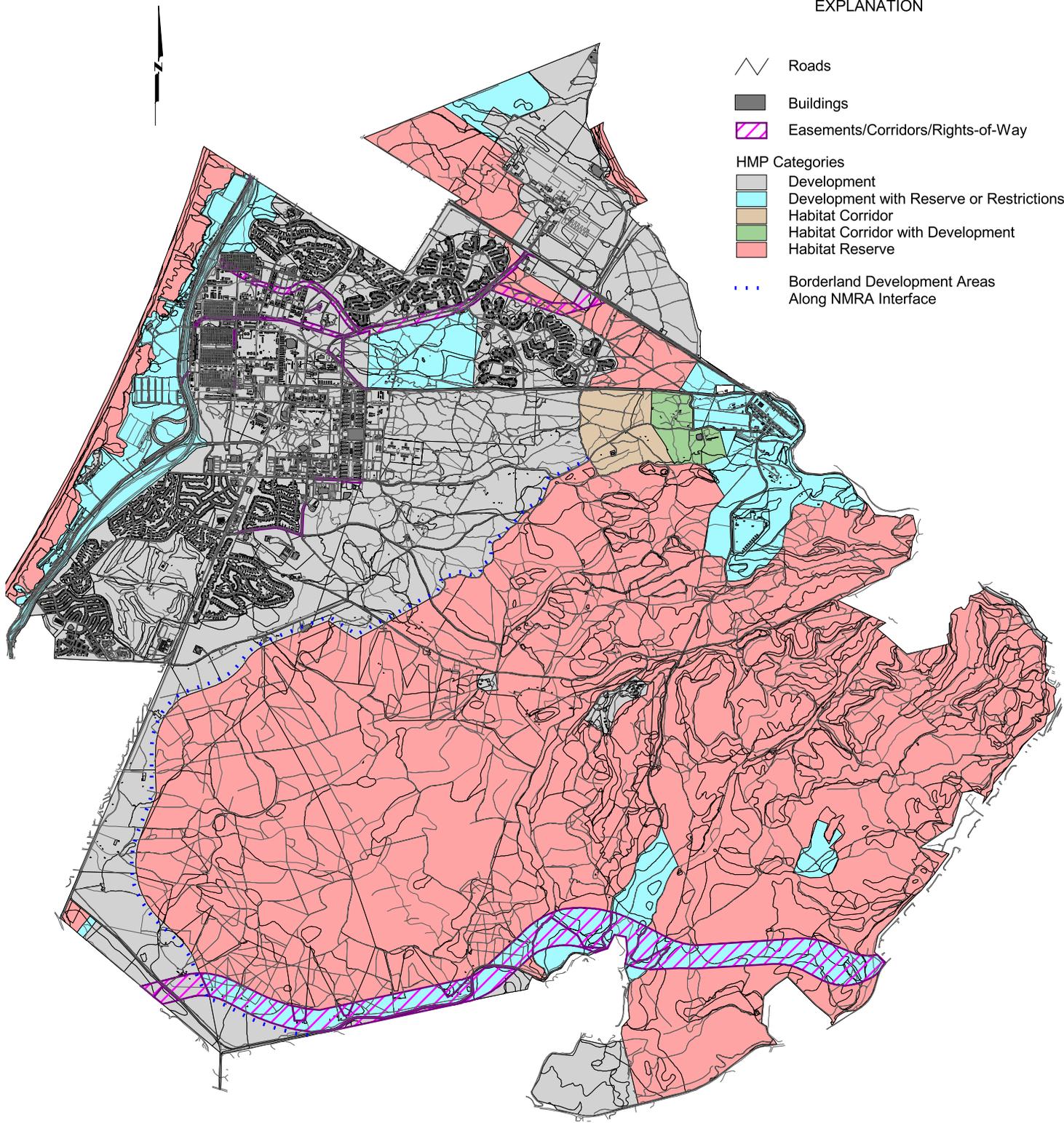
DATE  
12/99

REVISED DATE

litrev1.apr - 12/21/99- OE status

EXPLANATION

-  Roads
-  Buildings
-  Easements/Corridors/Rights-of-Way
- HMP Categories**
  -  Development
  -  Development with Reserve or Restrictions
  -  Habitat Corridor
  -  Habitat Corridor with Development
  -  Habitat Reserve
-  Borderland Development Areas Along NMRA Interface



6000 0 6000 Feet



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**Land Reuse (HMP)**  
 Draft Literature Review  
 Former Fort Ord  
 Monterey, California

DRAWN TJH	JOB NUMBER 46310 00176	APPROVED	DATE 7/99	REVISED DATE
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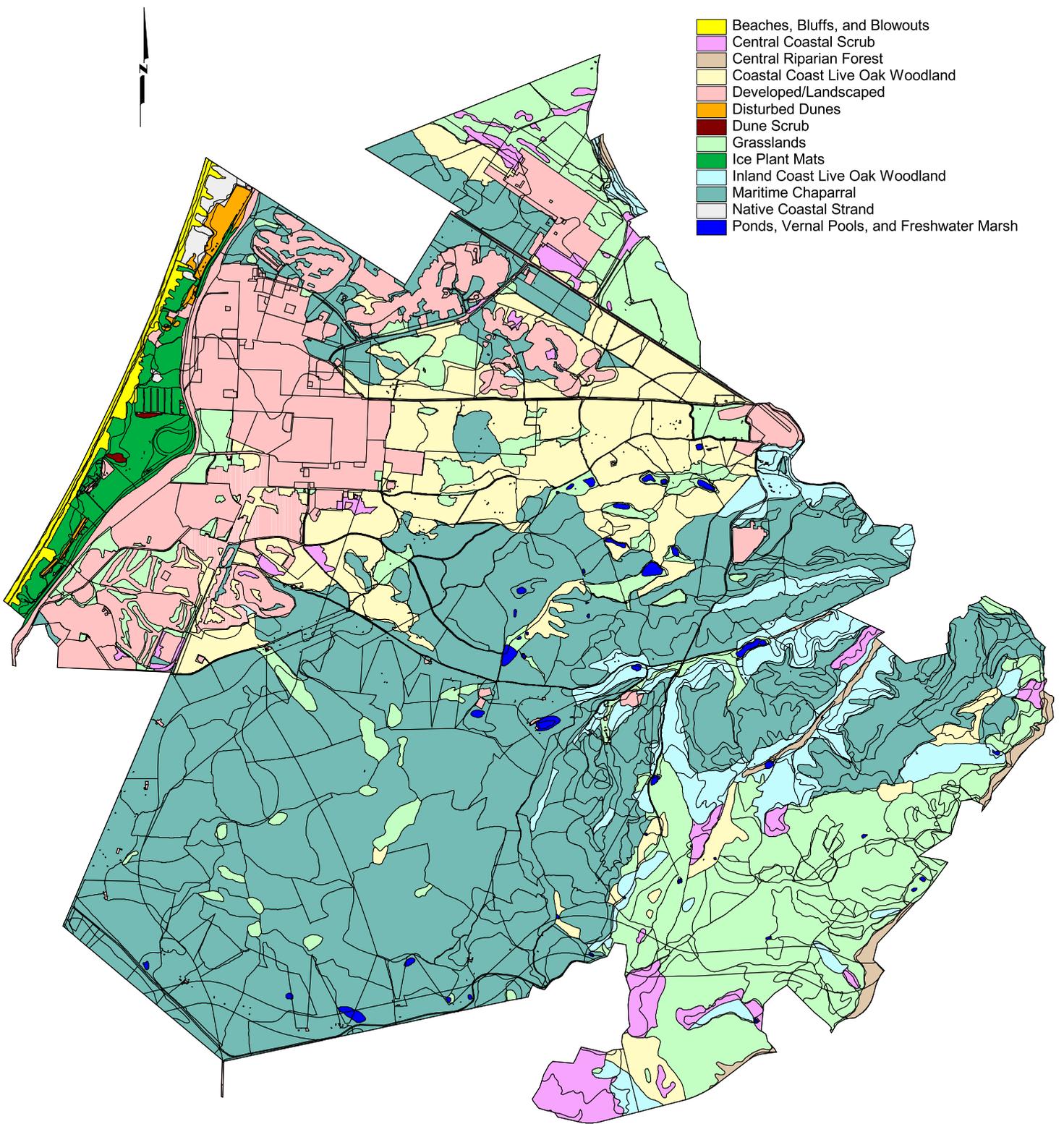
PLATE

**5**

litrev2 - Plate 5 - 7/12/99

EXPLANATION

- Beaches, Bluffs, and Blowouts
- Central Coastal Scrub
- Central Riparian Forest
- Coastal Coast Live Oak Woodland
- Developed/Landscaped
- Disturbed Dunes
- Dune Scrub
- Grasslands
- Ice Plant Mats
- Inland Coast Live Oak Woodland
- Maritime Chaparral
- Native Coastal Strand
- Ponds, Vernal Pools, and Freshwater Marsh



6000 0 6000 Feet



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Engineering and  
Environmental Services

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**Plant Communities**  
Draft Literature Review  
Former Fort Ord  
Monterey, California

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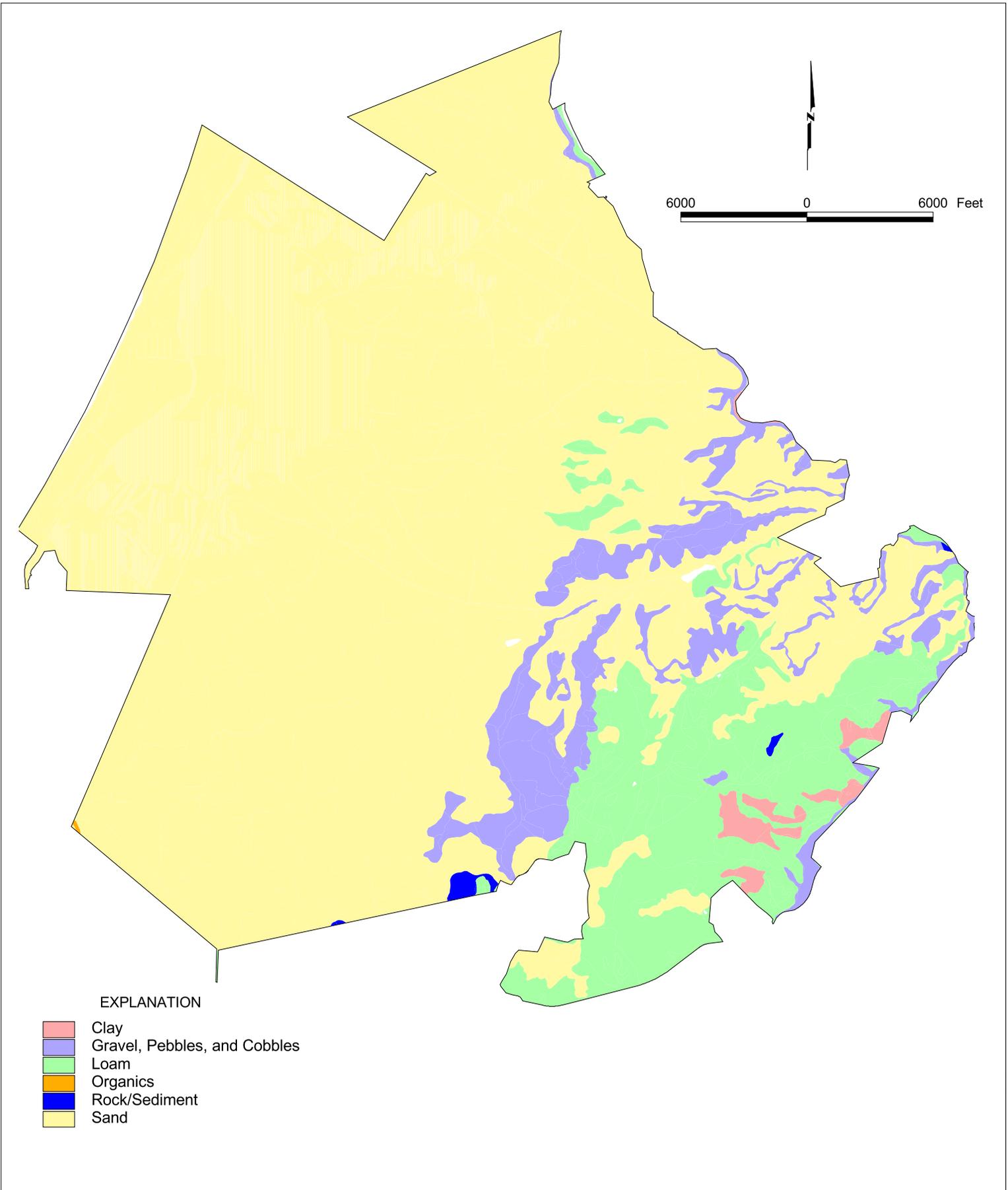
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7/99

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PLATE

**6**

litrev2.apr - Plate 7 - 7/12/99



litrev2.apr- Plate 7- 7/12/99



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**Generalized Soil Types**  
 Draft Literature Review  
 Former Fort Ord  
 Monterey, California

PLATE

**7**

DRAWN  
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JOB NUMBER  
 46310 00176

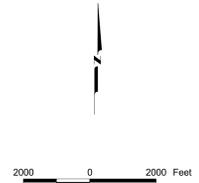
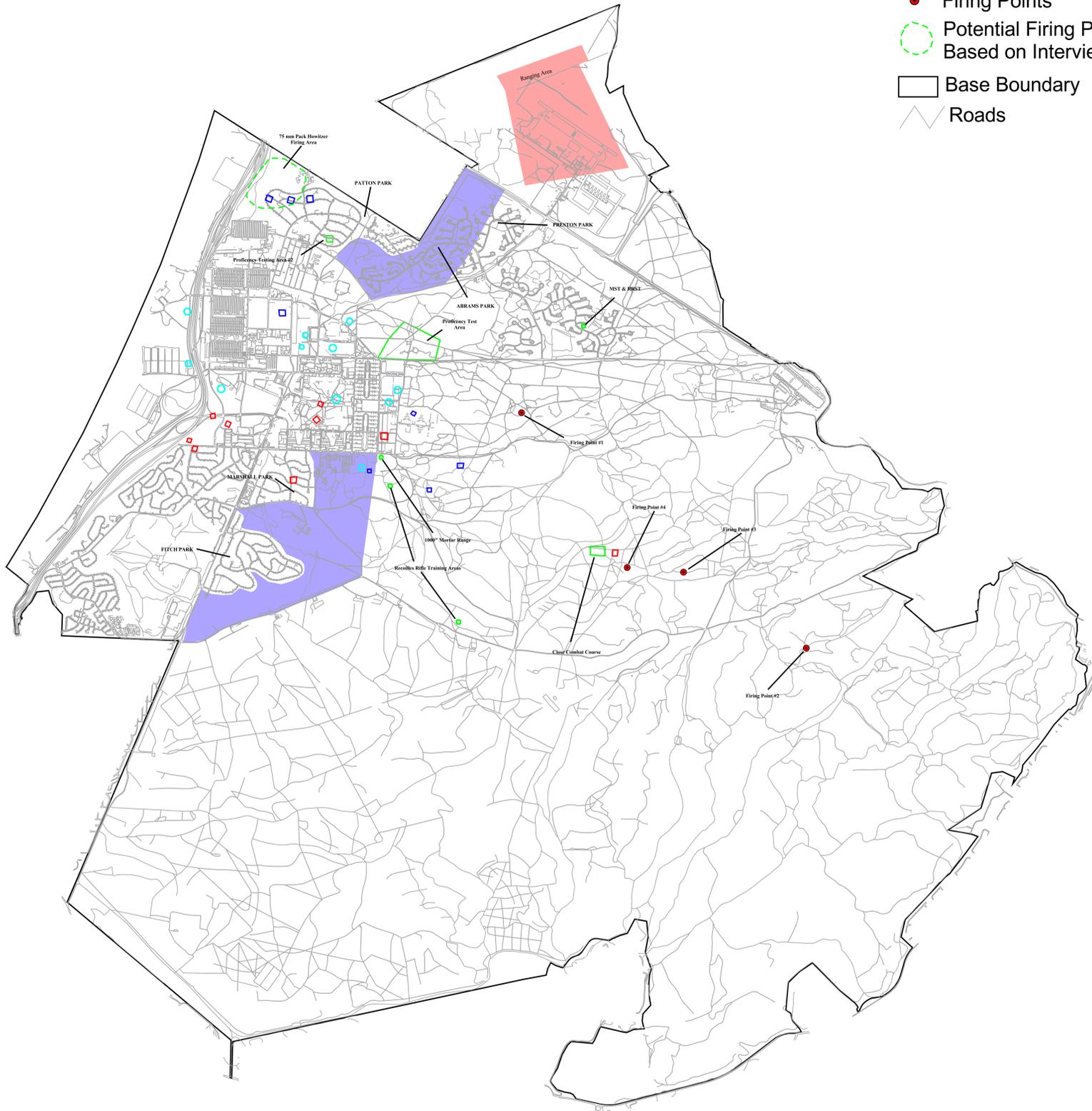
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EXPLANATION

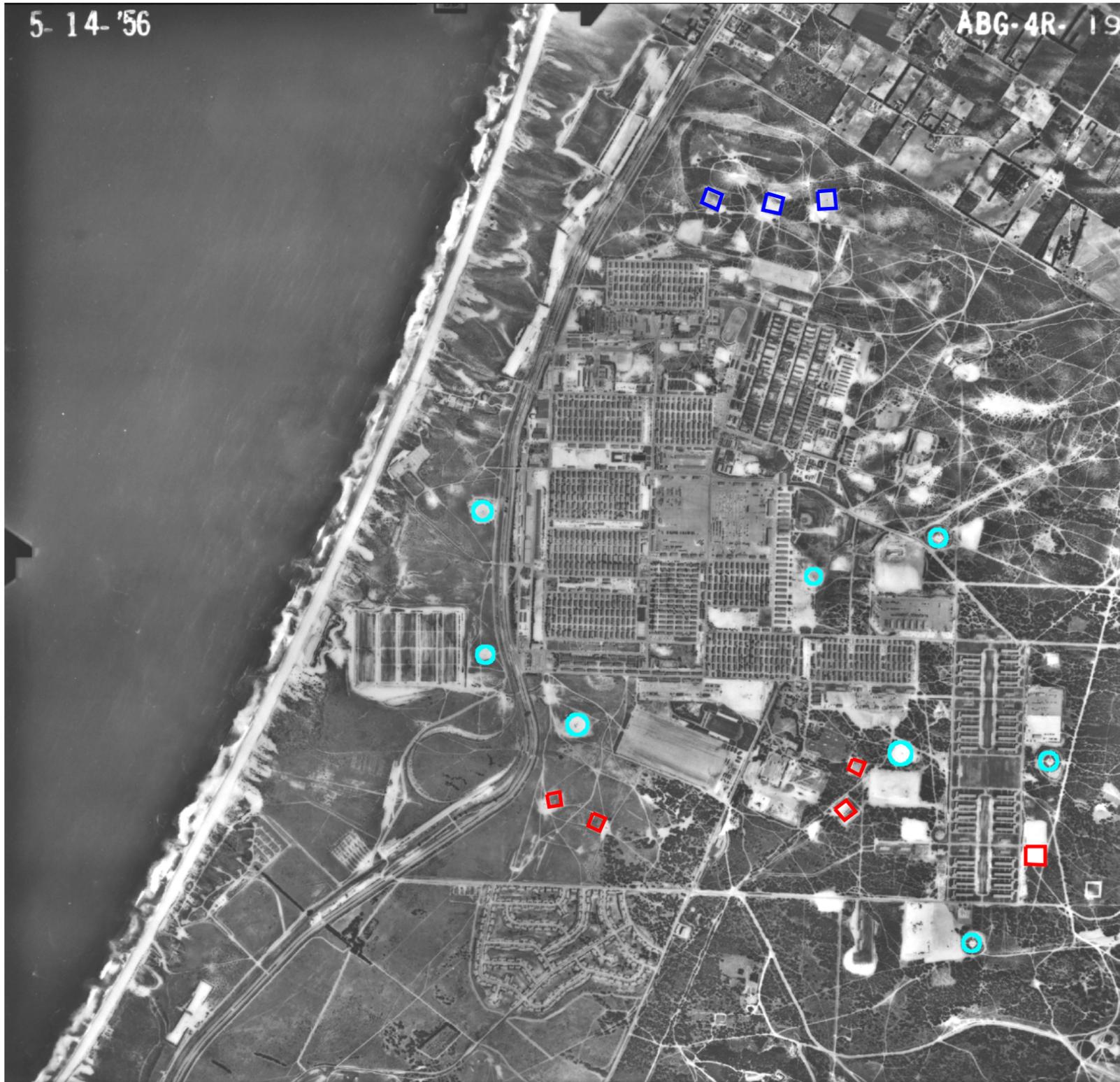
Training Facilities

- Mortar Squares
- Machine Gun Squares
- Rifle Instruction Circle (RIC)
- Other Training Areas
- Ranging Area
- OE Sweep Areas
- Firing Points
- Potential Firing Point Area Based on Interview
- Base Boundary
- Roads



Note:  
The training facilities and firing points shown on this map were digitized from hand-drafted historical maps and are approximate. Many features were verified and adjusted based on aerial photos and local terrain knowledge.

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	DRAWN: JCB	SCALE: 1" = 2000'		FORMER FORT ORD, CALIFORNIA	Training Facilities and Firing Points
DATE	REVISIONS	BY	CHK	DATE	DATE
				9/99	August 17, 1999



EXPLANATION

- Mortar Squares
- Machine Gun Squares
- Rifle Instruction Circle

2000 0 2000 Feet



**Harding Lawson Associates**  
Engineering and  
Environmental Services

DRAWN: JCB  
JOB NUMBER: 46310 00176

**1956 Photograph - Non - OE Firing Training Areas**  
Draft Literature Review  
Former Fort Ord  
Monterey, California

APPROVED

DATE: 8/99

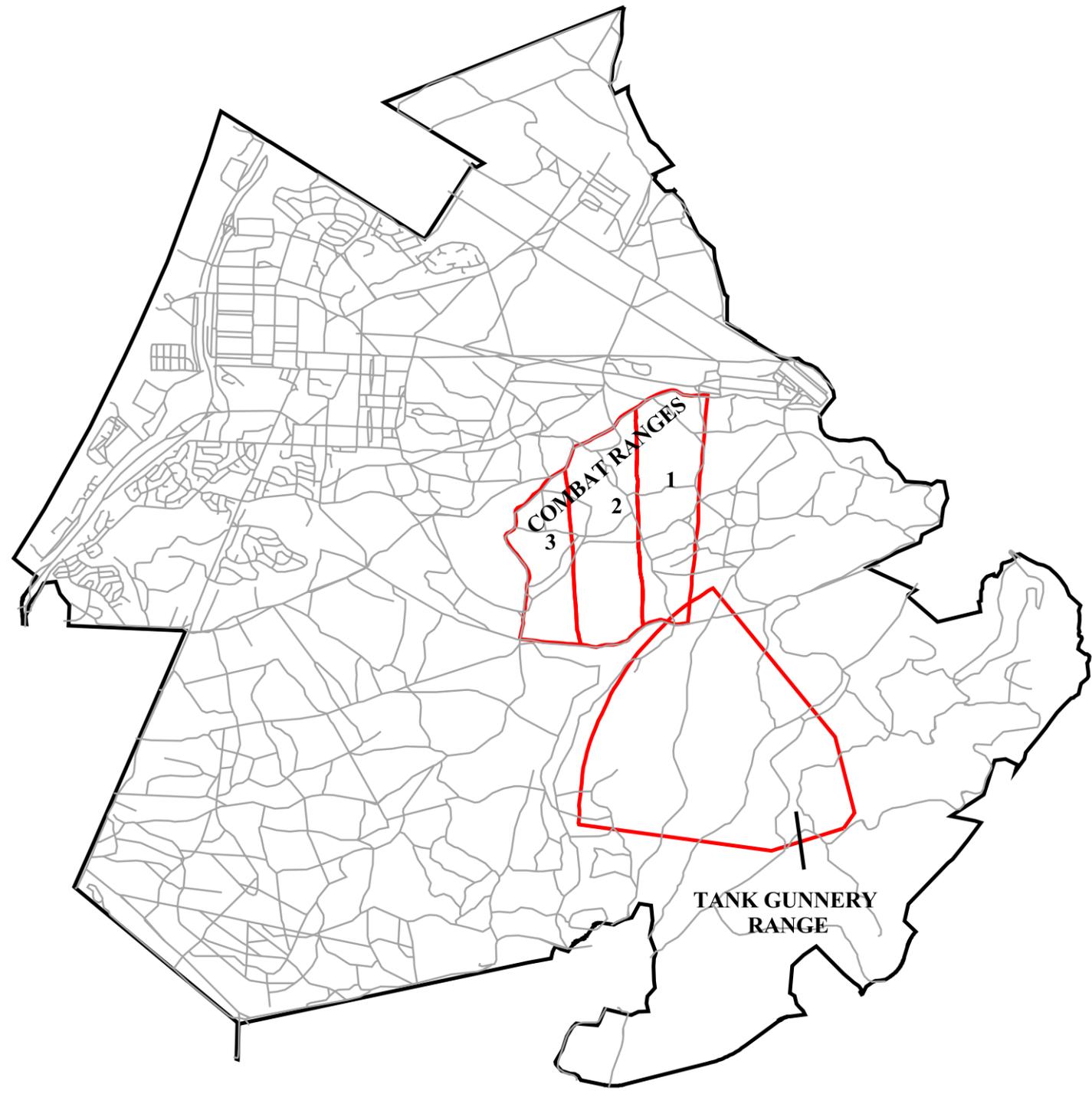
PLATE  
**9**

REVISED DATE



EXPLANATION

-  Identified Suspect Training Areas
-  Roads
-  Base Boundary



Note:  
The Suspect Training Area locations  
were digitized from hand-drafted  
historical maps and are approximate.



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**Identified Suspected Training Areas**  
Draft Literature Review  
Former Fort Ord  
Monterey, California

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46310 00176

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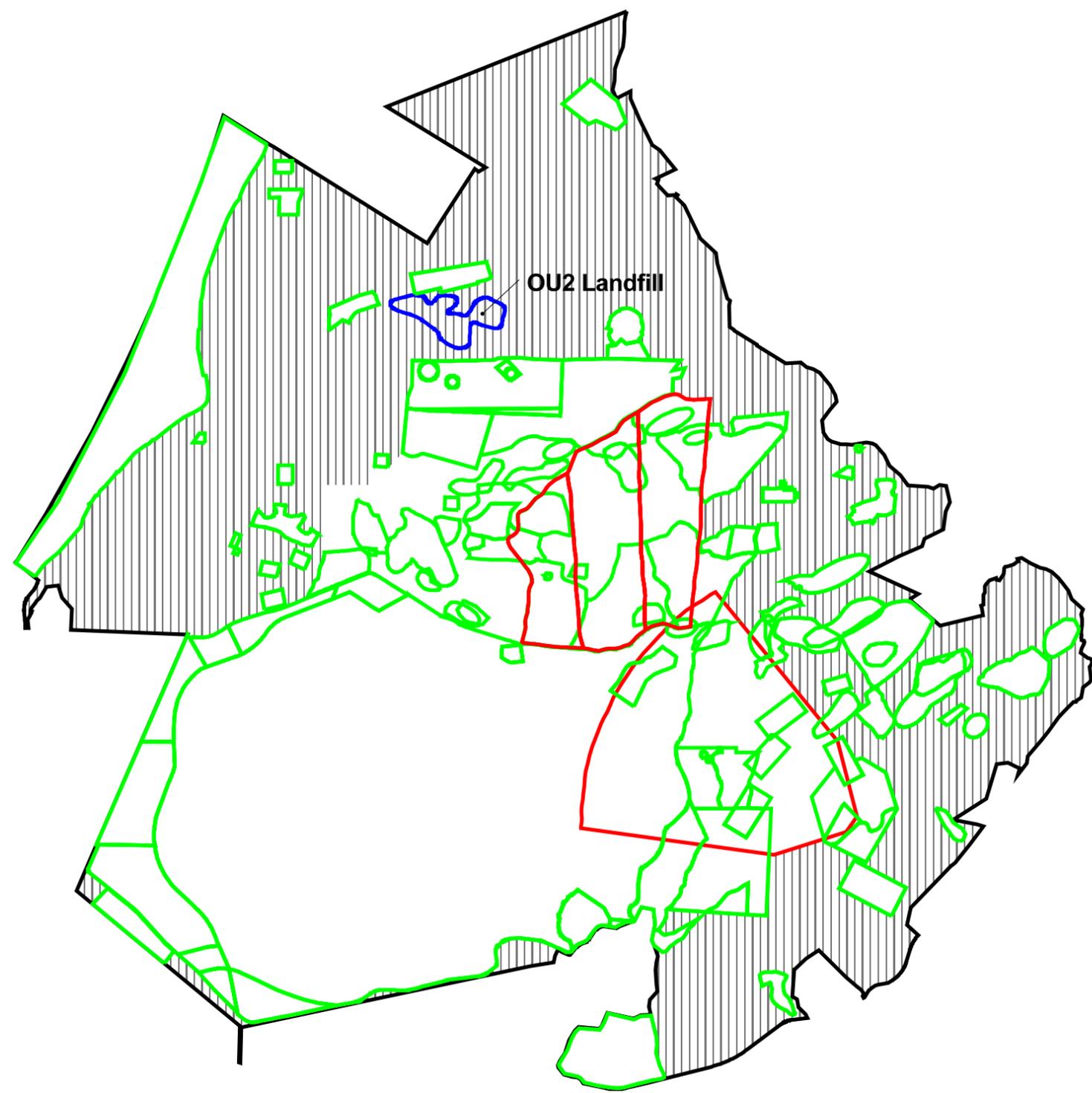
PLATE  
**10**  
REVISED DATE

litreview.apr - Plate 10 11x17 - 8/23/99



### EXPLANATION

-  No Evidence of OE Use
-  OE Found or Potential of OE to be Present
-  Other Identified Areas With Potential OE Present



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Environmental Services

DRAWN: JCB  
JOB NUMBER: 46310 00176

**Areas Designated as Non OE Areas**  
Draft Final Literature Review  
Former Fort Ord  
Monterey, California

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DATE: 12/99

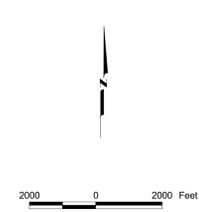
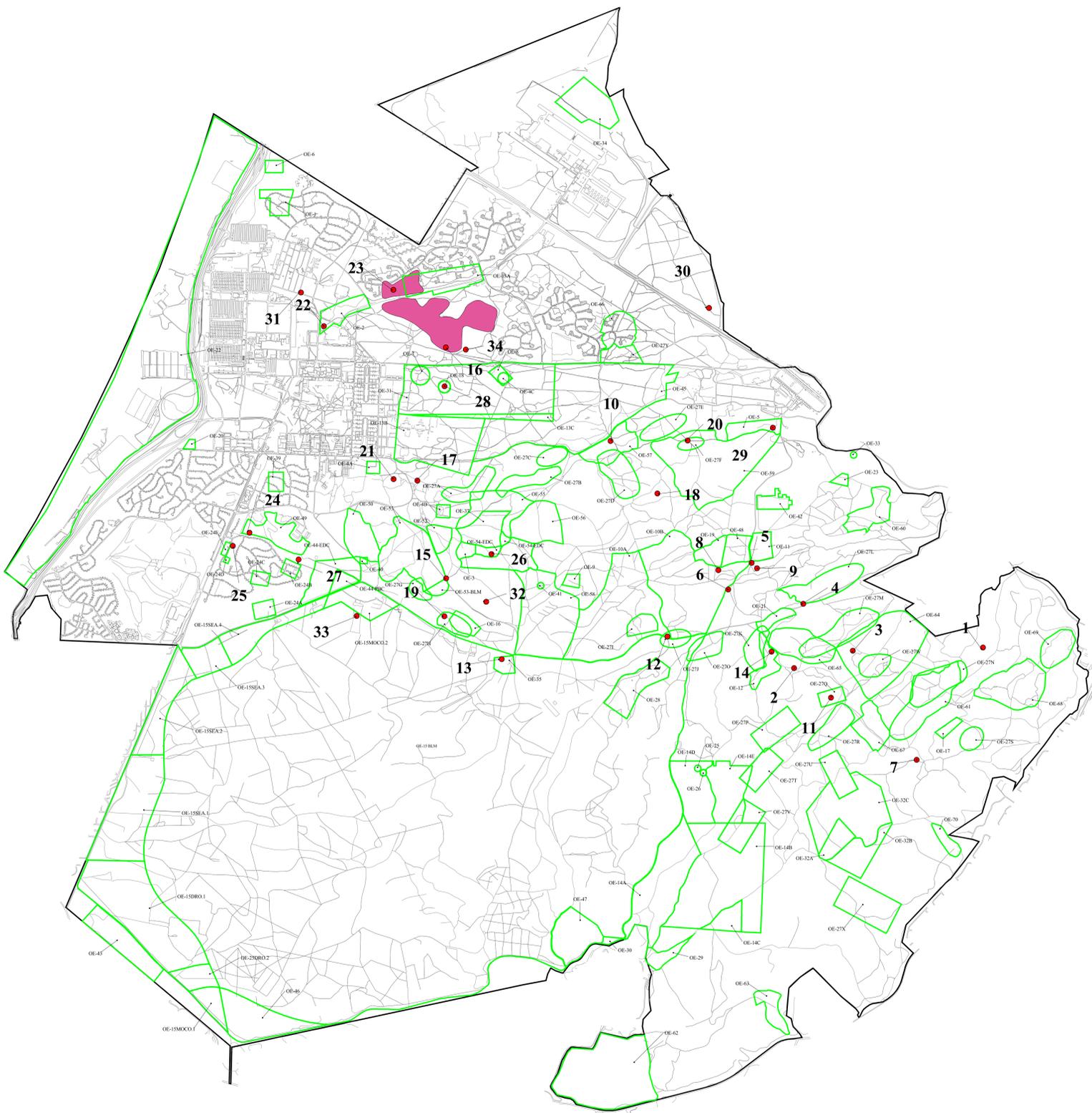
PLATE  
**11**  
REVISED DATE

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- Number Description (Status)
- (1) Smoke grenade (OE scrap)
  - (2) Parachute flare (OE scrap)
  - (3) 75mm projectile (OE scrap)
  - (4) Ground burst simulator (Live)
  - (5) 2.40mm practice projectile (Live)
  - (6) 10 slap flares (OE scrap)
  - (7) smoke grenade (OE scrap)
  - (8) other unidentified (OE scrap)
  - (9) Practice landmine (OE scrap)
  - (10) Hand Grenade (OE scrap)
  - (11) Slap flare (OE scrap)
  - (12) Slap flare (OE scrap)
  - (13) Smoke grenade (OE scrap)
  - (14) Smoke grenade (OE scrap)
  - (15) Pile of projectiles (OE scrap)
  - (16) Head from 60 mm mortar (OE scrap)
  - (17) Unknown dud (unknown)
  - (18) 40mm HE projectile
  - (19) Smoke canister (OE scrap)
  - (20) Artillery simulator
  - (21) Unknown dud
  - (22) 40mm practice projectile
  - (23) 468 2.36-inch rockets (OE scrap)
  - (24) Stokes mortar (OE scrap)
  - (25) 106mm projectile (OE scrap)
  - (26) 105mm HE projectile (OE scrap)
  - (27) 10 2.36-inch rockets (Live/OE scrap)
  - (28) Illumination grenade (OE scrap)
  - (29) Rocket burster (OE scrap)
  - (30) Slap flare (OE scrap)
  - (31) 60 mm illuminating mortar (OE scrap)
  - (32) 6 rifle smoke grenades (Live/OE scrap)
  - (33) 40mm practice projectile (OE scrap)
  - (34) 61mm practice mortar (OE scrap)
  - (35) Rifle smoke grenade
  - (36) Small arms rounds
  - (37) Unfuzed 100lb bomb (OE scrap)
  - (38) Training mine (OE scrap)
  - (39) Parachute trip flare (OE scrap)
  - (40) 2 Practice anti-tank mines (OE scrap)
  - (41) 3.5-inch rocket motor (OE scrap)
  - (42) 3.5-inch rocket (unknown)
  - (43) Practice land mines (OE scrap)
  - (44) 2.36-inch rocket (unknown)
  - (45) M-79 Grenade (Live)
  - (46) Hand Grenade (OE scrap)

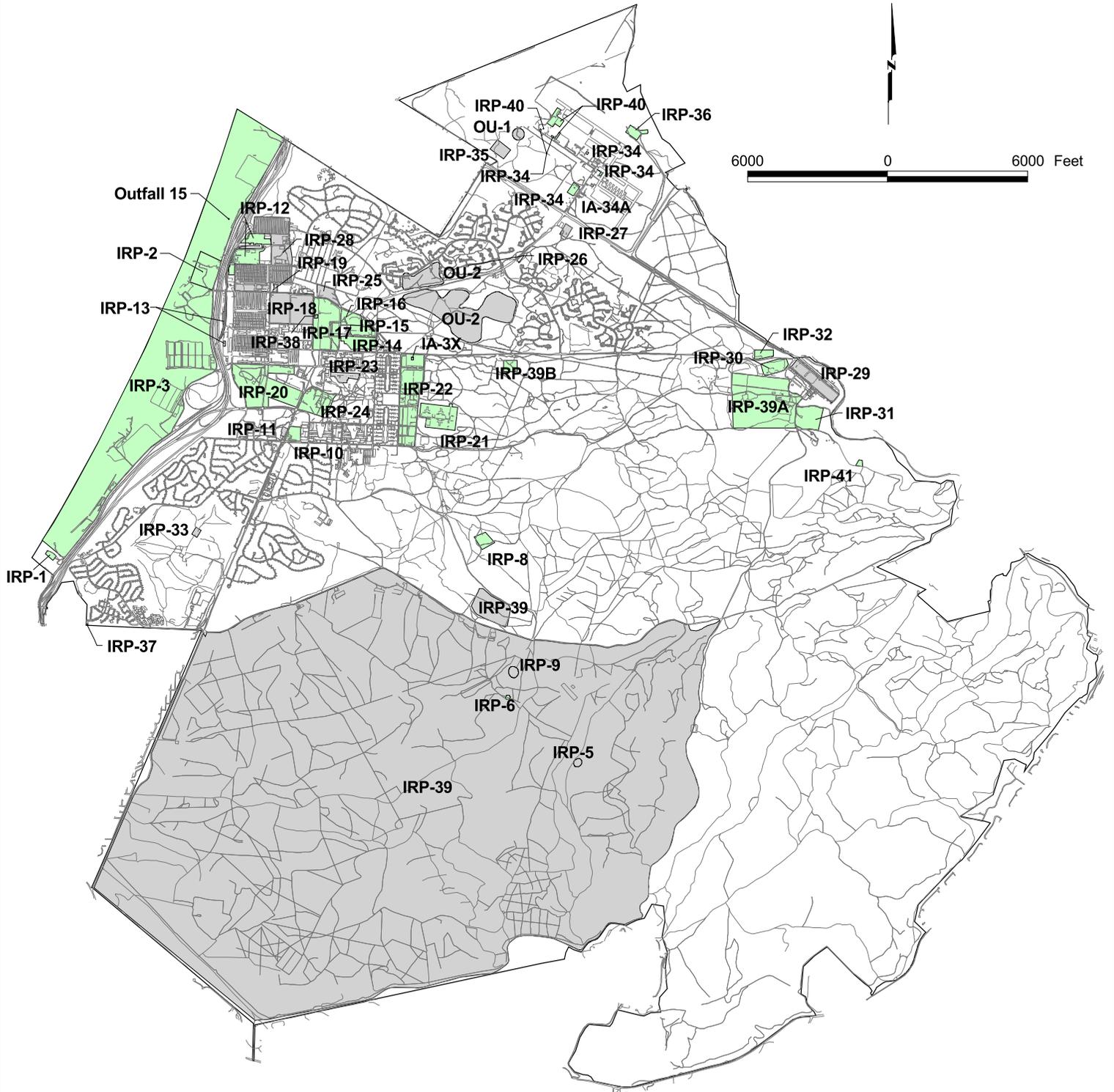
EXPLANATION

- Approximate Locations of UXO Items Identified In Incident Reports (See Table 5 for detail)
- Previously Identified OE Sites
- OU-2 Landfill Limits
- Roads
- Base Boundary



Note:  
All locations of reported UXO items identified in incident reports are approximate.

	DESIGNED:	PROJECT NO: 46310 00176	 <b>Harding Lawson Associates</b> Engineering and Environmental Services 90 Digital Drive Novato, California 94949 Phone: (415) 884-0112	Draft Final Literature Review	Approximate Locations of UXO Items Identified In Incident Reports	PLATE <b>12</b>
	DRAWN: TJH	SCALE: 1" = 2000'		FORMER FORT ORD, CALIFORNIA	REVISION NUMBER	
NO. DATE	REVISIONS	BY CHK DATE	DATE: 12/99		DATE: September 20, 1999	



EXPLANATION

- IRP Site Location
- IRP Site Investigated by Geophysical Surveying, Trenching or Excavation

EECA.apr-plate 12-7/12/99



**Harding Lawson Associates**  
 Engineering and  
 Environmental Services

**IRP Sites**  
 Draft Literature Review  
 Former Fort Ord  
 Monterey, California

PLATE

**13**

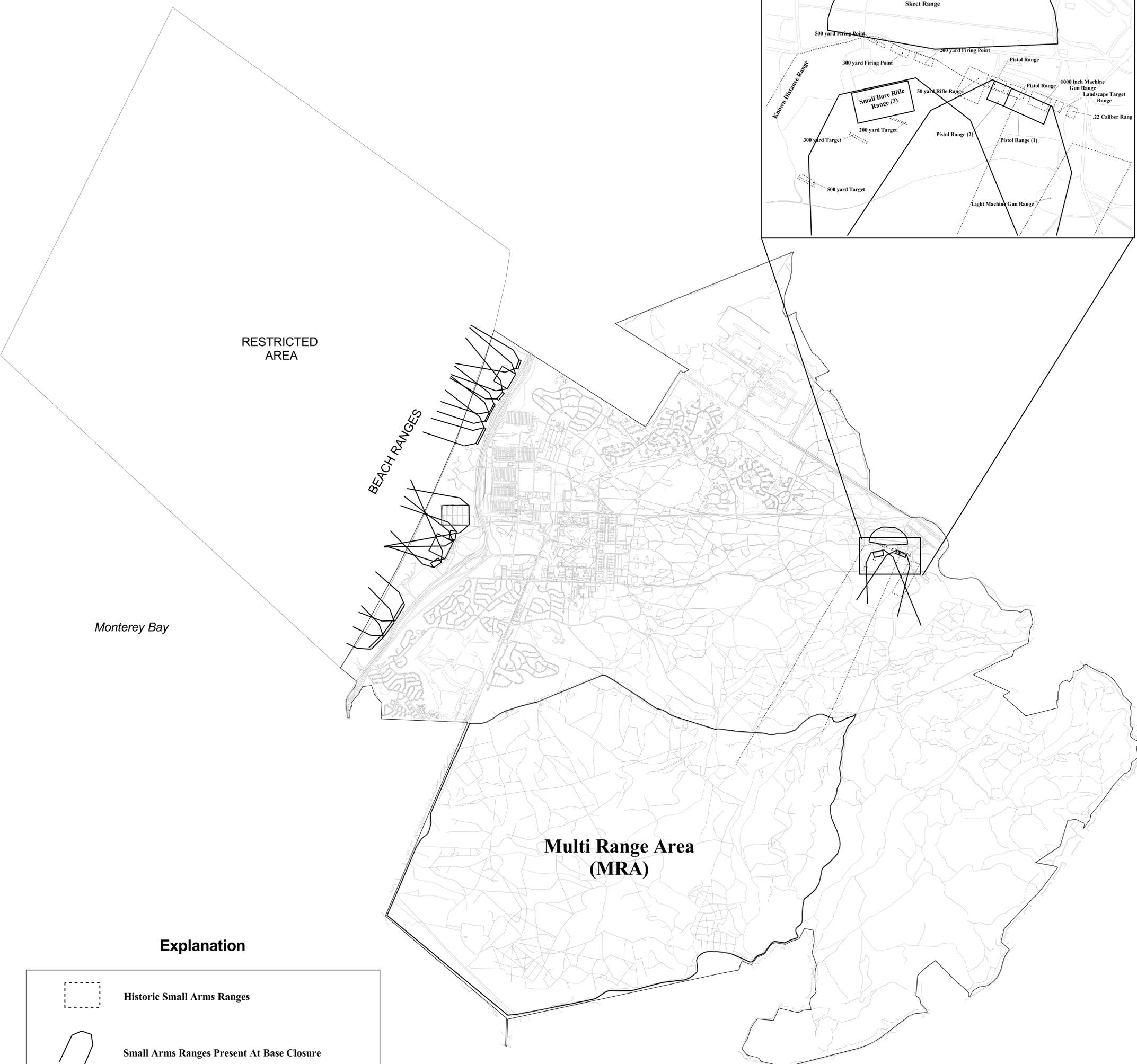
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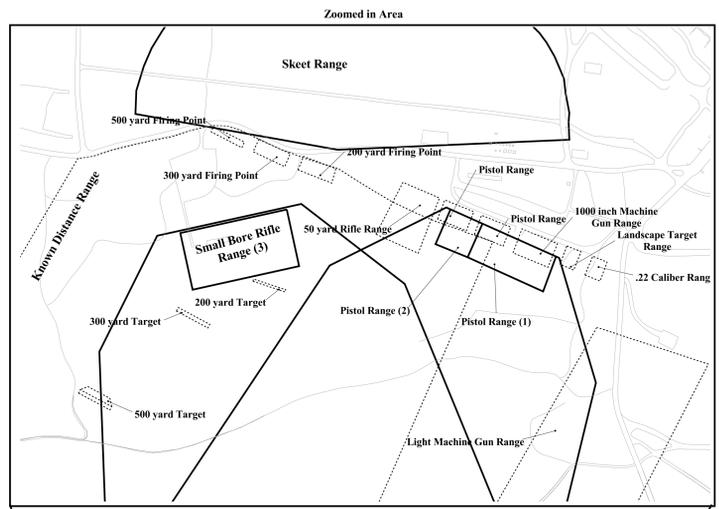


RESTRICTED AREA

Monterey Bay

BEACH RANGES

Multi Range Area (MRA)



**Explanation**

	Historic Small Arms Ranges
	Small Arms Ranges Present At Base Closure
	Roads
	Former Fort Ord Boundary



Note:  
The Small Arms Ranges and Range Fans shown on this map were digitized from hand-drafted historical maps and are approximate. Many features were verified and adjusted based on aerial photos and local terrain knowledge.

NO.	DATE	REVISIONS	BY	CHK	DATE	DESIGNED: DRAWN: TJH APPROVED:	PROJECT NO: 46310 00176 SCALE: 1" = 2000' CHECKED: DATE: 12/99	 <b>Harding Lawson Associates</b> Engineering and Environmental Services 90 Digital Drive Novato, California 94949 Phone: 415/884-0112	Draft Final Literature Review  <b>FORMER FORT ORD, CALIFORNIA</b>	Beach and East Garrison Ranges	PLATE SHEET <b>14</b> REVISION NUMBER DATE
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**APPENDIX A**

**ARCHIVES SEARCH REPORT**

DRAFT



US Army Corps  
of Engineers

HUNTSVILLE DIVISION

---

U.S. Department of Defense

Ordnance and Explosives

**REVISED ARCHIVES SEARCH REPORT**

**FORMER FORT ORD,  
CALIFORNIA**

Monterey County, California

**1997**

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Prepared by  
US ARMY CORPS OF ENGINEERS  
ST. LOUIS DISTRICT

ORDNANCE AND EXPLOSIVES  
REVISED ARCHIVES SEARCH REPORT

FORT ORD, CA

MONTEREY COUNTY, CA

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## **1.0 Introduction**

### **1.1 Authority**

Fort Ord was identified for closure as a result of the Base Closure and Realignment Act of 1988 (Public Law [P.L.] 100-526) and the Defense Base Closure and Realignment Act of 1990 (DBCRA) (P.L. 101-510). On Jul. 1, 1991, the Defense Base Realignment and Closure Commission's 1991 (BRAC 91) report recommended Fort Ord, CA to be closed and the 7th Infantry Division (Light) (IDL) to be relocated to Fort Lewis, WA. In cooperation with the U.S. Army Engineering and Support Center, Huntsville (CEHNC), and the U. S. Army Corps of Engineers (USACE), Sacramento District, the U.S. Army Corps of Engineers, St. Louis District has been directed to develop a Revised Archives Search Report which supersedes the Original Archives Search Report, December 1993, and the Archives Search Report (Supplement No. 1), November, 1994.

### **1.2 Subject**

The subject Army installation has been known by several names during it's history: Gigling Reservation, Camp Ord, United States Field Artillery Range-Presidio of Monterey, Gigling Field Artillery Range, and Fort Ord. It will be referred to in this report as Former Fort Ord. Former Fort Ord is approximately 100 miles south of San Francisco, situated in Monterey County, California, on Monterey Bay. Portions of the installation are within existing cities of Marina and Seaside and are adjacent to the cities of Del Rey Oaks, Monterey, and Sand City.

### **1.3 Purpose**

This Revised Archives Search Report (ASR) compiles information obtained through historical research at various archives and records holding facilities, interviews with individuals associated with the site or its operations, personal visits to the site, and current field investigations/sampling and removal actions performed by others. All efforts are directed towards determining types of munitions used at the site, possible disposal areas, and any unknown training areas. Information obtained during this process is to be used in developing recommendations for further actions at the site.

### **1.4 Scope**

The entire installation will be investigated through archives searches for the types, quantities, and probable locations of ordnance items abandoned by DOD prior to

disposal and reuse of installation properties. Information contained herein is based on the review of existing documents, interviews, observations, site specific geology, and descriptions of known or suspected contamination.

Statement concerning CWM addressed by Installation Restoration/Remediation Program. Notified by letter of any CWM discoveries in original ASR or resultant discoveries.

## **2.0 Previous Site Investigations**

The **Engineering Evaluation/Cost Analysis - Phase I for Former Fort Ord, Monterey County, California**, September 1997, was prepared by the U.S. Army Engineering and Support Center-Huntsville and Sacramento District Corps of Engineers.

The U.S. Army Corps of Engineers, Sacramento District, prepared the **Installation-Wide Multispecies Habitat Management Plan for Former Fort Ord, California**, April 1997.

The U.S. Army Corps of Engineers, Sacramento District, prepared the **Environmental Impact Statement, Fort Ord Disposal And Reuse**, June 1993, Volumes 1-5.

A report, **Installation Assessment of Fort Ord and its Subordinate Installations**, February 1983, was prepared by the U.S. Army Chemical Systems Laboratory for the U.S. Army Toxic and Hazardous Materials Agency. Other reports on coastal engineering, beach erosion, shore protection, seismic vulnerability, and water supply have been conducted by Sacramento District, Waterways Experiment Station, and Construction Engineering Research Laboratory.

A report, **Task Order 11 Enhanced Preliminary Assessment**, Fort Ord, California, was prepared by Weston, Inc for the U.S. Army Toxic and Hazardous Materials Agency in December 1990.

No other engineering or environmental study reports were used for this report other than the historical documents relating to the mission of the installation.

## **3.0 Site And Site Area Description**

### **3.1 Location**

Former Fort Ord is located along the Pacific Ocean in northern Monterey County, California, approximately 100 miles south of San Francisco, shown on figure 3-1. Former Fort Ord occupies approximately 28,000 acres adjacent to Monterey Bay (a national marine sanctuary) and the cities of Marina, Seaside, Sand City, Del Rey Oaks, and Monterey. The Southern Pacific Railroad and State Highway 1 (also known as State Route 1) cross the western section of Former Fort Ord, separating the beachfront from the majority of the installation. Former Fort Ord is bordered on the east by undeveloped land. Of the total Former Fort Ord acreage, 73% (approximately 20,000 acres) is in unincorporated Monterey County, 15% (approximately 4,100 acres) is within the Seaside city limits, and 12% (approximately 3,400 acres) is within the Marina city limits.

### **3.2 General History**

Former Fort Ord was established in 1917 when the government purchased 15,809 acres near what is now the East Garrison area. It was used as a maneuver area and field target range for the 11th Cavalry and the 76th Field Artillery, which were then stationed at the Presidio of Monterey. (Note: In 1903 the Presidio of Monterey was called Ord Barracks. By 1904 the name was changed to the Presidio of Monterey.) During summers the 30th Infantry Regiment from San Francisco used the reservation for maneuvers. In 1933 the reservation was designated Camp Ord and except for a well and caretaker's house in the center and a few bivouac sites, no improvements were made until 1938 when permanent buildings were constructed. In August 1940 Camp Ord was designated Fort Ord and the post was expanded to more than 20,000 acres. The 7th Infantry Division was the first major unit to occupy Fort Ord. During World War II, the post was a staging area for many fighting divisions and units. Following World War II the post was the home of the 4th Infantry Division which trained soldiers for the Korean conflict. In 1957 Fort Ord was designated United States Army Training Center, Infantry. During the early 1960's, Fritzsche Army Airfield (FAAF) was completed and became part of the Fort Ord complex. The 52nd Aviation Battalion, the 17th Aviation Company, and the 33rd Transportation Company (Light Helicopter) trained out of this airfield. The post continued as a center instructing basic and advanced infantrymen. In 1974 the training center was deactivated and the 7th Infantry Division occupied the installation. The 7th was converted to a light infantry division in 1983; light infantry division does not use heavy tanks, armor, or artillery. There were three major developed areas within Former Fort Ord: the Main Garrison, the East Garrison, and FAAF. Subinstallations of Former Fort Ord at one time included Fort Hunter Liggett, Camp Roberts, Fort Macarthur

(responsible for reserve training), and the Presidio of Monterey. (Locations in relation to Former Fort Ord shown on figure 3-2). Earlier maps from the 1930's show several camps located on the reservation. The names of these camps are Camp Pacific, Camp Huffman, and Camp Clayton. Also a Camp Gigling Reservoir was shown on a map, but the site of the Camp was not shown. These Camp names were researched when going through the archives. All historical maps are shown in Appendix????

### **3.3 Demographics of the area**

**3.3.1. Center of activity:** Former Fort Ord is located in the vicinity of Seaside, CA. This city has numerous centers of activity such as the Seaside High School, Laguna Grande Park, Metz Park, Oldemyer Service Center and the Pattula Swim Center. However, Former Fort Ord, when active, had a commissary, post exchange with branch stores, service stations, numerous shops, bank, hospital, tennis courts, baseball and softball fields, football stadium, three libraries and three theaters, picnic areas, Officers Club, Non-Commissioned Officers club, craft shops, rod and gun club, flying club and a golf course.

#### **3.3.2. Population density:**

City: Seaside	County: Monterey
Area: 3 sq.mi.	Area: 3,303 sq.mi.
POP: 38,901	POP: 355,660
PD: 12,967 persons per sq.mi.	PD: 107 persons per sq.mi.

Population and area are based on the U.S. Department of Commerce, Bureau of the Census, 1990 statistics, and telephone interviews.

**3.3.3. Type of businesses:** A review of both telephone interviews and County Business Patterns (1990) assisted in developing a business profile of the area. There are numerous businesses in the area. These businesses include light manufacturing and retail and service businesses.

**3.3.4. Type of industry:** See item #3.

**3.3.5. Type of housing:** Housing in the vicinity is composed of both multiple and single family housing.

**3.3.6. New development in the area:** New development of the area will be evident in the future when the base is completely deactivated. Each municipality surrounding Former Fort Ord is planning future land uses.

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**3.3.6. New development in the area:** New development of the area will be evident in the future when the base is completely deactivated. Each municipality surrounding Former Fort Ord is planning future land uses.

**3.3.7. Typical cross-section of population:** The percent of those under the age of 18 in Seaside, California, is 27%, over 65 years is 5.4%. The median age is 25. Approximately 44.6% of the population is white, 17.4% Hispanic, 23.5% black, 1.0% American Indian or Eskimo and 13.5% Asian or Pacific Islander. There are approximately 11,238 housing units with a median dollar value of \$150,100. The work force of Monterey County, California, is broken down into the following: manufacturing, 3.5%; non-manufacturing, 90.4%; agriculture, 2.8%; and other non-agriculture 3.3%.

## **4.0 Physical Characteristics of the Site**

### **4.1 Geology/physiography**

Former Fort Ord is located within the California Coast Ranges Section of the Pacific Border physiographic province. The Coast Ranges are characterized by a linear system of nearly parallel ranges. They are generally geosynclinal in structure, with subsequent folding and faulting in late Pliocene.

From the west, Monterey Bay is bordered by outcrops of Pleistocene and Recent coastal beach and dune deposits which are in turn bordered by Pleistocene stabilized dunes inland. The stabilized dunes cover roughly one-half the area of Former Fort Ord. The Aromas sandstone occasionally outcrops within the stabilized dunes area, as well as underlies the stabilized dunes. The Aromas sandstone is underlain by the Paso Robles Formation. Alluvial deposits occur on Toro Creek and sporadically throughout the area. See Figure 4-1, Surficial Geology and Fault Lines of Fort Ord.

The Paso Robles Formation and the Aromas sandstone have high potential erosion hazard. The Paso Robles and Aromas are even more susceptible to induced erosion under disturbed conditions. The Paso Robles is also prone to piping or internal, subsurface erosion tunnels open to the surface, and to landslides, as evidenced by both recent and geomorphically identifiable past landslides.

There are several inferred or concealed earthquake faults which either cross or are adjacent to Former Fort Ord. None show activity in the last 10,000 years, but the potential cannot be ruled out. The San Andreas fault, which has been historically active within the past 200 years, is within 25 miles of Former Fort Ord. The potential of earthquake damage from ground movement is moderate to very high, with the highest potential in the coastal dune zone. High to very high liquefaction potential exists on recent alluvial sediment along Toro Creek, and may exist in other small, localized areas. Landslide potential is present in the Aromas and Paso Robles formations as described above, and the shoreline dune cliffs.

The topography of Former Fort Ord is dome like; the center of the installation has the greatest elevation, while the boundaries are low-lying areas. The most notable topographical features are the coastal dunes and the steep slopes in the eastern portion of the installation, both of which have high erosion potential (U.S. Army Corps of Engineers, Sacramento District, 1993).

## **4.2 Soils**

Soils which formed on the Aromas formation and on the Paso Robles formation are highly susceptible to water erosion (see Figure 4-2). They are sandy, and drought-affected. Soils formed on the Aromas and the stabilized dunes have very high permeability.

In unvegetated areas, or areas under development, sand blows from the exposed soil surface. Wind erosion at a rate of up to 310 tons per acre per year continues until the source areas are stabilized and revegetated (U.S. Army Corps of Engineers, Sacramento District, 1993).

## **4.3 Hydrology**

### **4.3.1 Ground Water**

As stated in the Fort Ord Disposal and Reuse Final EIS:

For purposes of discussion, geologic conditions on Fort Ord can be divided into three general areas (Figure 4-3). Each area has distinct geologic and hydrologic characteristics.

The northwest part of Fort Ord (Area 1 in Figure 4-3) overlies a small part of the Salinas Valley groundwater basin, which contains several aquifers separated by aquicludes. Area 1 is covered with dune sand deposits that are largely unsaturated. The depth of the water table is typically about 100 feet. An extensive clay layer, known as the Salinas Valley Aquiclude, underlies the dune sand deposits in the Main Garrison area. Beneath the aquiclude is the 180-foot aquifer, which is the shallowest aquifer with substantial pumpage. The aquiclude is absent along a strip near the coast and in an area extending south from East Garrison. In these areas, recharge from the surface can percolate down to the 180-foot aquifer. Beneath the 180-foot aquifer are two deeper aquifer zones referred to as the 400-foot and 900-foot aquifers.

Historically, most pumpage for Fort Ord and Marina was from the 180-foot aquifer. Seawater began intruding into this aquifer as a result of the pumping, and early wells were replaced with wells that were deeper or farther inland. By the early 1980's, seawater had intruded about 2.5 miles into the 180-foot aquifer and 1.2 miles into the 400-foot aquifer in the vicinity of Marina. Around that time, Fort Ord drilled new wells into the 180-foot and 400-foot aquifers near East Garrison and Marina drilled three wells into the 900-foot aquifer.

The southwest part of Fort Ord (Area 2 in Figure 4-3) overlies the Seaside groundwater basin. This basin is structurally complex and divided into several subbasins by faults and folds in the underlying Monterey Shale formation. Fort Ord overlies most of the northern part of the basin and supplies a substantial amount of total recharge to the basin. Except at one shallow well near the shoreline, seawater intrusion has not affected wells in this basin. The existing amount of pumpage appears to be close to the safe yield of the basin.

The eastern part of Fort Ord (Area 3 in Figure 4-3) is hilly and lacks the surficial dune deposits that cover Areas 1 and 2. Because of relatively low infiltration rates and subsurface permeability, this area is not promising for groundwater development and probably does not contribute substantial amounts of groundwater inflow to the western part of Fort Ord.

On Figure 4-3, note areas of known groundwater contamination on Fort Ord - labeled A, B, and C.

U.S. Army Corps of Engineers, Sacramento District, Fort Ord Disposal and Reuse Environmental Impact Statement, Final, June 1993, Sacramento, CA.

#### **4.4 Weather**

The sea keeps the temperature of the Monterey Peninsula moderate at all seasons. The days are never extremely hot nor extremely cold. The nights are always cool. The average temperature varies less than ten degrees the year round, ranging usually from about 53 degrees to 70 degrees. Rainfall is heaviest from November to February and averages 17 inches a year. Throughout the spring and summer fog drifts in from the Pacific to cool the coastal area.

#### **4.5 Species and Habitats**

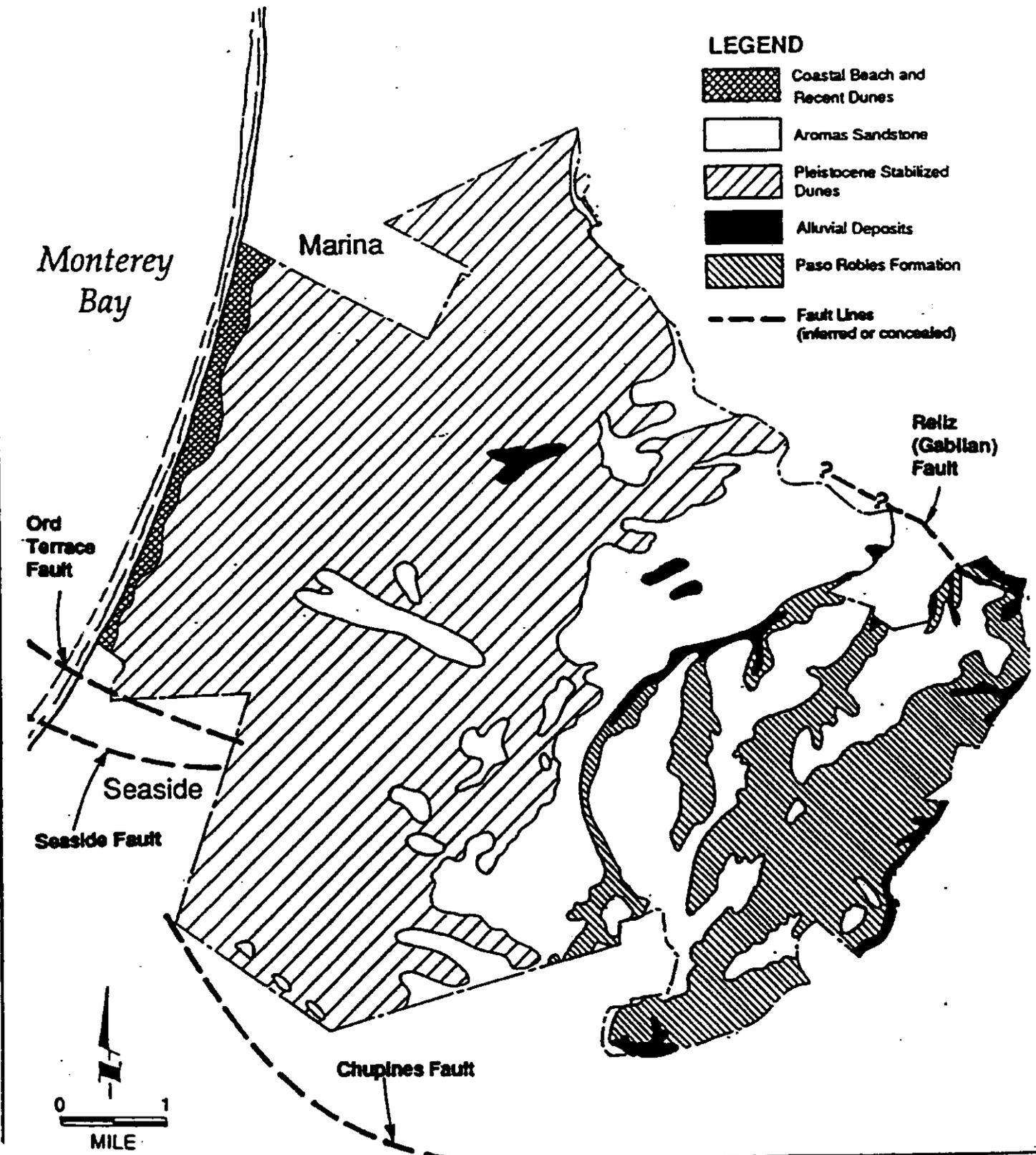
The information provided for Former Fort Ord has been compiled from the Installation-Wide Multispecies Habitat Management Plan for Former Fort Ord, California, April, 1997.

Wildlife and plant species and habitats addressed in the 1997 Habitat Management Plan (HMP) are the same as those included in the 1994.

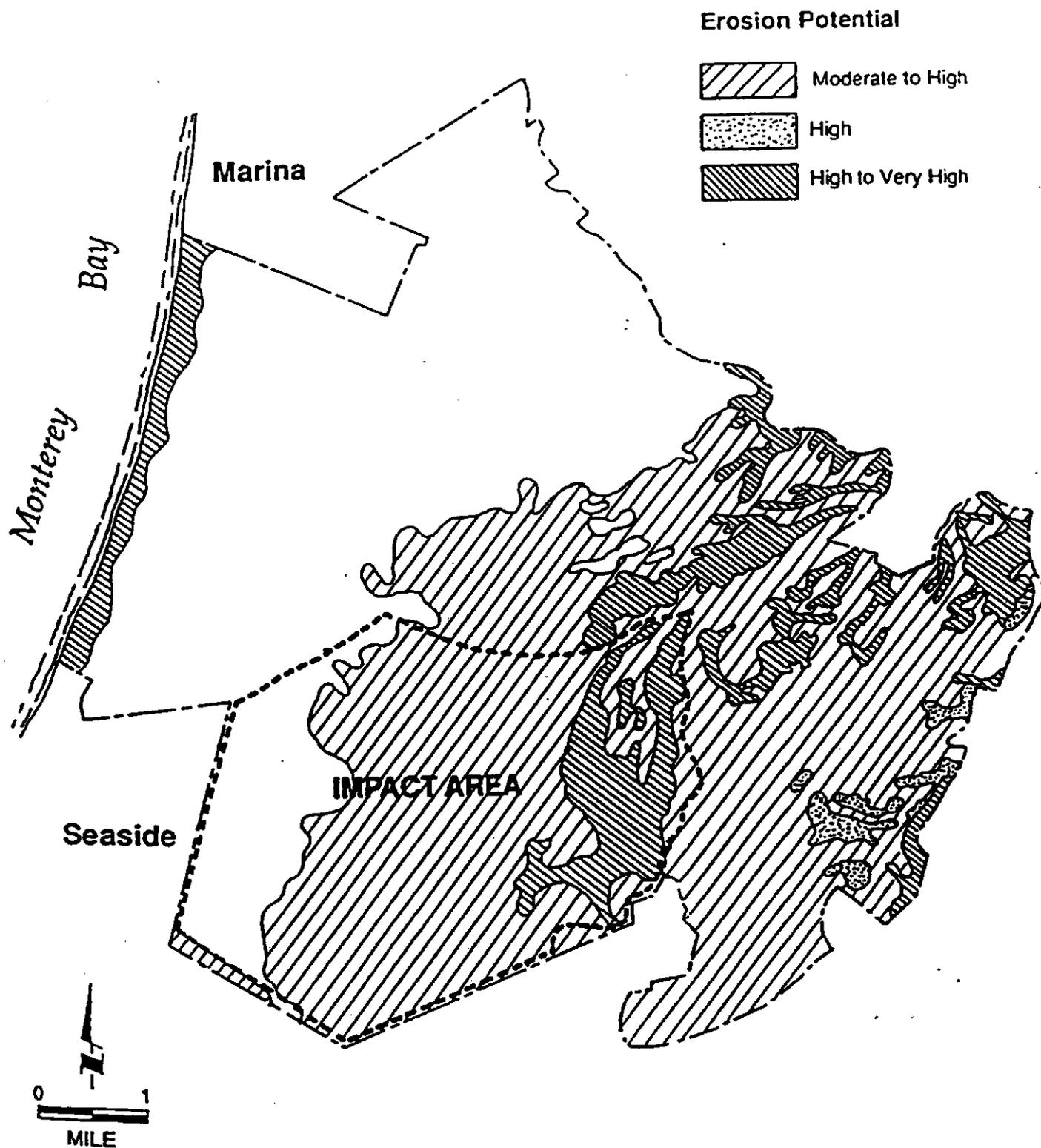
Since publication of the 1994 Habitat Management Plan (HMP), the legal status of several species has changed. On February 28, 1996, the Department of the Interior published in the Federal Register (FR) the Department of the Interior Endangered and Threatened Species, Plant and Animal Taxa; Proposed Rule (61 FR 7596 February 28, 1996). Under the rule, the Category 1 and 2 classifications for federal

HMP species occurring in coastal strand and dune scrub are *Smith's blue butterfly*, *sand gilia*, *Monterey spineflower*, *robust spineflower*, *black legless lizard*, and *coast wallflower*. *Yadon's piperia* may occur in these habitats.

Additional information may be found in the Environmental Impact Statement, Fort Ord Disposal And Reuse, June 1993, Sacramento District, and the Installation-Wide Multispecies Habitat Management Plan for Former Fort Ord, California, April, 1997.

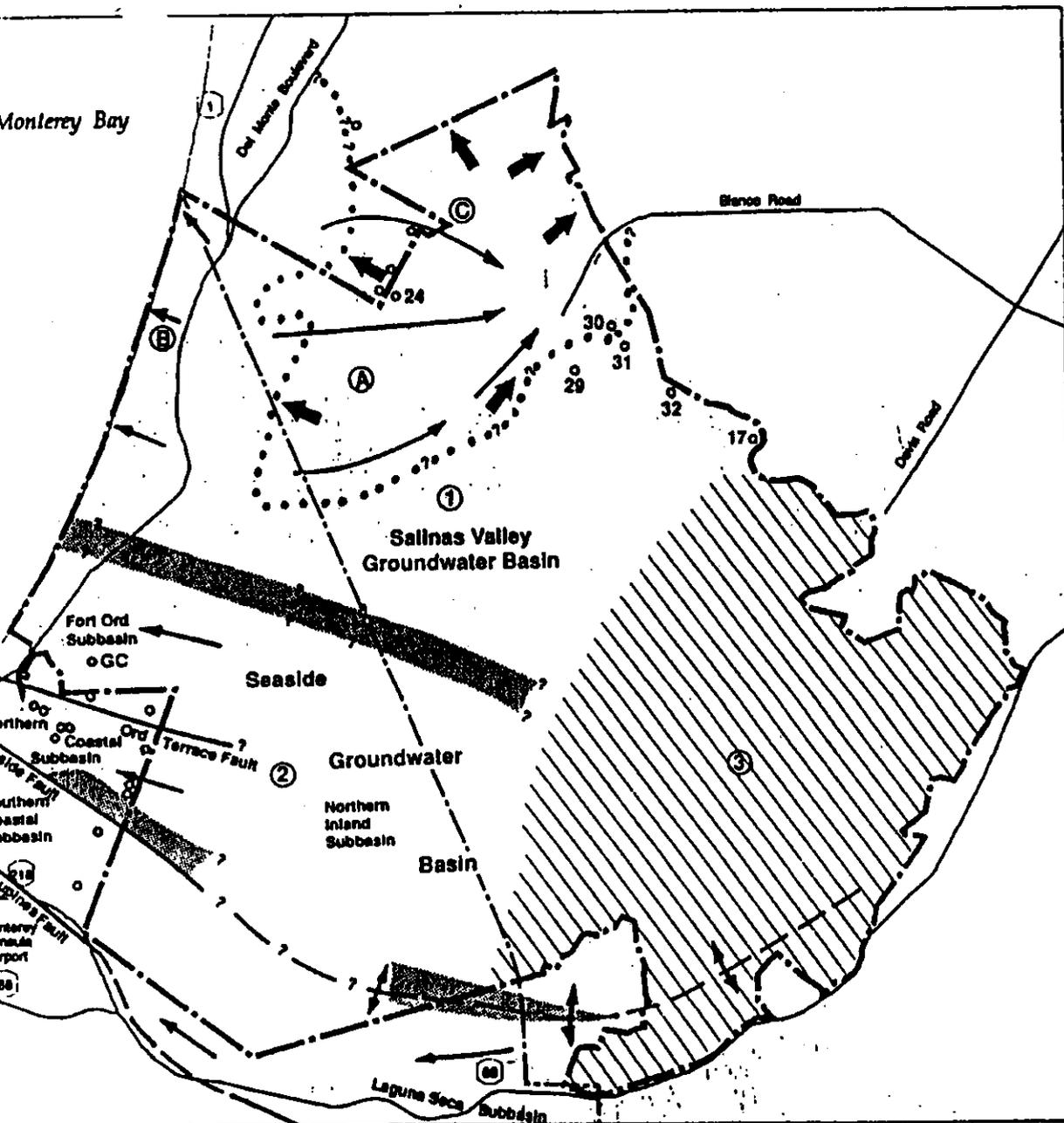


**Figure 4-1: Surficial Geology and Fault Lines of Former Fort Ord**  
 Source: U.S. Army Corps of Engineers, Sacramento District, 1993



**Figure 4-2: Water and Coastal Erosion Potential at Former Fort Ord**  
 Source: U.S. Army Corps of Engineers, Sacramento District, 1993

Monterey Bay



--- Monterey Peninsula Water Management District jurisdiction boundary

— Fort Ord boundary

U  
D  
? — Fault. Dashed where approximately located. Queried where unknown. D=Down; U=up.

↕ ? — Anticline. Dashed where approximately located. Queried where unknown.

• • ? • • Boundary of Salinas Valley Aquiclude Queried where unknown.

Direction of groundwater flow

➔ "A" aquifer.

➔ 180-foot and 400-foot aquifers in Area 1. Paso Robles and Santa Margarita Formations in Area 2.

■ Buried bedrock ridge or anticline that forms a barrier to groundwater flow. Queried where unknown.

① Hydrogeologic area within Fort Ord. Area 3 shaded.

Locations of known groundwater contamination on Fort Ord

(A) Main landfill

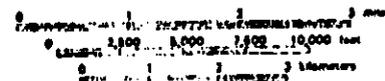
(B) Main Garrison sewage treatment plant

(C) Fritzsche Army Airfield burn pit

○ Municipal supply wells (well number indicated for Fort Ord wells)

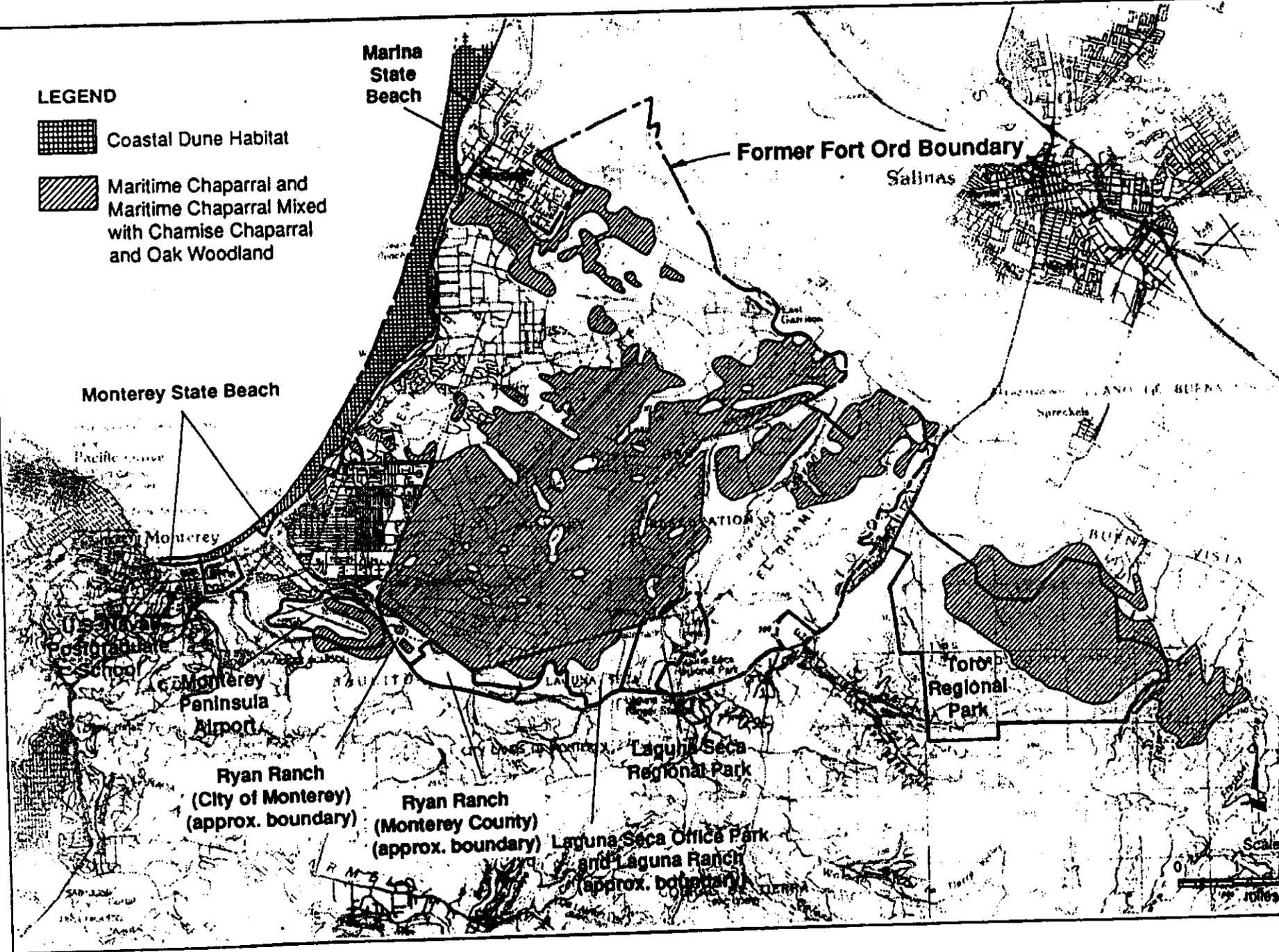
Source: Harding Lawson Associates pers. comm.

Scale 1:60,000



**LEGEND**

-  Coastal Dune Habitat
-  Maritime Chaparral and Maritime Chaparral Mixed with Chamise Chaparral and Oak Woodland



## **5.0 Real Estate**

### **5.1 Ownership**

On 4 August 1917, the government purchased 15,809.5 acres from the David Jacks Corporation for the sum of \$162,095.00. The reservation was expanded to 20,000 acres in 1940. During the following two years, the government acquired additional land. The people of Salinas and the Monterey Peninsula bought 274 acres of sand dunes just south of the city of Marina and donated them to the Army for use as firing ranges. The lands for the Fritzsche Army Air Field (FAAF) were added to the reservation in 1960. This brought the total acreage to 28,953.58 acres.

A detailed real estate survey is currently being performed by the Sacramento District. Further information on real estate is also contained in the Fort Ord Environmental Impact Statement.

## **6.0 PASI Report and Site Specific History Update**

The following sites are shown on the Known and Suspected OE Site Map in Appendix B. Many of the sites have military grid coordinates taken from historical base maps (Appendix D). Additionally, many of the latter sites have GPS coordinates based on site visits that used a hand-held Trimble/Scout Navigational GPS using North American Datum (NAD) 1929. The generic Training Sites (TS) 1-25 are listed under OE Site 27. A second map called OE Sites (requiring further investigation or documentation) included in Appendix B, shows only previously remediated sites and sites that need further investigation/removal actions. Sites that require no action, based on interview information and OE specialist inspections, have been excluded from this map. In determining which sites required no further action, if small arms were alleged to have been used and the site inspection confirmed that, then the site needed no further action or surface clearance only. If the site was alleged to have been used for anything larger than small arms, but the site inspection discovered only small arms, the site would still be recommended for further investigation or sampling.

### **6.1 Site OE 1, Flame Thrower Range (Vicinity FR 069591) (28.67 acres)**

**Description:** This area was identified during archival investigations. A flame thrower range appears in this vicinity on a historical map, Map of Fort Ord Training Areas & Facilities, 10 January 1958, and also appears on a 15 July 1957 map of the same name, slightly to the east of this vicinity. The area shown on the 1958 map is suspected to have been located at the southern end of an existing fenced drainage area near Patton Housing Area. The area shown on the 1957 map is suspected to have been located south of Patton Elementary School and partially within Patton Housing Area.

**Investigation History:** The Army's OE contractor HFA sampled an area within the western end of the Patton Housing Area between 11 January 1994 and 24 February 1994. Additionally, 4 grids were placed and sampled between Sites 1 and 6. Five M1 Practice Mines were discovered and removed during that sampling activity. The Phase I EE/CA expanded the site boundary and recommended that confirmatory sampling be conducted.

**Recommendation:** Confirmatory sampling should be conducted in accordance with the Phase I EE/CA recommendation.

### **6.2 Site OE 2, Chemical Training Area (Vicinity FR 075575 to 078577; area between intersection of Fifth and Eighth Streets and intersection of Imjin and Eighth) (33.49 acres)**

Description: This area was identified during archival investigations. This area was identified as a chemical training area by Mr. Maurice Macbride, who was a military dependent during 1933-1947. He stated he remembered watching soldiers training with protective masks on. He stated that later the area was used for landmine warfare training.

Mr. Lee Stickler, who was in the Field Artillery on Fort Ord in 1940-1941, and later served as the Range Control Officer from 1971-1989, stated that the area was a horse corral when he was at Fort Ord. This is confirmed by a Master Plan of Fort Ord map from 1943-1946.

Two point three six inch practice rocket (bazooka) rounds were discovered on the hillside to the east of Pete's Pond. This area is adjacent to the 5th Avenue Cutoff and is also known as the Pete's Pond Extension. Chunks of concrete, that may have been targets, were observed in that area during the ASR site walk.

Investigation History: Several 2.36" practice rockets were removed from the site before the base closed. Additionally, 2.36" practice rockets were discovered during the Hazardous, Toxic, & Radioactive Waste (HTRW) excavation of RI/FS Site 16 (specifically the Pete's Pond Extension on the side of the hill near the DOL Maintenance Yard). An additional 340 2.36" practice rockets were discovered in burial pits during excavations. All rockets were disposed of by detonation. The following lists the current discoveries:

4-3-97	(1) 2.36" Practice Rocket
4-10-97	(202) 2.36" Practice Rockets
4-30-97	(340) 2.36" Practice Rockets

The Army's OE contractor, HFA, sampled 20 grids in the area between 13 January 1994 and 24 February 1994. Two expended/inert OE items were discovered during sampling, (practice grenade and practice bomb). No live OE items were discovered.

**Recommendation: The Pete's Pond Landfill, as this site is known, (also called RI/FS Site 16) has been excavated and removed. This site is recommended as a NOFA in accordance with Phase I EE/CA.**

### 6.3 Site OE 3, Range 49, Old Demolition Area, (Vicinity ER 088554) (10 acres)

Description: The site served as a landmine warfare, anti-armor, and Molotov Cocktail training area. Interviews evidenced that over the years a whole host of

munitions were destroyed. The only visible remains of this range were two blackened areas where armored vehicles sat as targets for Molotov Cocktails. The exact location of the demolition range could not be pinpointed.

**Investigation History:** During 1993-1994 the Army's OE contractor, HFA, conducted sampling at 23 grids. Thirty-four AT Mines, Training , Inert and 153 inert 81mm Practice Mortar, and miscellaneous firing devices have been found. Further studies of historical photos and maps show that the safe disposal area (SDA) is slightly north of Range 49. It was originally thought that "SDA" stood for Safe Disposal Area. At this time SDA is believed to be Squad Defense Area. This entire area is also included within Site OE 54 which has been identified by Mr. Fred Stephani, former Fort Ord Fire Chief, as having several uses such as grenade range, firing point for launched projectiles and artillery.

**Recommendation:** A removal action is recommended in accordance with Phase I EE/CA.

6.4 Site OE 4, CBR Training Areas, (Vicinity 4A-FR 082557 (6.31 acres), 4B-091552 (7.05 acres), 4C-096568 (7 acres) and 4D-082545)(7 acres)

**Description:** These facilities appear on historical maps (Fort Ord Training Areas & Facilities) 15 July 1957 and 10 January 1958. There is a gas chamber where soldiers tested their masks for leaks at Site 4B.

**Investigation History:** During 1993-1994 the Army's OE contractor, HFA, conducted sampling at these sites. Six grids were reportedly sampled within the site and no live OE was found. The site boundary has recently been surveyed. The sampling at Site 4A found ten small arms items, one inert training Grenade Fuze, and one inert Law, Subcaliber. Site 4B had six grids sampled by HFA which found 58 live small arms items, one live practice 40mm cartridge, and two expended OE items. HFA sampled 5 of 6 grids at Site 4C which has now been subsumed into the larger CSU Footprint removal action. A removal action was accomplished at 100% of the site when the CSU Footprint removal action was done. The fourth site, now called Site 4D is subsumed into OE Site 40, the Parker Flats Gas House. Sampling was not conducted at this site by HFA. The Army's OE Contractor, CMS, conducted sampling.???

**Recommendation:** Further investigation and confirmatory sampling in accordance with Phase I EE/CA is recommended for site 4A. Site 4B has completed a removal action in accordance with Phase I EE/CA. In accordance with Phase I EE/CA Site 4C has a 100% removal action completed as part of the CSU Footprint. Site 4D should be investigated and sampled in accordance with OE Site 40.

6.5 Site OE 5, South of East Garrison, (Vicinity FR 133565) (28 acres)

**Description:** A 3.5" rocket motor was discovered south of East Garrison. It was discovered in the branches of a live oak tree. No known range is or was laid out in this area for firing these rockets. According to Mr. Roy Durham, the former range control officer "a tank subcaliber range was planned but never constructed."

**Investigation History:** In 1993-1994 the Army's OE contractor, HFA, sampled 15 grids (13%) at this site to the depth of 3 feet and did not find evidence of OE.

**Recommendation:** No further action is recommended for this site.

6.6 Site OE 6, Mine and Booby-Trap Training Area, (Vicinity FR 067595) (2.55 acres)

**Description:** This site is located in the Patton Housing area and appears on historical maps (Fort Ord Training Areas & Facilities), 1957-1958.

**Investigation History:** It is possible that practice landmines and booby-traps may have been left behind, or never uncovered. The Army's OE contractor, HFA, completed 100% sampling in this site. One live small arms cartridge and one inert AT, M1 Mine were discovered. In April 1997, CMS resurveyed the Site 6 grid and site boundaries using current GPS technology. Survey data currently reflects that all grids were placed within the site.

**Recommendation:** No further action is recommended in accordance with the Phase I EE/CA.

6.7 Site OE 7, Mine and Booby-Trap Training Areas, (Vicinity FR 091570) (4 acres)

**Description:** This site appears on historical maps (Fort Ord Training Areas & Facilities), 1957-1958. This site is within the CSU Footprint.

**Investigation History:** Initially, 7 grids were sampled by the Army's OE contractor HFA. Live small arms were found, 46 live Mine Activators, and 3 inert AT Training Mines. A removal action was accomplished at 100% of the site.

**Recommendation:** A removal action has been completed as part of the CSU Footprint removal action.

#### 6.8 Site OE 8, Mine and Booby-Trap Training Areas, (Vicinity FR 097568) (2 acres)

**Description:** This site appears on historical maps (Fort Ord Training Areas & Facilities), 1957-1958.

**Investigation History:** This site was 100% sampled by the Army's OE contractor, HFA, (1993-1994). Live small arms (6,362) and 502 live OE items were found. A removal action was accomplished by HFA as part of the CSU Footprint removal action.

**Recommendation:** A removal has been completed as part of the CSU Footprint removal action.

#### 6.9 Site OE 9, Mine and Booby-Trap Training Areas, (Vicinity FR 108544) (2 acres)

**Description:** This site appears on historical maps (Fort Ord Training Areas & Facilities), 1957-1958.

**Investigation History:** The Army's OE contractor, HFA, sampled the entire site (1993-1994). Four expended items of OE were found, a 57mm practice cartridge case, a 40mm expended signal cartridge, a Powder Time Train (PTT) projectile fuze, and a tail Rifle Grenade.

**Recommendation:** Confirmatory sampling should be performed at this site in accordance with the Phase I EE/CA.

#### 6.10 Site OE 10, Leary Hill & Elliot Hill Region (506 acres)

**Description:** This area includes maneuver areas historically known as training areas K2 and K3 (Fort Ord Training Areas & Facilities). During walk through, of this area by base personnel, 81mm HE and 60mm illumination mortar rounds were observed on the surface. Maps from 1968 and 1972 show an EOD range called Range 50 (FR 109542) in this same area. Because of the approximate size of this site (506 acres), this site has been divided into two areas, Site 10A (Leary Hill Region, 258 acres) and Site 10B (Elliot Hill Region, 248 acres). For purposes of further discussion they will be referred to this way. Additionally both areas are referred to in a Fire Department ScrapBook Firebreak Map dated 1960, as "area of unusual hazard and possible live dud area".

**Investigation History:** 10A: This area subsumes the training site, TS-9 (OE 27). TS-9 is identified as 1 of 25 training sites shown on a historical map (Beardsley). The Army's OE contractor UXB conducted a removal action in 1994-1995 of 14 acres (47 grids) designated as firebreaks. These grids received removals

to a depth of 4 feet. A total of 5,018 live small arms, 5 live OE, and 11 expended OE were discovered by UXB. Another Army Contractor, CMS, conducted additional sampling (115 grids) in 1995-1997. A total of 6,745 live small arms, 61 live OE, and 18 expended OE items were found by CMS. The Phase I EE/CA, Appendix B, documents the OE items removed.

**Recommendation 10A: Conduct removal actions in accordance with the Phase I EE/CA.**

**Investigation History: 10B.** This site was additionally identified as a result of interviews with the former Fort Ord fire chief. He recalled that in the 1940s and 1950s, soldiers were seen firing shoulder-launched projectiles and rifle grenades toward cliff faces and in canyons at the site. A 35 grid removal action consisting of access roads leading to OE Site 19 has been conducted by the Army's OE contractor UXB in this area. A total of 771 small arms were found during this action. This area also subsumes Site TS-10.

**Recommendation 10B: Sampling activities are currently being conducted at this site. Further recommendations for this site will be based on this sampling effort.**

#### **6.11 Site OE 11, Demolition Training Area, (Vicinity FR 130548) (5-15 acres)**

**Description:** Identified by SFC Grimes, a former NCOIC of Range Control, who stated the area was an old EOD range. The exact location was unknown. He also stated that large portions of the area were burned off several years ago. During a walk through, pieces of 40mm training practice tracers were spotted. A 1946 Historic Map (Master Plan Fort Ord) also shows a live hand grenade training range in this expanded site. Additionally, a 15 July 1957 Fort Ord Training Areas & Facilities map shows a Frag Zone and an Engineer Training Area "C" in this same area.

**Investigation History:** This area has been expanded because of findings of MK2 hand grenades in eroded gullies as far as 300 meters north of the site boundary. Sampling for this site was scheduled by the Army's OE contractor HFA, however, the sampling was deferred by the CEHND Safety Specialist when a live MK2 Hand Grenade was found during survey gridding. The site was littered with fragments of MK2 Hand Grenades. In 1994-1995 UXB brush cleared the area, but no intrusive work was initiated.

**Recommendation: Conduct further sampling and removal actions.**

**6.12 Site OE 12, Picnic Canyon, (Vicinity FR 133538 south to 133530) (28 acres)**

**Description:** This area has been identified based upon reports of base personnel finding hand grenades, 37mm gun, and 40mm anti-aircraft projectiles.

**Investigation History:** During 1993-1994 the Army's OE contractor HFA located 12 40mm training practice (TP) cartridges in this site. There is no other mention of this site in the HFA After-Action report. In 1994-1995 the Army's OE contractor UXB conducted random sampling (20 grids) to a depth of 4 feet. Every grid sampled was documented as containing OE. A total of 6,960 live small arms, 4 live OE items, 1 pound of pyrotechnic compound, and 92 expended OE items were discovered. The Phase I EE/CA, Appendix B, Table B-1 provides a complete list of the items found. According to the interviews the hills in this canyon were firing points and target areas for mortar, rifle grenades, and shoulder launched projectiles in the 1940s, and 1950s. Helicopters also fired weapons in this canyon. Also included in this site are the hilltop at Perry Ridge, and what used to be known as Base Camp Alfa--POW Training Area. As a result of an interview with Fred Stephani, this adjacent area was inspected by an EOD specialist. During site sampling only expended blank small arms munitions and a 40mm practice grenade were located. No HE ordnance was discovered. No additional ordnance or munitions were found. Reference Appendix C for RAC sheet.

**Recommendation:** Conduct removal action in accordance with Phase I EE/CA.

**6.13 Site OE 13, Practice Mortar Ranges, (Vicinity Grid Square 13A-FR 0958 (56 acres), and 13B-FR 087563 to 095561) (225-251 acres)**

**Description:** These ranges were identified as mortar practice ranges during the 1940's and 1950's. (Shown on historical maps [Fort Ord Training Areas & Facilities] 15 July 1957 and 10 January 1958.) They are believed to have used practice ammunition and sabot trainers. For purposes of further discussion, this site is subdivided into 13A-FR0958 and 13B-FR087563.

**Investigation History 13A:** The Army's OE contractor HFA conducted sampling of 20 grids in this site. No OE was located during sampling operations. Additionally a large part of this site called Area A (former Fort Ord Landfill) was excavated.

**Recommendation 13A:** Further confirmatory sampling of the area should be performed in accordance with the Phase I EE/CA.

**Investigation History 13B:** In 1993-1994 the Army's OE contractor HFA initially sampled 57 grids. A total of 1,482 live small arms, 591 live OE items, and 175 expended OE items were discovered. A removal action was accomplished covering the northern one-third of the site by HFA as part of the CSU Footprint removal action (Reference Appendix B EE/CA). In 1994-1995 the site was surveyed and may have had brush clearing and marking done by UXB. No intrusive work was done. On 11 March 1997, while the Army's OE contractor CMS was conducting a Time Critical Removal Action (TCRA) in the southern portion of the site, two chemical agent identification sets (CAIS) were discovered and removed. All the contents of each set were found intact.

Site OE 13C is the wedge between the CSU footprint and 13B. It is shown as such to reflect final accurate survey data for this location, and is subsumed by the CSU footprint.

**Recommendation 13B: Removal action is in progress.**

#### **6.14 Site OE 14, Pilarcitos Canyon & Lookout Ridge, (Vicinity Grid Squares FR 1250 & 1251)**

**Description:** Based on interviews, this site was suspected of containing 7" and 8" naval gun rounds, that overshot the impact area. A 1957 map (Fort Ord Training Areas & Facilities) shows a mortar position in this area; a 1956 map shows a subcaliber artillery training area P-5 in this same area. According to an interview with Mr. Roy Durham, former Range Control Officer, Range P-5 was used from approximately 1972 through 1992 for subcaliber artillery and mortar practice. For purposes of this report, this site is divided into five subsites 14A through 14E:

**14A - Lookout Ridge II (LOR 2) (166 acres).**

**Investigation History 14A:** The Army's OE contractor HFA conducted a removal action in June 1994 to a depth of 3 feet to support the proposed Laguna Seca Raceway parking area. They established site boundaries for 50 acres (199 grids). They located one 37mm projectile with base fuze, detonated in place. The Army's OE contractor UXB recorded LOR2 as containing 193 acres and 840 grids, of which 10% were randomly sampled to a depth of 4 feet. They discovered 404 live small arms and 43 expended OE items. A total of 29 live OE items were found. 22mm subcaliber cartridges were found in a localized area on the northern boundary of the site. Several live items of OE were found on the surface within the northern one-third of this site.

**Recommendation 14A: This area is currently undergoing removal actions.**

14B-Approximately 469 acres north of Skyline Road and east of Barloy Canyon Road.

Investigation History 14B: This area had 2043 total 100 foot square grids, of which 5% (109 grids) were cleared to a depth of four feet. A total of 447 OE items were recovered, 404 of which were small arms. Sampling operations were halted on August 17, 1995. These items are listed in the Final Report for Ordnance and Explosive Removal Action, Site 14, November 1, 1995 submitted by UXB International Inc.

**Recommendation 14B: Further investigation is recommended for this site.**

14C - 14SE (27 acres)

Investigation History 14C: The Army's OE contractor UXB performed sampling of 15 grids of 118 100'x100' grids to a depth of 4 feet in 1995. A total of 129 small arm blanks (.30 cal) and 2 inert OE items (hand smoke grenade, rifle smoke grenade, and 1/10th pound of pyrotechnic compound were discovered.

**Recommendation 14C: Conduct surface removal in accordance with Phase I EE/CA.**

14D - 14 West (Approximately 85 acres)

Investigation History 14D: Includes an unidentified firing point listed as Site OE 25 and OE 26 hilltop within P-5 as well as Range P-5 area.

**Recommendation 14D: Further site investigation is recommended.**

14E-Site 14 East approximately 83 acres, east of Lookout Ridge Road.

Investigation History 14E: The Army's OE contractor CMS performed a sampling/removal action at this site from 1995 through July 1996. These actions included a 100% search and investigation of forty-five 100'x100' grids, which were randomly distributed throughout Site 14E. Specific activities included brush and vegetation removal, a surface/subsurface search of the operating area to locate OE contamination, and disposal of all UXO and OE related materials. Not all areas of site 14E were sampled. Approximately 4,358 small arms cartridge blanks were recovered and 20 OE items were recovered. These items are listed in the After Action Report-Site 14 East, Former Fort Ord, CA, February 12, 1997.

**Recommendation 14E: Additional sampling/removal actions of the remaining areas of this site should be performed.**

**6.15 Site OE 15, Impact Area, (Inland Impact Area ) (Multi Range Area) (7500+ acres)**

**Description:** This tract of land has been used for a wide variety of weapons firing. The Multi Range Area (MRA) consists of approximately 8,000 acres in the southwestern portion of the former Fort Ord. The MRA is bordered by Eucalyptus Road to the north, Barloy Canyon Road to the east, South Boundary Road to the south, and North-South Road to the west. Five known or suspected previously identified OE sites are present in the MRA: Site OE-28 (MOUT Site); OE-30 (Laguna Seca Turn 11 [LS T11]); OE-35 (Former Fort Ord Range Control [FRC]; OE-47 (Wolf Hill); and Site OE-15 (which encompasses the remainder of the MRA).

For reporting purposes, the MRA has been divided into four areas (MRA Areas A through D) based on the expected concentration of OE. These areas have been delineated using information gathered from interviews with the former Fort Ord Range Control Officer, various training range Standard Operating Procedures (SOP) documents, visual observations, and a field map of range forms and target locations prior to base closure provided by Fort Ord Range Control.

**Description 15A:** This area is identified only as small arm ranges in the MRA. Ranges in this area were 18, 19, and 21.

**Investigation History:** Reference HLA RI Site 39 investigation.

**Recommendation 15A: Continue investigation and sampling.**

**Description 15B:** This is in the outer boundary of the MRA, behind the firing points of ranges and the roadways, encompassing the MRA and between the ranges in the safety buffer zones. Range Control records show various ordnance usage on the ranges in the adjacent firing ranges.

**Investigation History:** Reference HLA Site RI 39 investigation.

**Recommendation 15B: Continue investigation and sampling.**

**Description 15C:** This is in the middle portion of Site OE-15. It is located downrange of the firing points but outside of the high density OE areas. These ranges are believed to contain sporadic- to high-density OE.

**Investigation History:** Reference HLA RI Site 39 investigation.

**Recommendation 15C: Further investigation is recommended.**

Description 15D: This is the high-density OE area of Site OE-15. Many types of munitions have impacted into this area, mainly around the targets scattered throughout Site OE-15.

Investigation History: Reference HLA Site RI 39 investigation.

**Recommendation 15D: Further investigation is recommended.**

**6.16 Site OE 16, 2.36" Rocket Moving Target Range, (Vicinity FR 094538 to 100536) (50 acres)**

Description: This area was saturated with 2.36" rockets, both HEAT and practice. There was a narrow-gauge railroad track where moving targets operated. According to Mr. Roy Durham, he stated "Over 1000 rockets had already been destroyed and about 400-500 were HEAT warheads." During a terrain walk, nearly a dozen rocket motors and components could still be seen within a small area. Training Site TS-8 is included in this site.

Investigation History: The Army's OE contractor HFA was scheduled to sample the site, and was in the gridding process, when several OE items, including an MK2 hand grenade, 4 rifle grenades, and 9 empty Illumination flare signals were found.

**Recommendation: Complete sampling and removal actions.**

**6.17 Site OE 17, Anti-tank (AT) Practice Mine Area, (Vicinity FR 155525, near Bldg. T-3992) (8.8 acres)**

Description: According to interviews in the early 1960's this canyon had a firing point and target area for shoulder launched projectiles. The projectiles were fired from just east of the pond at a mound of dirt, covered with brush, in a westerly direction. This area was used for land mine training in the late 1960's. This area is adjacent to Training Site TS-19.

SFC Grimes stated that he had been shown an inert training anti-tank (AT) mine by an EOD sergeant who pulled it out of the ground in this area. A brief walk through showed no sign of where this type of training took place.

Investigation History: This area has been investigated by an EOD Safety Specialist who discovered two AT mines, inert at FR 161528. The Army's OE contractor UXB conducted random sampling of 6 grids (15%). They discovered 94

small arms items and 2 expended/inert items. See Appendix B of Phase I EE/CA for the list of the items.

**Recommendation: No further action is recommended in accordance with Phase I EE/CA.**

**6.18 Site OE 18, 100lb Bomb, (Vicinity FR 090567, in the confidence course area) (15 acres)**

**Description:** In the 1970's this area was a minefield practice area used to teach trainees methods for locating landmines (mine and booby-trap area #1). There is an obstacle course in the area. A map made by Sergeant Beardsley, an EOD NCO stationed at Fort Ord for many years, shows a 100 lb. bomb found in this area. A 1993 EOD incident report shows that the bomb was an unfuzed concrete-filled training device, and that three practice mines and a parachute flare were also found. This site has been subsumed into Site OE-31 CSU Footprint.

**Investigation History:** Fourteen grids were sampled by the Army's OE contractor HFA in 1993-1994. A removal action was later accomplished by HFA as part of the larger CSU Footprint removal action. No other bombs were found.

**Recommendation: Refer to Site OE-31.**

**6.19 Site OE 19, Rifle Grenade Range, (Vicinity FR 127549, southern slope of the firing point at the top of the hill) (24 acres)**

**Description:** A terrain walk uncovered what is believed to be a rifle grenade range. Fragments were found surrounding a target pit on the southern slope of the firing point (FP). Also found were jagged pieces of metal from 55-gallon drums. The area might have been used for flame field expedient (Fougas) training.

**Investigation History:** A site investigation is currently in progress. The area has been expanded due to sampling in an adjacent area that discovered a rifle grenade. This area also includes firing point FP3. A live HE rifle grenade was found during gridding in 1994 by the Army's OE contractor HFA. Access roads leading to this site underwent a removal action by UXB during 1994-1995 and are documented in the UXB Site 19 After Action report. These roads actually lie in Site OE10B. Twelve, randomly located, 100 ft x 100 ft grids were sampled during June and July 1996.

**Recommendation: Conduct further sampling and removal action at this site in accordance with Phase I EE/CA.**

**6.20 Site OE 20, Recoilless Rifle Training Range. (Vicinity FR 059559, north of Gigling Road) (3.5 acres)**

**Description:** This site was noted after reviewing a historic map of Fort Ord Training Areas and Facilities, 1957. A site visit showed no evidence of this type of training to have taken place. The 1957 map is the only reference to this type of training in this area.

**Investigation History:** In 1993-1994, the Army's OE contractor HFA conducted sampling of 12 grids down range from Site 20. Approximately 43% of the grids were sampled and no OE or related material was found.

**Recommendation:** No further action is recommended in accordance with Phase I EE/CA.

**6.21 Site OE 21, Mudhen Lake. (Vicinity FR 135540, south of East Garrison) (15.5 acres)**

**Description:** The fact that this area is a lake forces consideration as a possible dumping ground. The site includes Mudhen Lake and has been divided previously into an 8.75 acre eastern area and a 6.75 acre western area, with a dike/bridge dividing the two subsites.

**Investigation History:** The eastern area was subjected to a 12% random sampling to a depth of 4 feet by UXB in 1994-1995. Sixty-four live OE items were found in the site. A removal action was accomplished in 100% of the western portion of the site (36 grids) to a depth of 4 feet. The removal action was only partially QC inspected due to heavy flooding. A total of 3,625 live small arms, 64 live OE, and 34 expended OE items were discovered. See Appendix B of the Phase I EE/CA for listing of items.

**Recommendation:** Complete quality assurance activities and removals in accordance with the Phase I EE/CA.

**6.22 Site OE 22, Beach Ranges, Beachfront Area (952 acres)**

**Description:** These ranges are known to be small arms ranges along the beachfront.

**Investigation History:** A walk through of this area showed many lead bullets covering the sand dunes. There is also an ammunition storage area located on the beach near Range 3. Amphibious training took place at Fort Ord in the early 1940's, which would have occurred at the beach. Also, a 1947 map shows a much

larger range fan extending from the coast out over the ocean than present day maps. Fifteen acres (60 grids) were sampled by the Army's OE contractor HFA in 1993-1994. Twelve grids were placed in the vicinity of the old Ammunition Supply Point (ASP), and 12 grids were placed in the old company temporary storage area near the old ASP. The remaining grids were placed throughout the remainder of the site in locations of high probability for locating discarded OE. No live OE was located during sampling. Six expended OE items and 239 live small arms were discovered. The Army's OE contractor CMS sampled 41 grids (1997) north and south of Stilwell Hall (19.3 acres). No live OE was discovered during this sampling.

**Recommendation: No further action for this site in accordance with Phase I EE/CA.**

#### 6.23 Site OE 23, Engineer Training Area, Field Expedient Area (approximately 15 acres)

**Description:** This site may have been a quarry for training near the Crescent Bluff Area. Physical evidence exists that this may also have been an amphibious vehicle test area.

**Investigation History:** According to an interview with Mr. Fred Stephani, former Fire Chief, the concrete pit was an amphibious training area used to show that the vehicle engine would continue running under water. Small ammunition cartridge cases and pieces of an M49 trip flare were noted at the site. Additional interviews stated that at the end of Bluffs road just before Barloy Canyon Road rifle grenades were fired up the canyon towards what is now the Ammo Supply Point. This occurred from the 1950's until just before the 7th ID moved in. This area is also referenced on a historical map, 15 July 1957 Fort Ord Training Areas Facilities Map. A May 1996 inspection by an EOD specialist discovered only expended small arms blanks. No evidence of OE, such as ordnance fragmentation, fuzes, or projectile case were found.

**Recommendation: Further investigation is recommended.**

#### 6.24 Site OE 24, Grenade Ranges (42 acres)

**Description:** A 1946 map (Master Plan Fort Ord) depicted several grenade ranges including rifle and hand, practice, and live grenade ranges. These were shown within the housing area near the Officer's Club. A site visit resulted in finding one OE item, a piece of rifle grenade warhead believed to be part of a HE grenade. The piece of warhead was found at FR06836 53857/N 36 37' 33.9", W121 48' 18.5". Subsequently this area has been subdivided into 24A through 24E.

Investigation History 24A: This area is the Practice Rifle Grenade Range. In 1994-1995 this area, approximately 13.9 acres was surveyed and may have been brush cleared by the Army's OE contractor UXB. No intrusive work was performed.

**Recommendation 24A: Further investigation and random sampling is recommended.**

Investigation History 24B: Practice Rifle Grenade Range, approximately 14.2 acres. Status is the same as 24A.

**Recommendation 24B: Further investigation and random sampling is recommended.**

Investigation History 24C: Live Grenade Range approximately 9.7 acres. Status same as 24A.

**Recommendation 24C: Further investigation and random sampling is recommended.**

Investigation History 24D: Booby Trap Area, approximately 1.8 acres. Status same as 24A.

**Recommendation 24D: Further investigation and random sampling is recommended.**

Investigation History 24E: Practice Rifle Grenade Range approximately 2.7 acres. Status same as 24A.

**Recommendation 24E: Further investigation and random sampling is recommended.**

#### 6.25 Site OE 25, Firing Point

Description: This site was a previously unidentified firing point in the P-5 training area. This site has been subsumed into Site OE 14D.

Investigation History: It was noted during a site visit that there are small arms ammunition cartridge cases lying about, and there is a range flag pole and a marker emplaced by an Engineer battalion in 1980 marking this firing point.

**Recommendation: Refer to Site OE 14D.**

## 6.26 Site OE 26 Hilltop within P-5

Description: This site is a hilltop within P-5, discovered during a site visit of a training site. This site has been subsumed into 14D.

Investigation History: Hundreds of small arms cartridge cases were discovered, including .30 caliber, 7.62mm, and 5.56mm. The .30 caliber headstamps were marked with the years 1952 and 1954. The remains of a booby trap simulator were found well.

**Recommendation: Refer to Site OE 14D.**

## 6.27 Site OE 27 Training Sites

Description 27: This site includes 25 Training Sites. These areas were depicted on a historical training area map called the Beardsley Map, date unknown. Nothing was found during research that described the type of training at any of these areas. TS-17 was chosen at random to survey for the presence of OE. Evidence littered the ground in the form of .30 caliber and 7.62mm blank cartridge cases, grenade spoons, and a grenade fuze (M201A1) at FR 14222 53163/N 36 37' 08.3"; W121 43' 21.6".

Wrong!  
1984  
Training  
Facilities  
Map w/  
BLW  
Field  
Notes

Description: 27 TS-1: This site is partially located in Site OE-55.

Investigation History: A site inspection completed in March 1996 by an EOD specialist, discovered only expended small arms blanks.

**Recommendation: Recommend this area undergo sampling as part of overall site investigation.**

Description: 27 TS-2: This site is located northeast of the Parker Flats Training Area.

Investigation History: A site inspection completed in March 1996 by an EOD specialist, discovered only expended small arms blanks.

**Recommendation: Recommend this area undergo sampling as part of overall site investigation.**

Description: 27 TS-3: This site is located northeast of TS-2 and South of the Tactical Training Area.

**Investigation History:** A site inspection completed in March 1996 by an EOD specialist, discovered only expended small arms blanks.

**Recommendation:** Recommend this area undergo sampling as part of overall site investigation.

**Description:** 27 TS-4: This area is subsumed by Site OE-57.

**Investigative History:** Refer to Site OE-57.

**Recommendation:** Refer to Site OE-57.

**Description:** 27 TS-5: Located northeast of TS-4.

**Investigation History:** No known investigation.

**Recommendation:** Recommend this area undergo sampling as part of overall site investigation.

**Description:** 27 TS-6: Located northwest of Site OE-59.

**Investigation History:** No known investigation.

**Recommendation:** Recommend this area undergo sampling as part of overall site investigation.

**Description:** 27 TS-7: This area is subsumed into Site OE-53.

**Investigation History:** Refer to Site OE-53.

**Recommendation:** Refer to Site OE-53.

**Description:** 27 TS-8: This area is subsumed into Site OE-16.

**Investigation History:** Refer to Site OE-16.

**Recommendation:** Refer to Site OE-16.

**Description:** 27 TS-9: This area is subsumed into Site OE-10A.

**Investigation History:** Refer to Site OE-10A.

**Recommendation:** Refer to Site OE-10A.

Description: 27 TS-10: Located on the southwest border of Site OE-10B and is subsumed into Site OE-10B.

Investigation History: Refer to Site OE-10B.

**Recommendation: Refer to Site OE-10B.**

Description: 27 TS-11: Located west of Site OE-65 and north of Site OE-12.

Investigation History: No known investigation.

**Recommendation: Recommend site investigation and random sampling.**

Description: 27 TS-12: Per interview with Fred Stephani, this ridge was a maneuvering area where soldiers trained with ordnance that could be carried and fired: hand grenades, rifle grenades, shoulder launched projectiles, and booby traps. The area was used for this type of training until at least the early 1970's, when the 7th Infantry took over.

Investigation History: No known investigation.

**Recommendation: Recommend site investigation and sampling.**

Description: 27 TS-13: Subsumed into Site OE-64 and Site OE-65.

Investigation History: Refer to Site OE-64 and Site OE-65.

**Recommendation: Refer to Site OE-64 and Site OE-65.**

Description: 27 TS-14: Per interview with Fred Stephani, this area was used in the 1960's for hand grenade training. Soldiers would throw the grenades from the top of the hill into Engineers Canyon. This area was used for approximately one year. Training at the Upper Engineer Canyon dirt road consisted of bazookas and rifle grenades fired on both sides of the canyon during the 1950's - 1960's. Also, grenades were thrown from the side of the north slope into the canyon. Site OE-61 overlaps this site.

Investigation History: Refer to Site OE-61.

**Recommendation: Refer to Site OE-61.**

Description: 27 TS-15: Located south of Site OE-10B.

Investigation History: No known investigation.

**Recommendation: Conduct site investigation and sampling.**

Description: 27 TS-16/17/18: Located southeast and east of Site OE-12.

Investigation History: These sites were surveyed and may have been brush cleared by UXB in 1994-1995. These sites are documented in the Army's OE contractor UXB's Combined Non-Intrusive After Action Report.

**Recommendation: Conduct site investigation and sampling.**

Description: 27 TS-19: Located southeast from Site OE-17.

Investigation History: No known investigation.

**Recommendation: Site investigation and sampling.**

Description: 27 TS-20: Located northeast of Site OE-14E.

Investigation History: In 1994-1995 this site was surveyed and may have been brush cleared by UXB. See UXB's Combined Non-Intrusive After Action Report.

**Recommendation: Recommend site investigation and sampling.**

Description: 27 TS-21: This site is subsumed into Site OE-32.

Investigation History: In 1994-1995 this site was surveyed and may have been brush cleared by UXB. See UXB's Combined Non-Intrusive After Action Report.

**Recommendation: Refer to Site OE-32.**

Description: 27 TS-22: Located northwest portion of Site OE-14B.

Investigation History: In 1994-1995 this site was surveyed and may have been brush cleared by UXB. See UXB's Combined Non-Intrusive After Action 14-B Report.

**Recommendation: Refer to Site OE-14B.**

Description: 27 TS-23: Subsumed into Site OE-64.

Investigation History: Refer to Site OE-64.

**Recommendation: No further action.**

Description: 27 TS-24: This site is located south of the Oil Well Road Training Area in the southeastern portion of former Fort Ord.

Investigation History: This site was randomly sampled by UXB. They conducted random sampling of 40 grids to a depth of 4 feet. A total of 424 live small arms were discovered and one expended OE item was discovered.

**Recommendation: No further action.**

Description: 27 TS-25: This site is located north of Inter-Garrison Road, approximately 1.5 miles west of the East Garrison.

Investigation History: The contractor UXB conducted random sampling (18-50'x1700' lanes) to a depth of 4 feet. A total of 65 live small arms and one expended OE item were discovered.

**Recommendation: No further action.**

#### 6.28 Site OE 28, MOUT Site

Description: Through a telephone interview, an interviewee stated that site Mout has lots of ordnance, including torpedoes, removed from the site. The area may have been used as an EOD training area. This site is located in Wildcat Canyon of the MRA. Impossible City, a mock city, was part of this complex. It was used for training infantry to operate within an urban center. Several buildings within the city were live fire small arm sites. There was also Tire House, constructed out of sand-filled tires where live fire of small arms and the use of high explosive hand grenades were authorized. There are reports of 40mm HE grenades and bazooka rounds being fired into Wildcat Canyon, somewhere south of Impossible City.

Investigation History: Reference HLA Site 39 report.

**Recommendation: Recommend site investigation to confirm the potential for OE.**

#### 6.29 Site OE 29, Laguna Seca Bus Turn Around (26 acres)

Description: This 26 acre site is located on the southern tip of Site OE-14.

**Investigation History:** In 1994-1995 live UXO was discovered during the Army's OE contractor UXB's sampling of 69 grids to a depth of 4 feet. Sampling was halted by CEHND. At that time 2,718 live small arms, 83 live OE, and 5 expended OE items were recovered. The Army's OE contractor, CMS has conducted a removal action on the 2 acre bus turnaround portion of the site.

**Recommendation: Complete removal action on the remainder of the site.**

#### 6.30 Site OE 30, Laguna Seca Turn 11 (5.9 acres)

**Description:** The site is located adjacent to the southeastern side of the Wolf Hill parcel, just north of (and adjacent to) the Laguna Seca raceway. The parcel is considered as an OE site because it lies within the boundaries of the Multi-Range Area (MRA) and is adjacent to the Wolf Hill training area.

**Investigation History:** This site was subjected to a 4-foot removal action by the Army's OE contractor UXB. Two inert 37mm AP-T projectiles were discovered during sampling. Two live OE items were found, a 75mm HE projectile and a 81mm illumination cartridge.

**Recommendation: Removal actions completed.**

#### 6.31 Site OE 31, CSU Footprint (313-388 acres)

**Description:** Site CSU Footprint was identified as a result of an impending BRAC action. Previous OE sampling activities, associated with separate sites, had occurred in the Site CSU Footprint prior to its removal action. Sites 4C, 7, 8, 18, CSU, HFA/CSU are located within Site CSU Footprint. Site CSU represents the eastern portion of Site CSU Footprint, 1 of 2 areas in Site CSU Footprint that underwent a removal action by UXB rather than HFA. Site HFA/CSU is located in the north central portion of Site CSU Footprint, 1 of 2 areas in Site CSU Footprint underwent a removal action by the Army's OE contractor UXB rather than HFA.

**Investigation History:** Most of the site was subjected to three separate removal action: one conducted by HFA and two conducted by UXB. HFA's activities included a 3-foot removal action in approximately three-quarters of the Site CSU Footprint, generally encompassing most of the western portion of the site. UXB conducted a 4-foot removal action in two areas: the eastern portion of the site (the nearly 70-acre Site CSU), and a small (nearly 6-acre) area in the north-central portion of Site CSU Footprint (known as Site HFA/CSU). Site 13C is an additional area added to the southern portion of this site to reflect accurate survey data for this location.

Several burial pit caches of ordnance were found and removed. Many of the items found within this site were in burial pits. All OE items in burial pits were completely removed.

**Recommendation: Removal actions complete at this site.**

### 6.32 Site OE 32, Oil Well Road Training Area

**Description:** The Oil Well Road Training Area is located in the eastern portion of Fort Ord and was documented from a review of historical maps undated, Fort Ord Map, Incl 1, to App. A to Annex 0 and map of Fort Ord Training Areas and Facilities 15 July 1957. The area was shown as a training area and tank maneuver area. This site is discussed as 32A through 32C.

According to an interview with Mr. Fred Stephani, a tank hull in this canyon was used in the 1950's and 1960's as a target for ordnance training including shoulder launched projectiles and rifle grenades. The firing direction was from north to south. This area includes many target areas for shoulder fired projectiles, armor piercing projectiles and possibly mortar. The firing points were located along the Oil Well Road Extension and along the south edge of the area. This activity took place in the early 1950's. This site also includes Site TS 21.

**Investigation History 32A:** This area is approximately 38 acres. The Army's OE contractor UXB conducted random sampling (17 grids-Oil Well Road Parking Area; 34 grids-Skyline Road) to a depth of 4 feet. A total of 239 live small arms and 3 expended OE items were recovered.

**Recommendation 32A: No further action in accordance with Phase I EE/CA.**

**Investigation History 32B:** This area is approximately 47 acres. The Army's OE contractor UXB conducted random sampling (20 grids) to a depth of 4 feet. A total of 263 live small arms and 1 expended OE item were recovered.

**Recommendation 32B: No further action in accordance with Phase I EE/CA.**

**Investigation History 32C:** This site is approximately 145 acres. The Army's OE contractor UXB surveyed and may have brush cleared the site. No intrusive work was performed by UXB. During 1995-1997 the Army's OE contractor CMS conducted sampling (102 grids). As of this time, they have sampled 16% of the grids and they have recovered one 81mm M301A2 illuminating cartridge.

**Recommendation 32C: Removal action is complete.**

**6.33 Site OE 33, Cache**

**Description:** OE Cache was identified by the federal police on Fort Ord, and is located approximately 0.5 miles south of the East Garrison. It is represented by a fox hole that contained small arms ammunition and 40mm cartridges.

**Investigation History:** In 1994-1995 the Army's OE contractor UXB conducted a removal action (.1 acre) to a depth of 4 feet. They discovered 8,773 live small arms and 6 live OE items. All OE was removed from the foxhole.

**Recommendation: Removal action is complete.**

**6.34 Site OE 34, Fritzsche Army Airfield (FAAF) (70-77 acres)**

**Description:** FAAF is located at the northern end of the installation. The site was identified through review of a 1942 Fort Ord Master Plan map showing a 2.36" rocket practice range (prior to establishment of the airfield).

**Investigation History:** The Army's OE contractor UXB conducted a random search of the area to determine an impact zone and designate a removal area. Once this was accomplished, UXB conducted a removal action (323 grids) to a depth of 3 feet at FAAF. They removed 69 live small arms cartridges, 29 live OE which consisted of 24, 2.36 inch rockets and 5 demolition charges, and 329 expended OE items.

**Recommendation: Removal action is complete.**

**6.35 Site OE 35, Former Range Control (FRC) (8 acres)**

**Description:** This site is on the northern edge of the MRA. Site FRC was formerly used as Camp Huffman. It is centrally located on the northern boundary of the MRA and currently serves as a BLM facility on the site.

**Investigation History:** The Army's OE contractor UXB conducted random sampling (7 grids of various dimensions to a depth of 4 feet). Of the 7 grids sampled in the site, 3 grids were noted to contain OE. A total of 508 live small arms and 2 live OE items consisting of a grenade fuze and ground illumination signal were recovered. These 2 live items were found on the surface.

**Recommendation: Conduct removal action at this site.**

### 6.36 Site OE 36

NOT USED

### 6.37 Site OE 37, Parker Flats Mortar Range

**Description:** This site is north of Range 49 between Old Parker Flats Road and Watkins Gate Road. This range was identified on an undated map supplied by the Fort Ord Fire Department. This area was most likely used for firing practice mortars or in nonfiring drills (dry-fire). This site has been subsumed into Site OE-55.

**Investigation History:** This site has not been investigated as of this time. However, a site inspection was conducted adjacent to this site (OE-55) by an UXO specialist based upon an interview with Mr. Fred Stephani. He discovered 75mm expended shrapnel, one mine fuze, and two 37mm practice fragments.

**Recommendation:** This site should be investigated further as part of Site OE-55.

### 6.38 Site OE 38

NOT USED

### 6.39 Site OE 39, Mine & Booby Trap Area

**Description:** Located in the Marshall Housing Area, 15 July 1957 and 10 January 1958 maps (Fort Ord Training Areas & Facilities) show this site.

**Investigation History:** The Army's OE contractor CMS sampled this area from 13 August 1997 through 21 August 1997. They sampled 4 grids, 100' x 200'. No evidence of OE was discovered.

**Recommendation:** No further action is recommended.

### 6.40 Site OE 40, Parker Flats Gas House

**Description:** This site has the same characteristics as the CBR training areas, Sites 4A, 4B and 4C. The ASR identified Sites 4A, 4B and 4C from historical maps and an Enhanced Preliminary Assessment for Fort Ord. Tear gas agents (CS and CN) may have been used in the gas chambers in these areas. Based on a review of a 1983 U.S. Chemical Systems Laboratory document that classroom

training occurred in Building 2820, and that part of this training involved the use of minute quantities of mustard gas (probably a part of Chemical Agent Identification Sets (CAIS), four of which had been transferred to Edgewood Arsenal).

**Investigation History:** No investigation history at this time.

**Recommendation:** Site investigation is recommended.

#### 6.41 Site OE 41, Powder Magazine in Combat Range 3

**Description:** Subsumed into Site OE 58. Powder Magazine shown on Training Facilities Map, 1945. Research into historical powder magazines shows that gun powder was transferred from 100 pound barrels to flannel cartridges, and fireworks, fuzes, matches, case shot, wads, grenades, and shells were made.

**Investigation History:** No known investigation at this time.

**Recommendation:** Refer to Site OE 58.

#### 6.42 Site OE 42, Rifle Grenade Area

**Description:** Located from a 1946 map (Master Plan Fort Ord) and interviews. This site is located in ASP Rifle Grenade Area.

**Investigation History:**

**Recommendation:** Further site investigation and sampling is recommended.

#### 6.43 Site OE 43, South Boundary Area

**Description:** This area was identified during interviews with former Fire Chief Fred Stephani. Mr. Stephani stated that a portion of the ridge in this parcel was used as a backstop for rifle grenades and shoulder launched projectiles from 1942 to 1944. Firing positions (trenches) were excavated along South Boundary Road and firing was from the Southeast to the Northwest at a diagonal to the hill. Impact occurred just north of the large stand of pine trees and continued up to the first of the last pair of large fire breaks. The firing positions were buried when the use was discontinued. The area was controlled burned in the early 1940's to support this training.

**Investigation History:** The Army's OE contractor CMS has cutting lanes of brush in this site to support an OE inspection of this area. Surface and subsurface

sweeps were conducted by an UXO specialist as a safety measure for brush cutters. During those sweeps, the specialist discovered 37mm black powder frag at the northwest end of the site.

**Recommendation: Recommend this area undergo random sampling as part of overall site investigation.**

#### 6.44 Site OE 44, Monterey Peninsula College Habitat Preserve

**Description:** This area is just north of the MRA. The boundaries of this site were identified when an ordnance safety specialist discovered OE items described below as part of a site visit for an adjacent site.

**Investigation History:** An ordnance safety specialist discovered 37 mm HE frag and a 37mm rotating band, 5 June 1996. According to inspection notes, the area is impenetrable without cutting.

**Recommendation: Recommend this area undergo sampling as part of an overall site investigation.**

#### 6.45 Site OE 45, Tactical Training Area (401.25 acres)

**Description:** This site consists of 401.25 acres east of the CSU Footprint. This site has a road network through a campground.

**Investigation History:** An early inspection of the area found a grenade fuze just southwest of the water tower (FR 1198 505). A walk through of the eastern portion by an ordnance safety specialist discovered a dud Mark II practice grenade and an inert Mark I practice grenade. The Army's OE contractor CMS has recently conducted sampling (awaiting results).

**Recommendation: Recommend this area undergo confirmatory sampling.**

#### 6.46 Site OE 46, York School (67 acres)

**Description:** This site consists of BRAC Parcel L3.2, which comprises approximately 67 acres along the southern boundary of the MRA. The boundary shown for this parcel is based on the Public Conveyance Request received from the federal Department of Education. There is no record of this portion of the MRA ever having been an impact area.

**Investigation History:** This area was inspected by an ordnance safety specialist who found evidence of small arms blanks usage.

**Recommendation:** Recommend this area undergo sampling to rule out the potential for OE to exist on the site. If nothing is discovered, no further action is recommended.

#### 6.47 Site OE 47, Wolf Hill (75 acres)

**Description:** This site is located on the southern installation boundary, just north of the Laguna Seca race track. The boundaries for this site were identified as a result of BRAC parcelization and is approximately 75 acres. The parcel was considered as an OE site because it lies within the boundaries of the Multi-Range Area (MRA) and within the Wolf Hill training area. The ASR noted that 37mm projectiles were found just inside the installation boundary at Wolf Hill.

**Investigation History:** The site has undergone several actions. First a sampling of the grids was conducted by the Army's OE contractor HFA. The CEHND Safety Specialist declared the area contaminated when two live 37mm cartridges and a live 81mm HE mortar were discovered. In 1994 the area underwent a controlled burn to enable crews to access the area and conduct OE sampling. In support of this controlled burn, the Army's OE contractor UXB conducted a removal action on the fire break in 1995. Two live 75mm HE projectiles were found and blown in place. In 1995-1996 the area was sampled by CMS and 1,299 live small arms and 210 live OE discovered. This was followed by an OE removal action over 74.16 acres in February 1997 to July 1997.

**Recommendation:** Recommendations will be based upon final removal actions.

#### 6.48 Site OE 48, Former Dummy Grenade

**Description:** This site was identified from a 1946 Master Plan Map. It is near sites OE-11 and OE-42, both of which had similar type of grenade training.

**Investigation History:** During a site inspection by an EOD safety specialist, 4.2" mortar frag and other debris were discovered .

**Recommendation:** Conduct sampling as part of an overall site investigation.

#### 6.49 Site OE 49, Former Rifle Grenade Range (N 36° 38' 9.93" W 121° 48' 7.79")

**Description:** This area was identified during interviews with former Fire Chief Fred Stephani. Mr. Stephani stated that this area was a rifle grenade range in the 1940's and 1950's. Use ended when the Officer's Club was built. Firing was from North-West into the South face of the canyon and up the canyon to the East.

**Investigation History:** EOD incident report; Fox hole discovered.

**Recommendation:** Further sampling is recommended to determine the boundary of the site and presence of OE contamination.

#### 6.50 Site OE 50, Artillery Hill

**Description:** This area was identified during interviews with former Fire Chief Fred Stephani. Mr. Stephani stated that Artillery Hill was a target area rifle grenades and shoulder launched projectiles in the 1940's, 1950's and 1960's. Prior to the construction of the Marshall Park housing area, soldiers used to march inland on what is now Normandy Road. As they approached Artillery Hill they would begin firing at the hill. After the housing was built, the soldiers would wait until they reached the flat area (at the cross roads of Parker Flats and Parker Flats cut-off) in front of Artillery Hill then they would commence firing.

**Investigation History:** During a site inspection by an EOD specialist, 37mm frag and 75mm HE projectiles were discovered on southwest slope of this area.

**Recommendation:** Conduct sampling as part of overall site investigation.

#### 6.51 Site OE 51

NOT USED

#### 6.52 Site OE 52, Rifle Grenade and Projectile Target Area

**Description:** This area was identified during interviews with former Fire Chief Fred Stephani. Mr. Stephani stated that this was a rifle grenade and shoulder launched projectile target area. This area is part of an area shown on 10 January 1958 map of Fort Ord Training Areas & Facilities.

**Investigation History:** A site inspection by an ordnance safety specialist discovered 37mm frag, and an AT mine (inert?).?

**Recommendation: Recommend further site investigation and sampling in vicinity of AT mine area.**

**6.53 Site OE 53, Shoulder Launched Projectile Area (N 36° 38' 10.75" W 121° 46' 58.7" 105FR 08805 55016)**

**Description:** Shoulder Launched Projectile Target Area from "C". The hill located between the two flats was a target area for rifle grenades and shoulder launched projectiles. The firing point was near a small building across the flat to the west. The hill was also assaulted by rifle grenades and shoulder launcher projectiles from the south east. This use occurred in the 1940's, 1950's and 1960's. The hill south of the large flat at Parker Flats was a target area for rifle grenades and ground/tube launched projectiles. The firing point was near the road on the north east side of the flat. The main target was a tank hull place at the intersection of two roads. This use occurred in the 1940's, 1950's and 1960's.

**Investigation History:** A site inspection in May 1996, by an ordnance safety specialist, discovered one 3" stokes mortar round, filler unknown. A second visit also revealed 75mm shrapnel, two more 3" stokes mortars and projectile fragmentation.

**Recommendation: Recommend further site investigation and sampling.**

**6.54 Site OE 54, Canyon Target Area (N 36° 37' 58.04" W 121° 46' 12.15" 105FR 09965 54639)**

**Description:** These two canyons were identified during interviews with former Fire Chief Fred Stephani. Mr. Stephani stated that the southern most canyon was used for flame throwers and was also a firing point and range for hand grenades, rifle grenades, shoulder launched projectiles and artillery. The target area was to the east into the canyon. There were targets set up in the canyon and some ordnance was fired across Watkins Gate Road. Mr. Stephani recalled ordnance discovered in the area south of the canyon along the road. Site OE-3 is contained in this site.

Mr. Stephani stated that this northern most canyon included a firing point and range for hands grenades, rifle grenades, shoulder launched projectiles and artillery. The target area was to the east into the canyon. He stated that in the past, the Fire Department discovered artillery rounds in the canyon. (Backside N 36° 37' 57.7" W 121° 46' 12.22")

**Investigation History:** A site inspection by an ordnance safety specialist discovered a 2.36" rocket practice, expended, two 75mm shrapnel, lead spheres, an unknown pyrotechnic, three 81mm practice mortars (inert), two signal illumination, ground M125-A1, and two expended tear gas grenades.

**Recommendation: Further site investigation and sampling is recommended.**

#### 6.55 Site OE 55, Parker Flats

**Description:** This area was identified during interviews with former Fire Chief Fred Stephani. Mr. Stephani stated that this area includes a firing point and range for hand grenades, rifle grenades, shoulder launched projectiles and artillery. The target area was to the east into the canyon. This area is partly located within Site TS-1. Site OE 55 includes Site OE 37 - the Parker Flats Practice Mortar Range.

**Investigation History:** An inspection by an EOD specialist on 10 June 1996 discovered one 75mm shrapnel (expended), two 37mm practice (frag) and one mine fuze.

**Recommendation: Further site investigation and sampling is recommended.**

#### 6.56 Site OE 56, Hayrake Area (N 36° 38' 22.2" W 121° 45' 57.2")

**Description:** This area was identified during interviews with former Fire Chief Fred Stephani. Mr. Stephani stated that this was a target area for machine guns, M-1, rifle grenades, smoke grenades and shoulder launched projectiles. The firing direction was from behind the "hayrake" (a piece of farming equipment) to the south east. This use occurred in the 1940's, 1950's and 1960's.

**Investigation History:** A site inspection by an EOD specialist in January 1996 discovered expended small arms blanks.

**Recommendation: Recommend further site investigation and sampling.**

#### 6.57 Site OE 57, (N 36° 38' 43.8" W 121° 45' 31.9" 105FR 10948 56063)

**Description:** Mr. Stephani stated that at the intersection of Henneckens Ranch Road and Watkins Gate Road was a firing point for machine guns, M-1, rifle grenades, smoke grenades and shoulder launched projectiles. Firing was from the

gully on the west side of Henneckens Ranch Road directed to the east along the tree line. Also, from the north side of Watkins Gate Road to the tree line to the south. This use occurred in the 1940's, 1950's and 1960's. According to Mr. Stephani, rifle grenades and bazooka rounds were found on the hill at the intersection of Watkins Gate Road and Parker Flats Road. This area was often burned to detonate the UXO. The firing point was the cleared area on the south east side of Watkins Gate Road. The telephone poles that are currently within the area existed at the time this area was used. Site TS-4 encompasses this entire site.

**Investigation History:** A site inspection conducted in January 1996 by an ordnance safety specialist discovered a 75mm shrapnel projectile, expended.

**Recommendation:** Recommend further site investigation and sampling.

6.58 Site OE 58, (N 36° 37' 33.00" W 121° 46' 3.5")

**Description:** This area was identified during interviews with former Fire Chief Fred Stephani. Mr. Stephani stated that this area includes firing points and probably target area for rockets. Also, rifle grenades and shoulder launched projectiles were fired from foxholes along Watkins Gate Road to the east. Mr. Stephani also identified firing points and target areas for rifle grenades and direction was from Eucalyptus Road to the north. This use occurred in the 1940's and 1950's.

**Investigation History:** The area has been inspected by an ordnance safety specialist in April 1996. Expended small arms blanks only were discovered.

**Recommendation:** Recommend further site investigation and sampling.

6.59 Site OE 59

**Description:** This area was identified during interviews with former Fire Chief Fred Stephani. Mr. Stephani stated that in the early 1940's this area included a 2.36" rocket range. Mr. Stephani only heard about this because it was inactive when he was at Fort Ord. He thinks it was active during the days of the "tent city" at East Garrison.

**Investigation History:** Two pieces of 60mm mortar fragments were discovered during a February 1996 site visit by an EOD specialist.

**Recommendation: Recommend further site investigation and random sampling.**

**6.60 Site OE 60, (N 36° 37' 23.5" W 121° 42' 37.5")**

**Description:** This area was identified during interviews with former Fire Chief Fred Stephani. Mr. Stephani stated this canyon was a target area for hand grenade, rifle grenade and shoulder launched projectiles. There are two firing areas, one from the east and the other from the north east. This area was used until at least the early 1970's, when the 7th Infantry took over the post.

**Investigation History:** An EOD specialist discovered expended flares and signals during an inspection done in December 1995.

**Recommendation: Recommend an expanded site visit, sampling, and surface clearance.**

**6.61 Site OE 61, Grenade Range (N 36° 37' 5.75" W 121° 42' 25.45")**

**Description:** This area was identified during interviews with former Fire Chief Fred Stephani. Mr. Stephani stated that this area was used in the 1960's for hand grenade training. Soldiers would throw the grenades from the top of the hill into Engineers Canyon. This area was used for approximately one year. This area overlaps Site TS-14 (Site OE 27 TS-14). Mr. Stephani also stated that bazookas and rifle grenades were fired on both sides of the canyon along Upper Engineer Canyon road in the 1950's to 1960's. Also, grenades were thrown from the side of the north slope into the canyon. (SW Corner N 36° 36' 49.62" W 121° 42' 49.33" FR 15031 52597)

**Investigation History:** A site inspection was completed by an EOD specialist in December 1995. Blank 5.56 and 7.62 small arms were encountered throughout the area.

**Recommendation: Recommend an expanded site visit, sampling, and surface clearance.**

**6.62 Site OE 62, Laguna Seca Open Spaces (LSOS)**

**Description:** This area was identified during interviews with former Fire Chief Fred Stephani. Mr. Stephani stated that the area was used from 1948 to 1950. Training activities included the use of small arms and flares. Soldiers would use the weapons on the West end of the site and in the canyon on the east end.

**Investigation History:** This area has been surveyed and may have been brush cleared by UXB. In January 1996 an EOD specialist discovered expended small arms blanks. No evidence of OE such as fragmentation, fuzes, or projectile cases were found.

**Recommendation: No further action.**

#### 6.63 Site OE 63, Canyon Training Area

**Description:** This area was identified during interviews with former Fire Chief Fred Stephani. Mr. Stephani stated that the area was used from 1948 to 1950. Training activities included the use of small arms and flares. Soldiers would use the weapons in the canyon.

**Investigation History:** Reference OE 62 and RAC sheet.

**Recommendation: No further action.**

#### 6.64 Site OE 64

**Description:** This area was identified during interviews with former Fire Chief Fred Stephani and former Fort Ord Range Control Officer Lee Stickler. Mr. Stephani stated that small arms and rifle grenades were fired from both sides of the road into the cliffs and up the canyon from the mouth. This use occurred until the 7th Infantry took over the installation. Mr. Stickler stated that there had been a Vietnam village training area within OE Site 27 (TS-23). He stated that he thought only small arms were used in this area. The village was demolished in the 1980s.

**Investigation History:** During a site inspection in November 1995 an EOD specialist discovered 5.56 - 7.62 blanks along the roads and expended M-18 smoke hand slap flares. No evidence of OE such as fragmentation, fuzes, or projectile cases were found.

**Recommendation: Recommend an expanded site visit, sampling, and surface clearance.**

#### 6.65 Site OE 65

**Description:** This area was identified during interviews with former Fire Chief Fred Stephani. Mr. Stephani stated that practice bazooka and rifle grenades were fired from the North edge at the top of the canyon and to the south in the 1950's to 1960's. A Firing Point is also within Site OE 65. Site TS-13 extends into Site OE 65.

**Investigation History:** During a November 1995 site inspection, an EOD specialist discovered expended 5.56 - 7.62 small arms.

**Recommendation:** Recommend an expanded site visit, sampling, and surface clearance.

#### 6.66 Site OE 66, Signal Corps Small Arms

**Description:** This area was identified during interviews with former Range Control Officer Lee Stickler. Mr. Stickler stated that the area east of the power lines was the location of the signal corps field training area. Small arms blanks were used in this area. The buildings in this area have been removed.

**Investigation History:** A site inspection was conducted by an EOD specialist in November 1997. No evidence of OE such as fragmentation, fuzes, or projectiles cases were found.

**Recommendation:** No further action.

#### 6.67 Site OE 67

**Description:** This area was identified during interviews with former Fire Chief Fred Stephani. Mr. Stephani stated that shoulder launched projectiles were fired from a fixed point at the north west end of the site, parallel to the road. Rifle grenades were fired on both sides of Jack's Road from the 1940's to 1960's.

**Investigation History:** During a November 1995 site inspection, an EOD specialist encountered small arms blanks (expended) and one M-18 smoke hand (expended).

**Recommendation:** Recommend an expanded site visit, sampling, and surface clearance.

#### 6.68 Site OE 68

**Description:** This area was identified during interviews with former Fire Chief Fred Stephani. Mr. Stephani stated that the grassy opening near the boy scout camp, shoulder fired rockets and rifle grenades were fired from the westerly dirt road into the hills. The existing water tank reportedly had been repaired at least twice due to being hit as a target.

**Investigation History:** A November 1995 site inspection by an EOD specialist discovered small arms blanks and expended signal, illumination star cluster.

**Recommendation: Recommend an expanded site visit, sampling, and surface clearance.**

**6.69 Site OE 69**

**Description:** This area was identified during interviews with former Fire Chief Fred Stephani. Mr. Stephani stated that small arms and maybe rifle grenades were fired at a fixed target from the bottom to the side of ridge then from the boy scout area up to the other side of the same ridge.

**Investigation History:** A November 1995 inspection by an EOD specialist found no evidence of small arms or OE items.

**Recommendation: No further action.**

**6.70 Site OE 70**

**Description:** This area was identified during interviews with former Fire Chief Fred Stephani. Mr. Stephani stated that training occurred in this area before 1948. There is evidence of firing berms in the flat area. Firing points were stacked railroad ties with dirt piled in front of the timbers. Firing occurred up the valley from the south end of the site.

**Investigation History:** A November 1995 inspection by an EOD specialist found no evidence of small arms or OE items.

**Recommendation: No further action.**

**ADDITIONAL NOTES:**

FORMER SITE 36 area has been transferred, but is mentioned in this report to document historical information. It is approximately one mile east of the intersection of Blanco Road and Reservation Road. According to the former Chief of the Fort Ord Fire Department (Chief Fletcher), a 3.5" rocket was found in a bush in this area sometime around 1975 to 1978 and removed by EOD personnel shortly thereafter. No EOD report was available for review. There is no other evidence to indicate that this area was used for ordnance training. The rocket was most likely removed from another range and abandoned there.

**Recommendation: There is no evidence to indicate this area was used for any type of ordnance training.**

**ORDNANCE AND EXPLOSIVE WASTE  
ARCHIVES SEARCH REPORT  
(SUPPLEMENT NO. 1)**

**FORMER FORT ORD, CA**

**APPENDIX A**

**ACRONYMS**

**A**

<b>AAF</b>	<b>Army Air Field</b>
<b>APHE</b>	<b>Armor Piercing High Explosive</b>
<b>AP</b>	<b>Anti-Personnel or Armor Piercing</b>
<b>API</b>	<b>Armor Piercing Incendiary</b>
<b>ASP</b>	<b>Ammunition Supply Point</b>
<b>ASR</b>	<b>Archives Search Report</b>
<b>AT</b>	<b>Anti-Tank</b>
<b>ATWES</b>	<b>Anti-Tank Weapons Effect Simulator</b>

**B**

<b>BIP</b>	<b>Blow In Place</b>
<b>BRAC</b>	<b>Base Realignment And Closure</b>

**C**

<b>CAIS</b>	<b>Chemical Agent Identification Sets</b>
<b>CAL</b>	<b>Caliber</b>
<b>CE</b>	<b>Corps of Engineers</b>
<b>CEHND</b>	<b>Corps of Engineers, Huntsville Division</b>
<b>CERCLA</b>	<b>Comprehensive Environmental Response, Compensation and Liability Act</b>
<b>CERFA</b>	<b>Community Environmental Response Facilitation Act</b>
<b>CTG</b>	<b>Cartridge</b>
<b>CWM</b>	<b>Chemical Warfare Material</b>

**D**

<b>DENR</b>	<b>Directorate of Environmental and Natural Resources</b>
<b>DERA</b>	<b>Defense Environmental Restoration Account</b>
<b>DERP</b>	<b>Defense Environmental Restoration Program</b>
<b>DOD</b>	<b>Department of Defense</b>
<b>DRMO</b>	<b>Defense Reutilization and Marketing Office</b>

**E**

<b>EIS</b>	<b>Environmental Impact Statement</b>
<b>EOD</b>	<b>Explosives Ordnance Disposal</b>

**EOR** Explosive Ordnance Reconnaissance  
**EPA** Environmental Protection Agency

**F**

**FAAF** Fritzsche Army Air Field  
**FFAR** Folding Fin Aerial Rocket (2.75")  
**FORSCOM** Forces Command  
**FP** Firing Point  
**FR** Federal Register  
**FRC** Fort Ord Range Control/Former Range Control  
**FUDS** Formerly Used Defense Sites  
**FWS** U. S. Fish and Wildlife

**G**

**GSA** General Services Administration

**H**

**HE** High Explosive  
**HEAT** High Explosive Anti-Tank  
**HEDP** High Explosive Dual Purpose  
**HMP** Habitat Management Plan  
**HTRW** Hazardous, Toxic and Radioactive Waste

**I**

**IDL** Infantry Division Light  
**IN** Inch or Inches  
**INPR** Inventory Project Report  
**IRP** Installation Restoration Program  
**IRUS** Infantry Rifle Unit Study

**L**

**LAW** Light Anti-Tank Weapon  
**LOR2** Lookout Ridge Part II  
**LSBT** Laguna Seca Bus Turn-around  
**LSOS** Laguna Seca Open Spaces  
**LST11** Laguna Seca Turn 11 Expansion

**M**

**MCX** Mandatory Center of Expertise  
**MG** Machine Gun  
**MOUT** Military Operations In Urban Terrain  
**MP** Mortar Position

**O**

**OEW** Ordnance and Explosive Waste

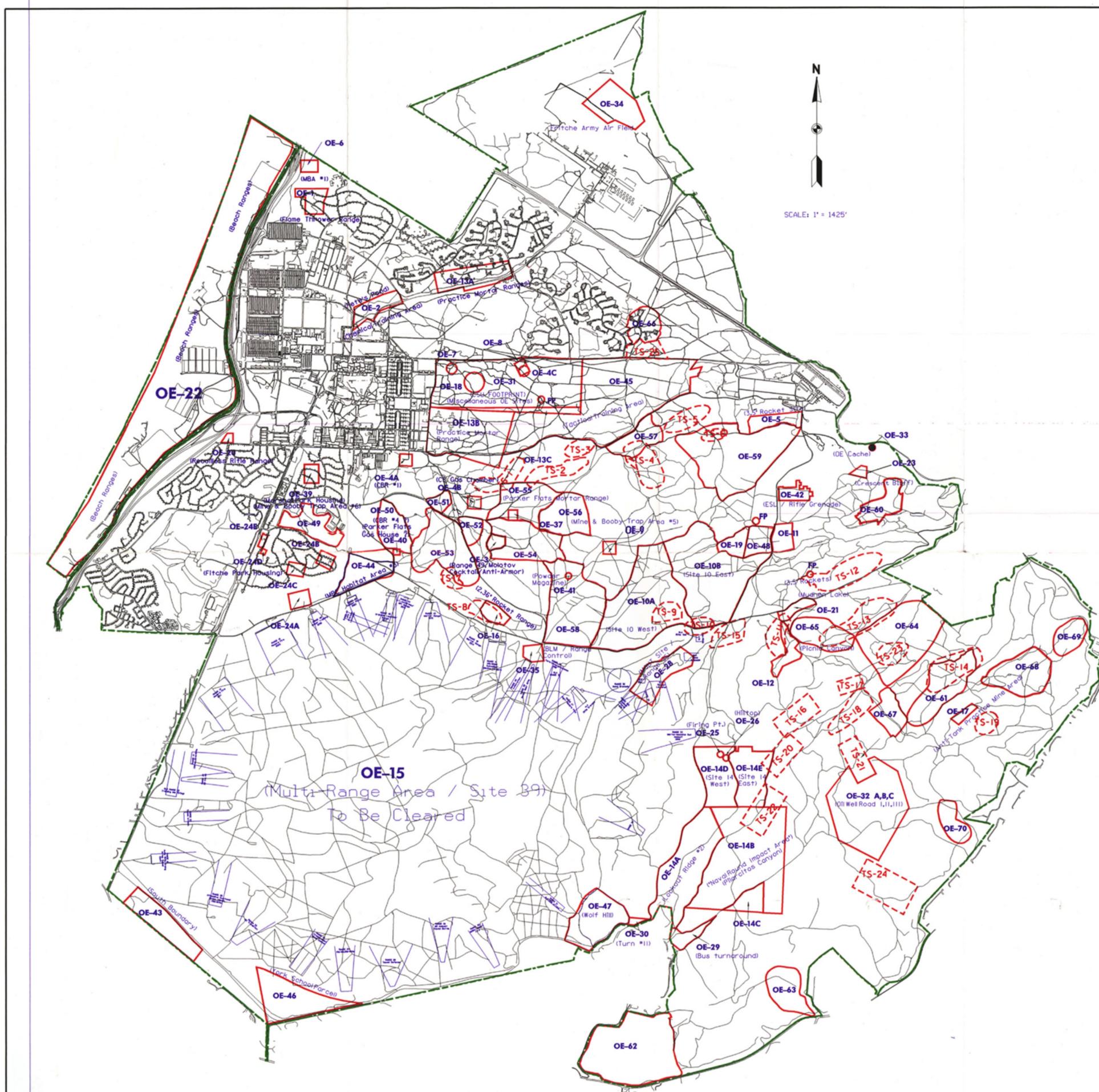
**R**  
**R/FS** Remedial Investigation/Feasibility Study  
**RRTA** Recoilless Rifle Training Area

**S**  
**SARA** Superfund Amendments and Reauthorization Act  
**SLD** St. Louis District Corps of Engineers  
**SMAW** Shoulder Fired Medium Assault Weapon  
**SPK** Sacramento District, Corps of Engineers

**T**  
**TCRA** Time Critical Removal Action  
**TRADOC** Training and Doctrine Command  
**TS** Training Site

**U**  
**USACE** U.S. Army Corps of Engineers  
**USAEDH** U.S. Army Engineer Division, Huntsville, AL  
**UXO** Unexploded ordnance

**W**  
**WNRC** Washington National Records Center

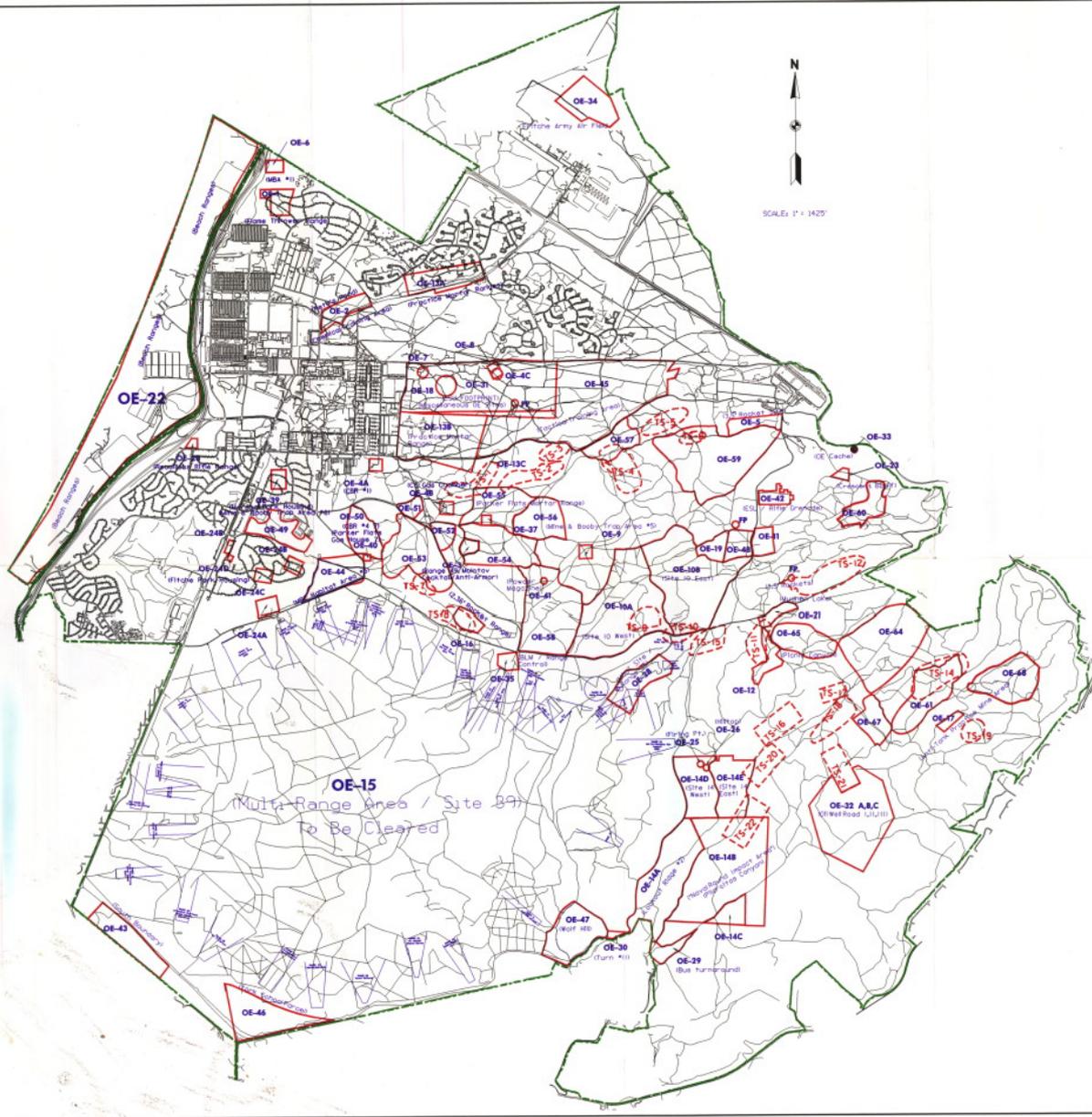


**LEGEND**

AREA	DESCRIPTION
OE-1	Flame thrower range
OE-2	Chemical training area
OE-3	Range 49, old demolition area
OE-4A	CBR
OE-4B	CS gas chamber
OE-4C	CBR
OE-5	3.5' rocket site
OE-6	Mine & booby trap area #1
OE-7	Mine & booby trap area #2
OE-8	Mine & booby trap area #3
OE-9	Mine & booby trap area #4
OE-10A	Site 10 - Leary Hill
OE-10B	Site 10 - Elliot Hill
OE-11	Demolition training area
OE-12	Picnic Canyon
OE-13A	Practice mortar ranges
OE-13B	Practice mortar ranges
OE-13C	Practice mortar ranges
OE-14A	Lookout Ridge # 2
OE-14B	Navalround Impact Area (Pilarcitos Canyon)
OE-14C	Site 14 South East
OE-14D	Site 14 West
OE-14E	Site 14 East
OE-15	Multi-range area
OE-16	2.36' rocket range
OE-17	Anti-tank practice mine area
OE-18	100 lb bomb
OE-19	Rifle grenade range
OE-20	Recoilless rifle range
OE-21	Mudhen Lake
OE-22	Beach ranges
OE-23	Engineer training area
OE-24A	Practice rifle grenade
OE-24B	Practice rifle grenade
OE-24C	Live hand grenade range
OE-24D	Booby trap area
OE-24E	Practice rifle grenade
OE-25	Firing point
OE-26	Hitstop within P-5
OE-27	Training Sites
OE-28	MOUT Site
OE-29	Laguna Seca Bus turnaround
OE-30	Laguna Seca Turn # 11
OE-31	CSU FootPrint (Miscellaneous OE Sites)
OE-32	A, B, C, D
OE-33	OE cache
OE-34	Fritche Army Air Field
OE-35	BLM / Range control
OE-36	Not Used
OE-37	Parker Flats mortar range
OE-38	Not used
OE-39	Marshpark Housing (Mine & booby trap area # 6)
OE-40	Parker Flats gas house
OE-41	Powder magazine
OE-42	Rifle grenade range
OE-43	South boundary area
OE-44	Monterey Peninsula College habitat preserve
OE-45	Tactical training area
OE-46	York School parcel
OE-47	Wolf Hill
OE-48	Former dummy grenade
OE-49	Former rifle grenade
OE-50	Artillery Hill
OE-52	Parker Flats Training Area
OE-53	Shoulder launched projectile
OE-54	Canyon target area
OE-55	Firing point and grenade area
OE-56	Machine gun area
OE-57	Training site per interview
OE-58	Training site per interview
OE-59	Training site per interview
OE-60	Training site per interview
OE-61	Grenade range
OE-62	Laguna Seca open spaces
OE-63	Canyon training rea
OE-64	Training site per interview
OE-65	Training site per interview
OE-66	Signal Corps small arms
OE-67	Training site per interview
OE-68	Training site per interview
OE-69	Training site per interview
OE-70	Training site per interview

**ALL TRAINING SITES SHOWN**

	<b>ORDNANCE AND EXPLOSIVES PROGRAM</b> U.S. ARMY CORPS OF ENGINEERS ST. LOUIS DISTRICT	
	<b>FORT ORD, CALIFORNIA</b> <b>BASE REALIGNMENT AND CLOSURE</b>	
<b>KNOWN AND SUSPECTED ORDNANCE AND EXPLOSIVE SITES LOCATED ON FORMER FORT ORD, CALIFORNIA</b>		
06-FEB-1998 11:04	DATE OF X YEAR mtoew9bsh11.crd1997arenoe-site2.dgn	PLATE NO. <b>1</b>



**LEGEND**

AREA	DESCRIPTION
OE-1	Flame thrower range
OE-2	Chemical training area
OE-3	Range #9, old demolition area
OE-4	CBP
OE-8	CS gas chamber
OE-4C	CBP
OE-5	3.5" rocket site
OE-6	Mine & booby trap area #1
OE-7	Mine & booby trap area #2
OE-8	Mine & booby trap area #3
OE-9	Mine & booby trap area #4
OE-10A	Site 10 - Leary Hill
OE-10B	Site 10 - Golan Hill
OE-11	Demolition training area
OE-12	Phoia Canyon
OE-13A	Practice mortar ranges
OE-13B	Practice mortar ranges
OE-13C	Practice mortar ranges
OE-14	Lowland Ridge # 1
OE-14B	Lowland Ridge impact area (Pahratta Canyon)
OE-14C	Site 14 South East
OE-14D	Site 14 West
OE-14E	Site 14 East
OE-15	Multi-range area
OE-16	2.5M rocket range
OE-17	anti-tank practice mine area
OE-18	100 lb mine
OE-19	Rifle grenade range
OE-20	Recoilless rifle range
OE-21	Hughes Line
OE-22	Beach ranges
OE-23	Engineer training area
OE-24	Practice rifle grenade
OE-24B	Practice rifle grenade
OE-24C	Live hold grenade range
OE-24D	Booby trap area
OE-24E	Practice rifle grenade
OE-25	Firing point
OE-26	strip mine P-5
OE-27	Training Street
OE-28	MST Site
OE-29	Laguna Soto Bus turnaround
OE-30	Laguna Soto Turn # 11
OE-31	CS Facility - Warehouse #2 Sites
OE-32	A, B, C, D
OE-33	OE cache
OE-34	Fortune Army Air Field
OE-35	BLM / Range control
OE-36	Not Used
OE-37	Parker Falls mortar range
OE-38	Not used
OE-39	Workshop House ( Mine & booby trap area # 4 )
OE-40	Parker Falls gas house
OE-41	Powder magazine
OE-42	Rifle grenade range
OE-43	South subsidiary area
OE-44	Monterey Peninsula College hazard preserve
OE-45	Tactical training area
OE-46	York Schoolhouse
OE-47	Well site
OE-48	Former duty granule
OE-49	Former rifle granule
OE-50	Artillery Hill
OE-52	Parker Falls Training Area
OE-53	Shooter tunnel projects
OE-54	Canyon target area
OE-55	Firing point undegraded area
OE-56	Machine gun area
OE-57	Training site per interview
OE-58	Training site per interview
OE-59	Training site per interview
OE-60	Training site per interview
OE-61	Grenade range
OE-62	Laguna Soto span spaces
OE-63	Canyon training area
OE-64	Training site per interview
OE-65	Training site per interview
OE-66	Signal Corps and area
OE-67	Training site per interview
OE-68	Training site per interview
OE-69	Training site per interview

**ORDNANCE AND EXPLOSIVES PROGRAM**  
 U.S. ARMY CORPS OF ENGINEERS  
 ST. LOUIS DISTRICT

**FORT ORD, CALIFORNIA**  
**BASE REALIGNMENT AND CLOSURE**

**ORDNANCE AND EXPLOSIVE SITES**  
**REQUIRING FURTHER INVESTIGATION**  
**OR DOCUMENTATION**  
**FORMER FORT ORD, CALIFORNIA**

DATE OF E YEAR

PLATE NO. **2**

~~Refer~~ Legend Delicpher

5. \_\_\_\_\_ Road
6. \_\_\_\_\_ Beach Road
8. Tenth Street Sewage Plant Road.
10. Old County Road
11. North-South Road
13. Engineer Parking Lot Road
14. Soldiers Club Road
15. Water Wells Road
16. Hospital Road
17. Fifth Avenue Extension
18. Sanitary Fill Road
20. Intergarrison Road
21. Austin Road
25. \_\_\_\_\_ Road
27. Bench Mark Beach Road
28. Eight mile Gate Road
29. Nursery Road
30. Bigling Road
31. Eucalyptus Cut-off
32. ~~at~~ Igloo? Road
33. Bench Mark Beach Cut-off
34. Magazine Beach Cut-off
38. Old South Beach Road

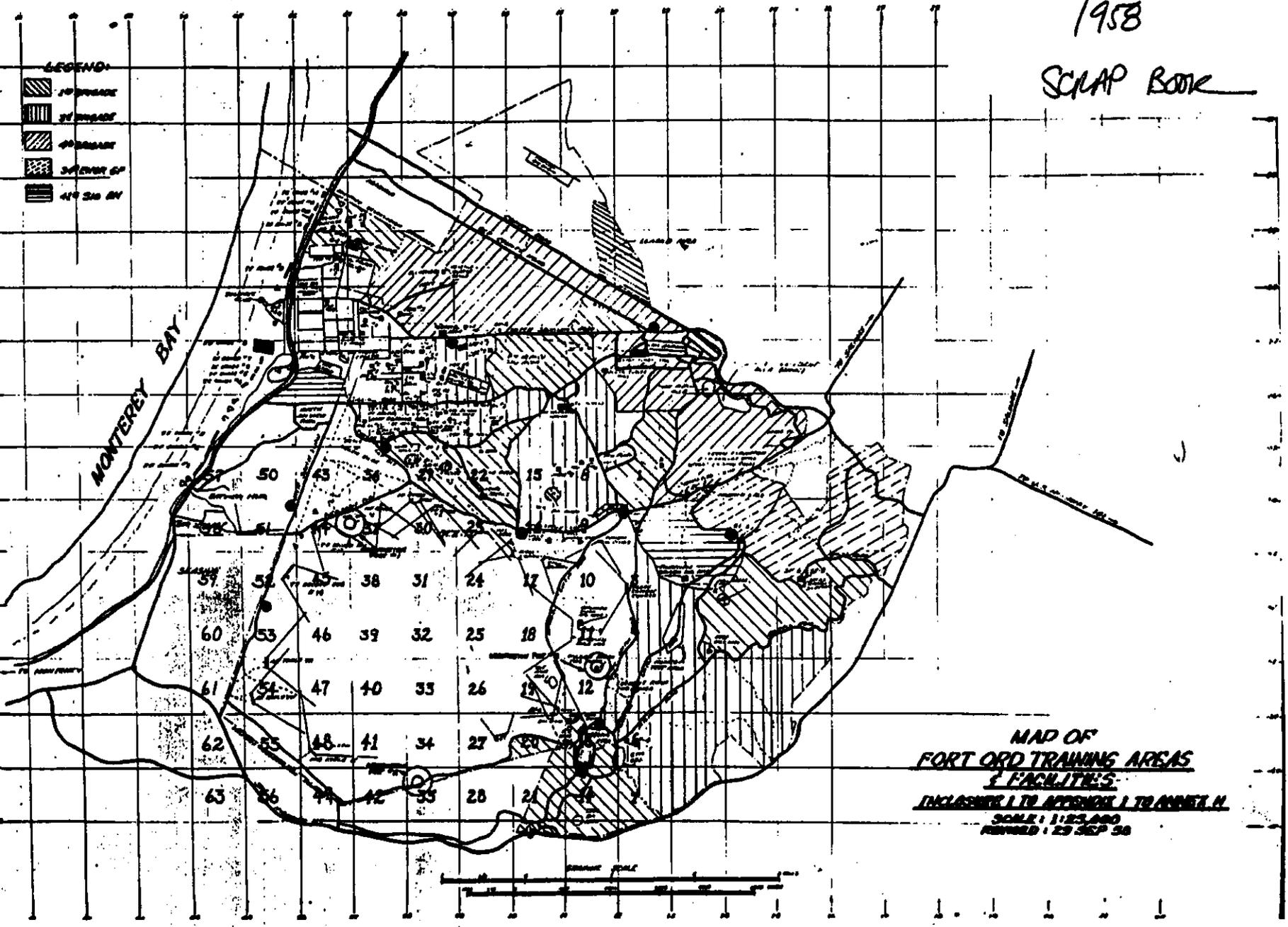


- 40 Parker Flats Road
- 42 \_\_\_\_\_ Road
- 44 Gypsum Well Road
- 46 Parker Flats Cutoff
- 50 Eucalyptus Road
- 51 Richardson ~~able~~ Road
- 52 Tower Road
- 53 Rocket Launcher Road
- 60 Wathin-Cate Road
- 61 Hennekens Ranch Road
- 63 Impossible Canyon Road
- 66 Pilarcitos Road
- 70 Johns Road
- 71 Bortory Canyon Road
- 72 Laguna Seca Road
- 76 Skyline Road
- 77 Hildotti Road
- 83 Mud Hen Cut-off
- 89 Crescent Bluff Road
- 90 Old South Boundary Road
- 91 Engineer Canyon Road
- 94 Oil Well Road.

1958

SCRAP BOOK

- LEGEND:
-  10' WINDAGE
  -  20' WINDAGE
  -  40' WINDAGE
  -  SUPERVISOR'S OFFICE
  -  419 2nd ST



**MAP OF  
FORT ORD TRAINING AREAS  
& FACILITIES  
INCLOSURE I TO ATTACHED I TO ORDER N  
SCALE 1:125,000  
REVISED 29 SEP 58**

Ten each double faced forest fire prevention signs were placed at strategic locations

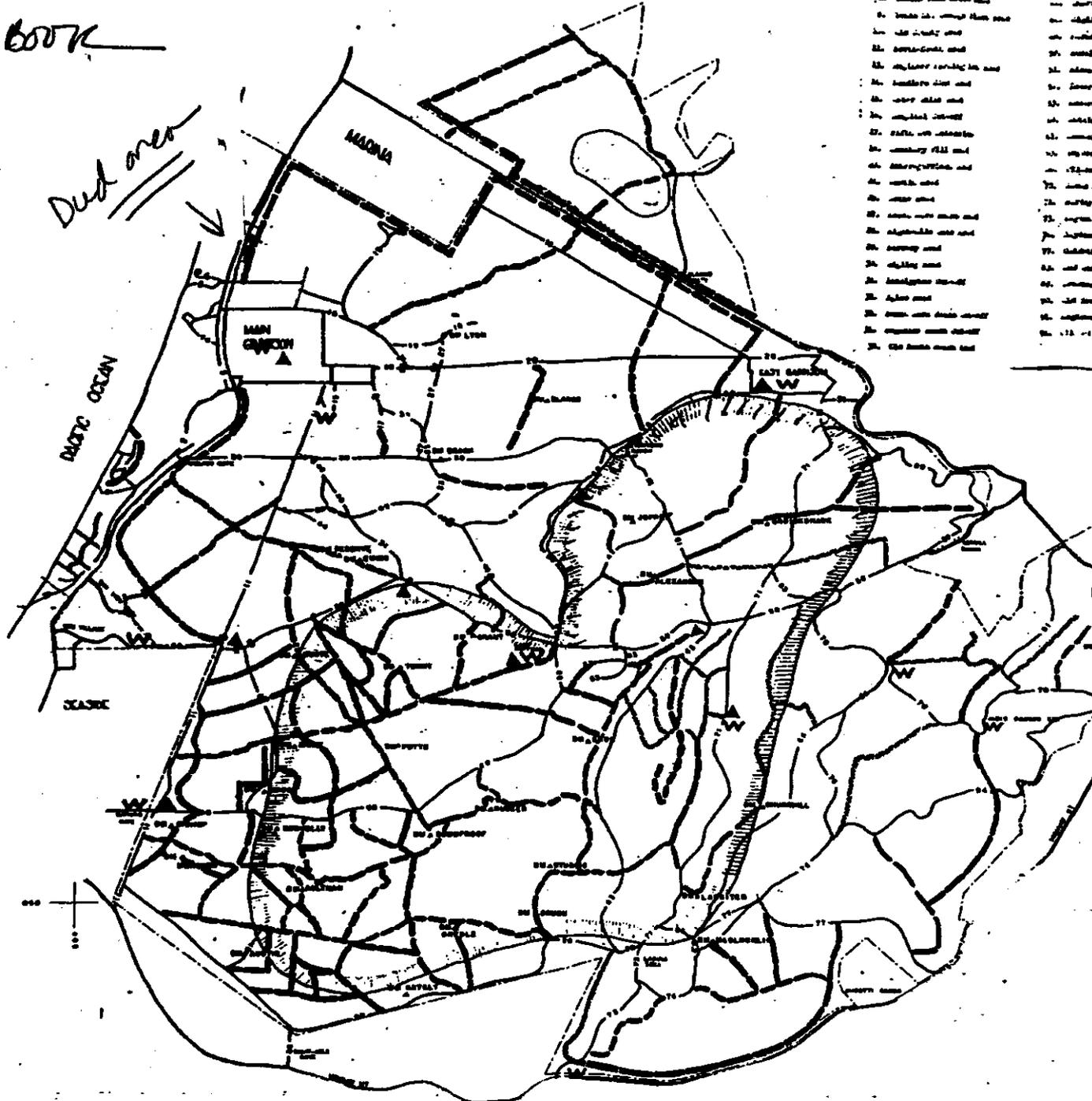
# FIRE DEPARTMENT

1960

SCRAP BOOK

- 1. map and
- 2. scale
- 3. title
- 4. north arrow
- 5. legend
- 6. index
- 7. notes
- 8. symbols
- 9. abbreviations
- 10. etc.

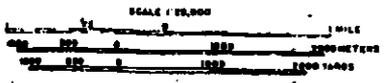
*Dud area*



**LEGEND**

- ▲ FIELD PHONE
- W WATER SUPPLY POINTS
- ➔ AREA OF UNUSUAL HAZARD / POSSIBLE LIVE DUD AREA
- ⊕ TANK CROSSINGS
- RESERVATION BOUNDARY
- CONNECTING STREET, PRIVATE / COUNTY ROADS / HIGHWAYS
- ROADS MAINTAINED BY FORD
- FIREBREAKS - TRAVERSABLE
- FIREBREAKS - NON-TRAVERSABLE

**BASIC INFORMATION**  
**FIREBREAK MAP**  
**FORT ORD, CALIF.**

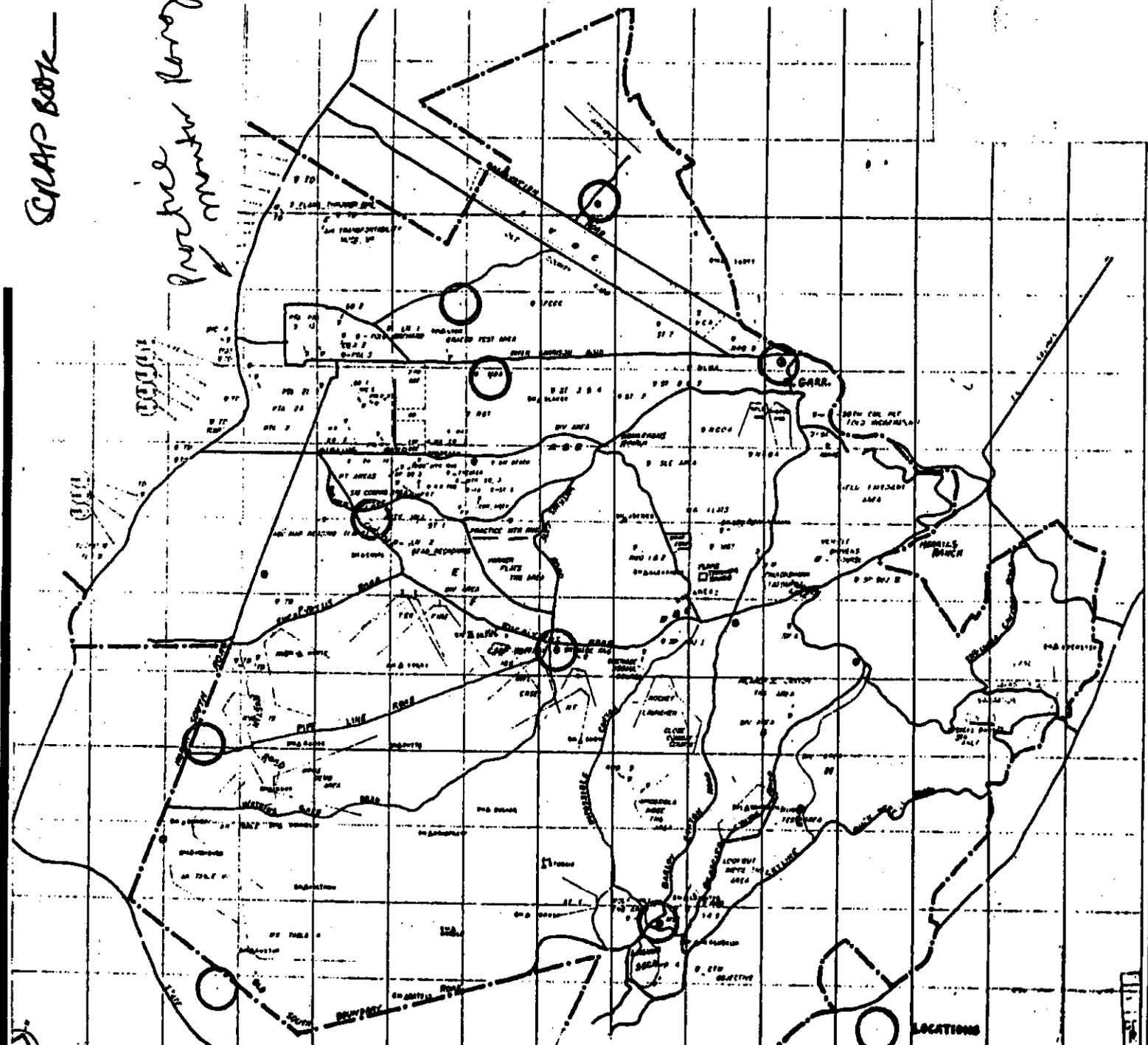


FIRE DEPARTMENT

1969

SNAP BOOK

practice range



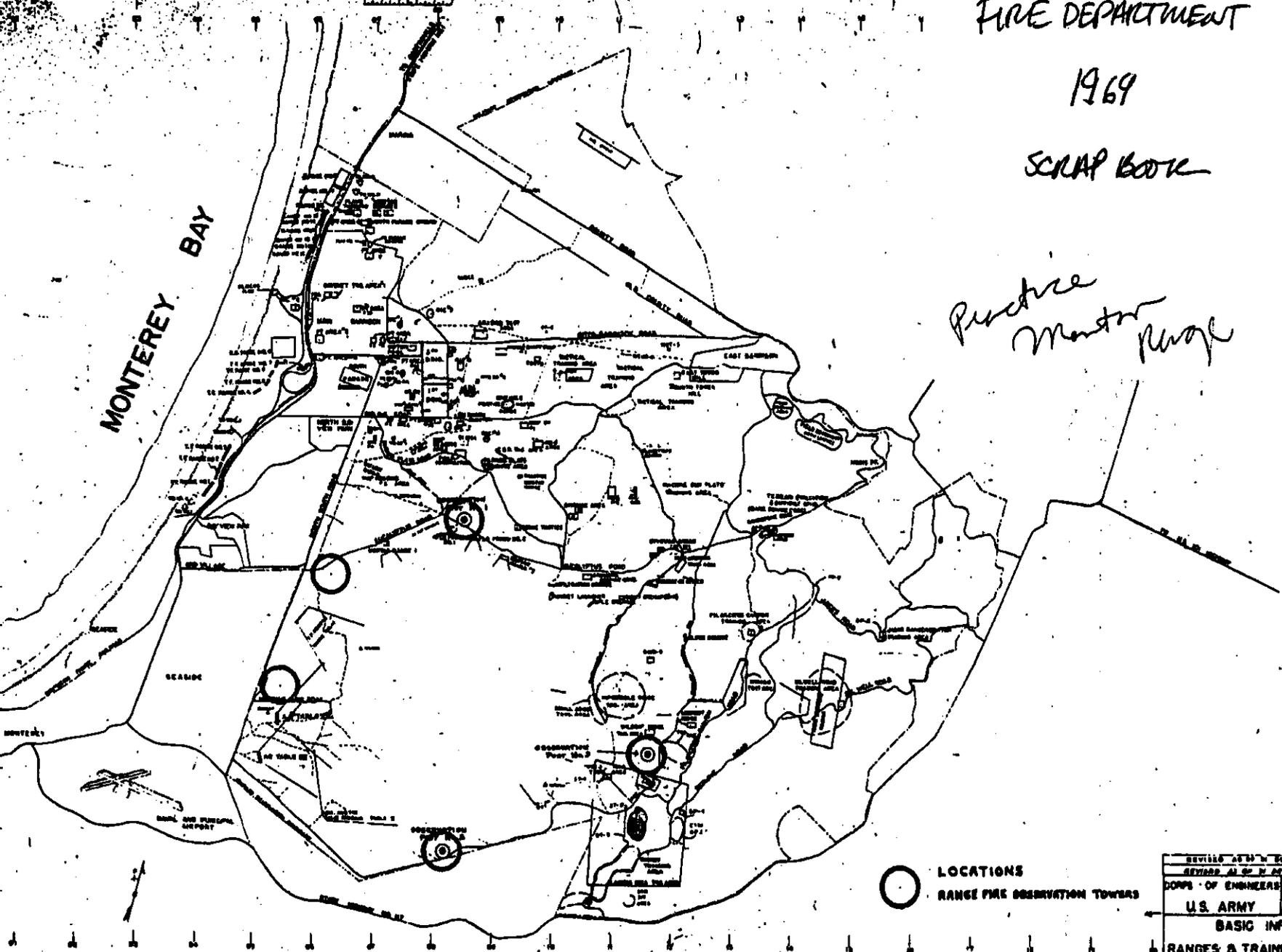
FIRE DEPARTMENT

1969

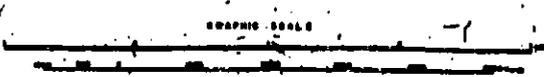
SCRAP BOOK

*Practice  
Monterey  
Range*

MONTEREY BAY



○ LOCATIONS  
○ RANGE FIRE OBSERVATION TOWERS

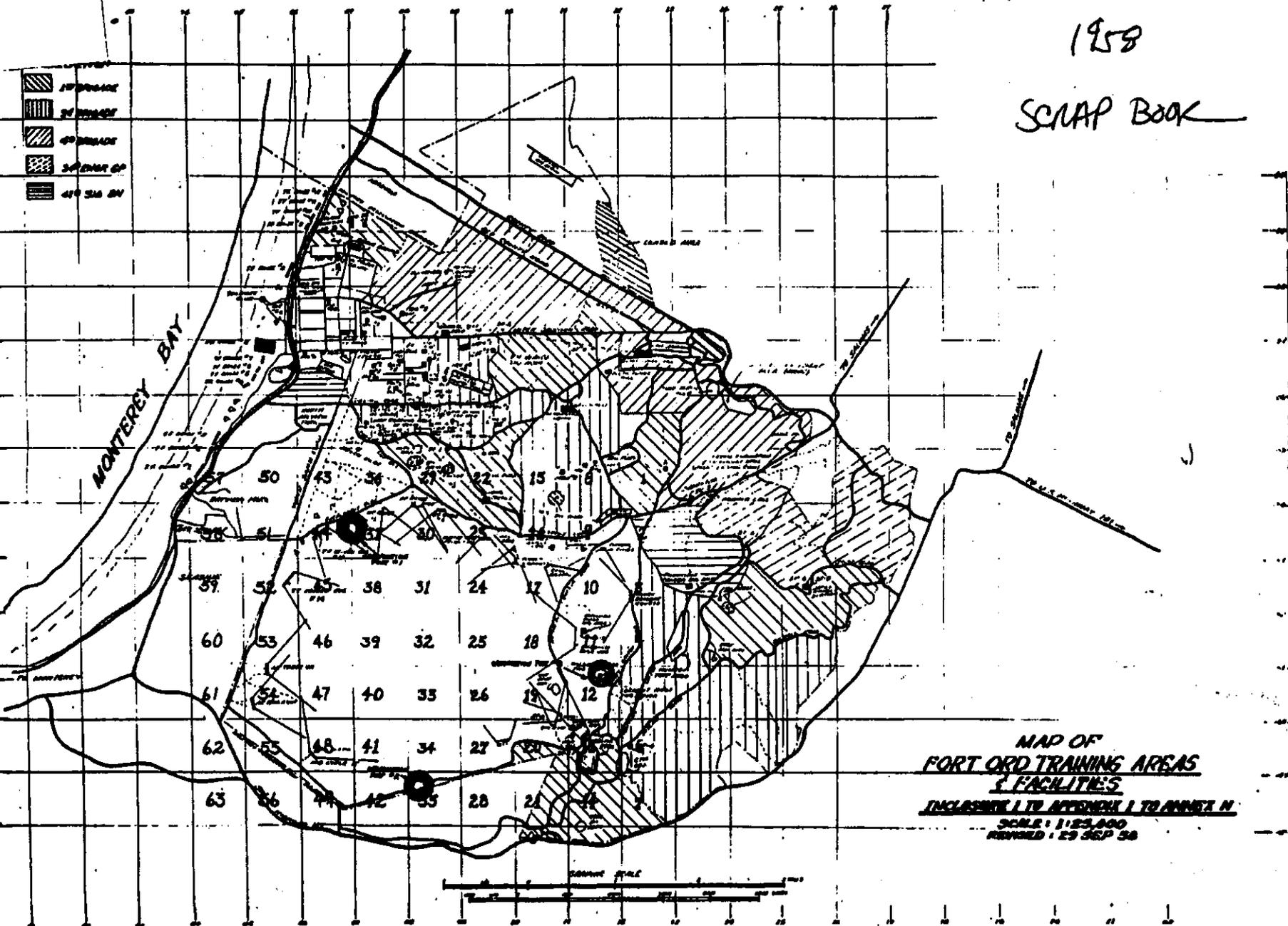


REVISED 4-23-70
REVISED 4-23-70
CORPS OF ENGINEERS
U.S. ARMY
BASIC INF
RANGES & TRAIN
ALL
SCALE: 1" = 25,000'

FIRE DEPARTMENT USA.

1958

SNAP BOOK

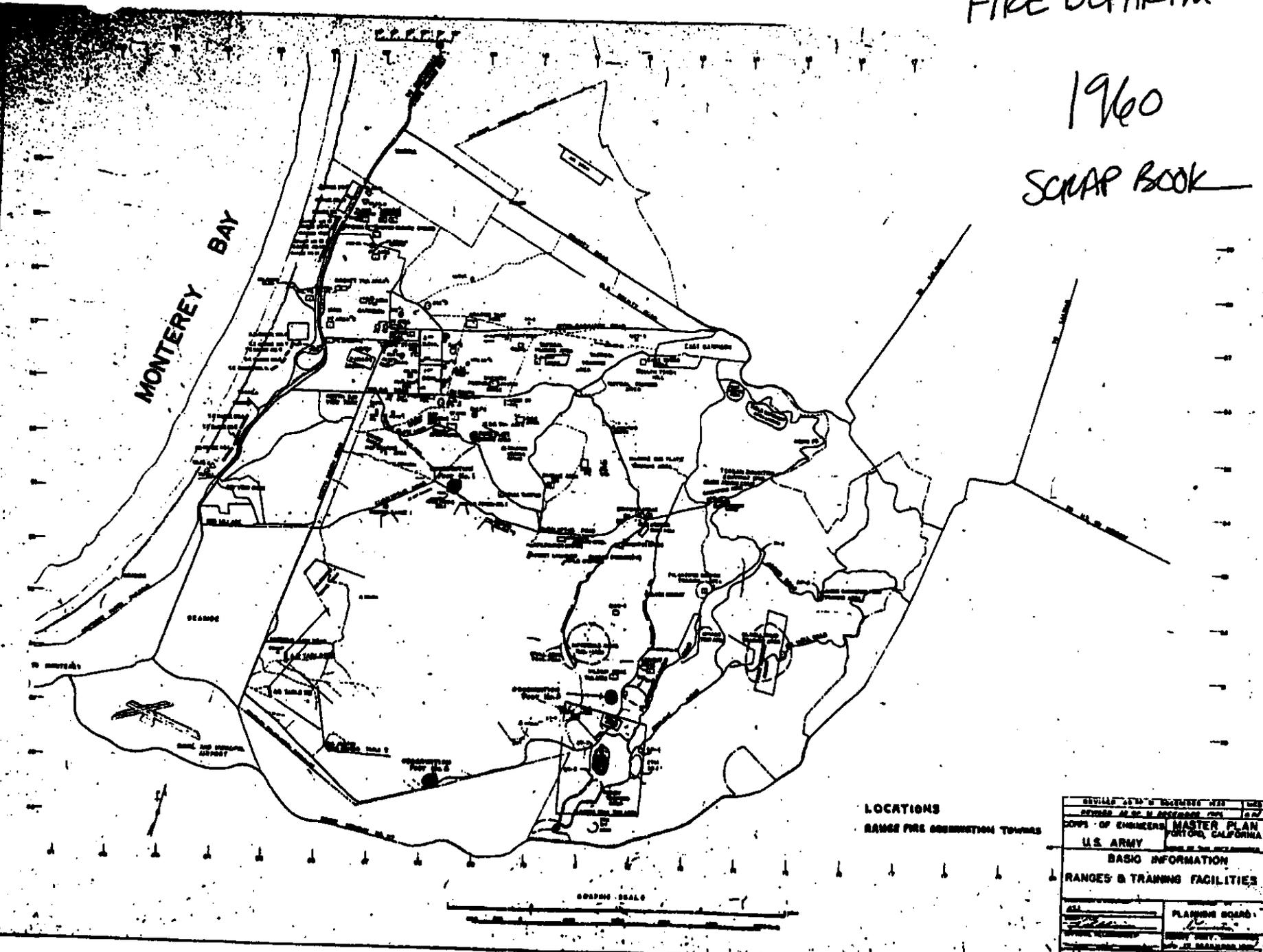


Encircled observation towers are manned by Impact Area Headquarters personnel when training is in progress to assist fire department in locating and receiving immediate reports of fires.. Fires are reported by block numbers as indicated.

FIRE DEPARTMENT

1960

SCRAP BOOK



LOCATIONS  
RANGE FIRE OBSERVATION TOWERS

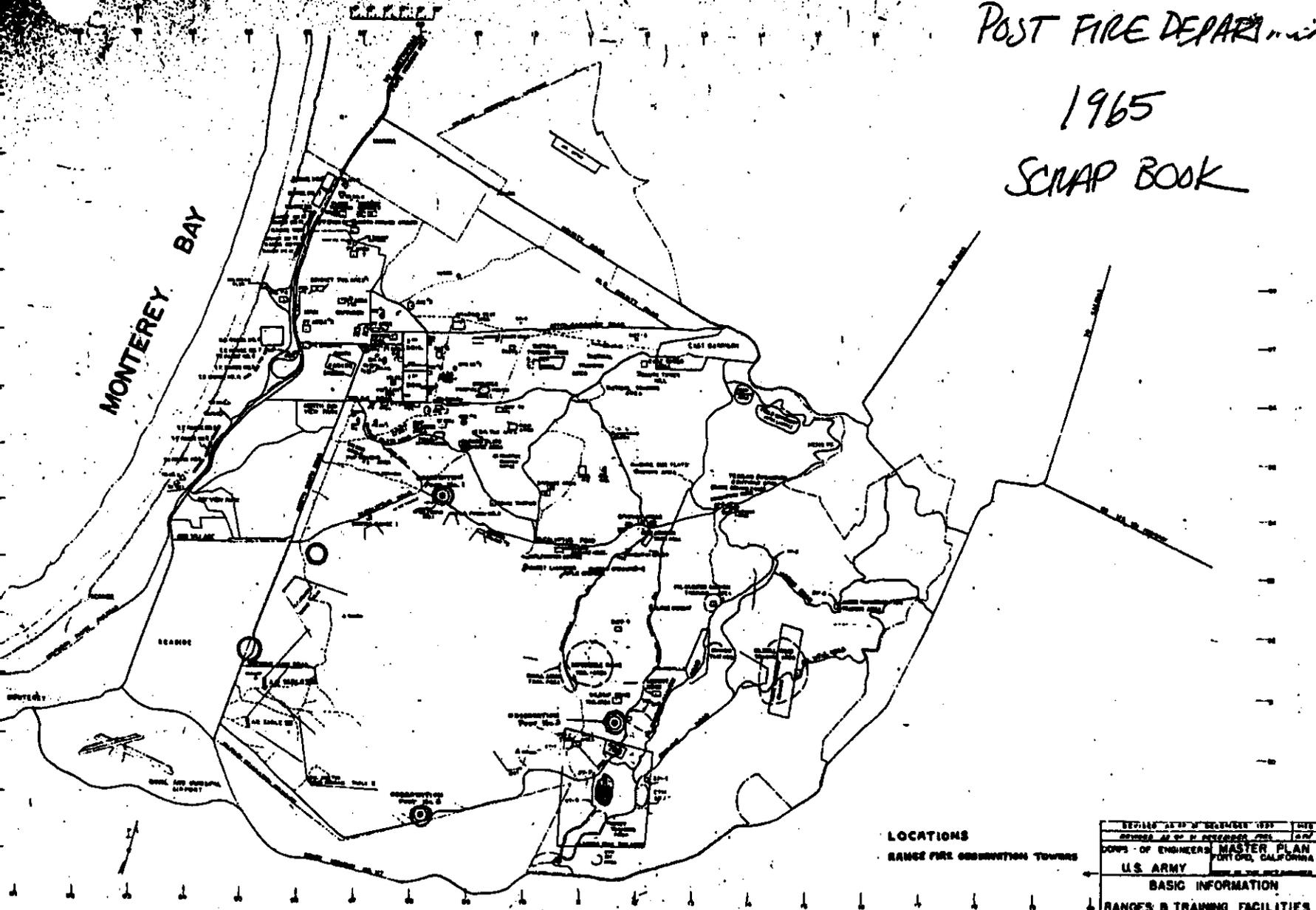
ENGINEER'S MASTER PLAN	
CORPS OF ENGINEERS, PORTLAND, CALIFORNIA	
U.S. ARMY	
BASIC INFORMATION	
RANGES & TRAINING FACILITIES	
DATE	PLANNING BOARD
BY	BY
SCALE 1:25,000	PLANNING NO. 28

POST FIRE DEPARTMENT

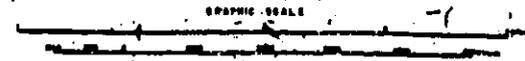
1965

SNAP BOOK

MONTEREY BAY



LOCATIONS  
RANGE FIRE OBSERVATION TOWERS



DESIGNED BY: J. W. BROWN (1953)	DATE: 1965
DRAWN BY: J. W. BROWN (1953)	DATE: 1965
CORPS OF ENGINEERS MASTER PLAN FORT ORD, CALIFORNIA	
U.S. ARMY	
BASIC INFORMATION	
RANGES & TRAINING FACILITIES	
SCALE: 1" = 25,000'	DRAWING NO. 2 B

**APPENDIX B**

**OE FILES SEARCH FORMS**

## FORT ORD – OE FILES SEARCH

1. Site/Range: Training Area-A, I
  2. Source: Former Range Control Files
  3. Physical Location of Info: Building 4527 - Former Fort Ord
  4. Subject: Request to develop an SOP for the sweep and clearing of open areas near housing areas to insure any dud ammunition that may be present is properly disposed of and the requested SOP in draft format with maps. Dec. 1976.
  
  5. Author: Army
  6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186
  7. Document No.: NA
- 

1. Site/Range: TSEG-C Combat Leader Course
  2. Source: Former Range Control Files
  3. Physical Location of Info: Building 4527 - Former Fort Ord
  4. Subject: Lesson Plan for Operation Gallant Lancer (Leadership Reaction Course) with safety information sheet. June 10, 1986.
  
  5. Author: Army
  6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186
  7. Document No.: NA
- 

1. Site/Range: Training Area-R
  2. Source: Former Range Control Files
  3. Physical Location of Info: Building 4527 - Former Fort Ord
  4. Subject: Empty File.
  
  5. Author: Army
  6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186
  7. Document No.: NA
- 

1. Site/Range: Training Area-S
  2. Source: Former Range Control Files
  3. Physical Location of Info: Building 4527 - Former Fort Ord
  4. Subject: Empty File.
  
  5. Author: Army
  6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186
  7. Document No.: NA
-

1. Site/Range: Range P-5/OE-14D  
2. Source: Former Range Control Files  
3. Physical Location of Info: Building 4527 - Former Fort Ord  
4. Subject: Disposition Form requesting that a portion of area P be set aside for use for the construction of a 14.5 mm Simulator Range (March 30, 1976). Standard Operating Procedures Range P-5 (14.5 Artillery and Mortar Sub-Caliber Range, September 19, 1983). M31 Range map (and one copy) firing point grid list, observation point grid list, and declination stations.

5. Author: Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

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1. Site/Range: G-4 Training Areas, G-1 Confidence Course, G-2 Obstacle Course  
2. Source: Former Range Control Files  
3. Physical Location of Info: Building 4527 - Former Fort Ord  
4. Subject: G-4 – map showing location of course locations and troop area (~1981)  
G-1 – map showing elements of confidence course  
G-2 – obstacle course elements

5. Author: Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

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1. Site/Range: Training Area-G-5 Circuit Interval Course  
2. Source: Former Range Control Files  
3. Physical Location of Info: Building 4527 - Former Fort Ord  
4. Subject: Empty File.

5. Author: Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

---

1. Site/Range: Training Area-K  
2. Source: Former Range Control Files  
3. Physical Location of Info: Building 4527 - Former Fort Ord  
4. Subject: Document requesting DRMO assistance in the disposal of 8 M-103 tank hulls.  
(February 28, 1994)  
  
5. Author: Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

---

1. Site/Range: Training Area-M  
2. Source: Former Range Control Files  
3. Physical Location of Info: Building 4527 – Former Fort Ord  
4. Subject: Empty File.  
  
5. Author: Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

---

1. Site/Range: TS L 3 & 8 Parachute Drop Zone  
2. Source: Former Range Control Files  
3. Physical Location of Info: Building 4527 – Former Fort Ord  
4. Subject: Parachute Drop Zone approvals (1985). Drop Zone Machine Gun Flats (FR120  
553) L-3, Drop Zone ATTU (FR 111561) L-8  
  
5. Author: Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

---

1. Site/Range: Training Area-Q  
2. Source: Former Range Control Files  
3. Physical Location of Info: Building 4527 – Former Fort Ord  
4. Subject: Empty File.  
  
5. Author: Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

---

1. Site/Range: Training Area-O Land Navigation Course  
2. Source: Former Range Control Files  
3. Physical Location of Info: Building 4527 – Former Fort Ord  
4. Subject: Briefing for Land Navigation Course.  
  
5. Author: Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

---

1. Site/Range: Training Area-P  
2. Source: Former Range Control Files  
3. Physical Location of Info: Building 4527 – Former Fort Ord  
4. Subject: Empty File.  
  
5. Author: Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

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1. Site/Range: Training Area-N Lookout Ridge TS-16  
2. Source: Former Range Control Files  
3. Physical Location of Info: Building 4527 – Former Fort Ord  
4. Subject: Photographs of Lookout Ridge 1, 2 and 3.  
  
5. Author: Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

---

1. Site/Range: TS EG-A Driving Course  
2. Source: Former Range Control Files  
3. Physical Location of Info: Building 4527 – Former Fort Ord  
4. Subject: Heavy Vehicle Driver training course built in March 1971 located at East Garrison between Inter-Garrison and North Camp Street. Includes Wash Racks. No indication of OE use.  
  
5. Author: Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

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1. Site/Range: Artillery Firing Points  
2. Source: Former Range Control Files  
3. Physical Location of Info: Building 4527 – Former Fort Ord  
4. Subject: SOPs for firing positions 1, 2, and 3.  
  
5. Author: Army  
6. Contact: Fort Ord Administrative Record Coordinator  
    Name: Environmental and Natural Resources  
    Address: ATTN: Community Relations, P.O. Box 5004  
    City & State: Monterey, CA 93944-5004  
    Phone: 831 393 9186  
7. Document No.: NA

---

1. Site/Range: Training Area-L Interim MOUT Site (Henneken)  
2. Source: Former Range Control Files  
3. Physical Location of Info: Building 4527 – Former Fort Ord  
4. Subject: Training for 7<sup>th</sup> Infantry on building entry/defense. Construction began in 1983. Destroyed by fire in December 1983. Construction began again in 1984.  
  
5. Author: Army  
6. Contact: Fort Ord Administrative Record Coordinator  
    Name: Environmental and Natural Resources  
    Address: ATTN: Community Relations, P.O. Box 5004  
    City & State: Monterey, CA 93944-5004  
    Phone: 831 393 9186  
7. Document No.: NA

---

1. Site/Range: EG Ranges 1, 2, 3, Skeet R., Mini-Tank Range  
2. Source: Former Range Control Files  
3. Physical Location of Info: Building 4527 – Former Fort Ord  
4. Subject: Skeet and Trap Range Operations describing the operating and safety procedures for the Fort Ord Rod and Gun Club skeet and trap ranges, December 29, 1975. Request for East Garrison Ranges 3 and 4 and the Mini Range, April 3, 1987. Recommendation for site selection for deployment of Deployable Medical Systems MUST Hospital Unit. Disposition Form for the completion of the Mini-Tank Range, Nov. 18, 1983. Memo regarding transfer of responsibility for East Garrison Ranges 1, 2, and 3 to the Fort Ord Shooting Center, Oct. 22, 1990. SOPs for Ranges 1, 2, and 3.  
  
5. Author: Army  
6. Contact: Fort Ord Administrative Record Coordinator  
    Name: Environmental and Natural Resources  
    Address: ATTN: Community Relations, P.O. Box 5004  
    City & State: Monterey, CA 93944-5004  
    Phone: 831 393 9186  
7. Document No.: NA

---

1. Site/Range: Training Area-F
  2. Source: Former Range Control Files
  3. Physical Location of Info: Building 4527 – Former Fort Ord
  4. Subject: Mechanical Compass Course for Division Wide General Use Site, Training Area F. Ecology Memo (5/71) – Mechanized Vehicle Training, maps showing routes, training areas for vehicles (copy maps showing training areas).
  
  5. Author: Army
  6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186
  7. Document No.: NA
- 

1. Site/Range: Training Area-J
  2. Source: Former Range Control Files
  3. Physical Location of Info: Building 4527 – Former Fort Ord
  4. Subject: June 12, 1991. Map indicates Training Area J-2 lies between Parker Flats Road and Eucalyptus bounded on the east side by Watkins Gate Road. Area surveyed for dud ammunition completed June 11, 1991. Area burned (controlled burn) by Wildland Fire School on June 7, 1991. Memo indicates that additional area within J-2 requires burning before area can be cleared of ordnance. OE noted includes 2.36-inch rockets and rifle grenades (WWII era range). Map describes the area as containing an “Anti-Armor Confidence Course”.
  
  5. Author: Army
  6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186
  7. Document No.: NA
- 

1. Site/Range: Training Area-H
  2. Source: Former Range Control Files
  3. Physical Location of Info: Building 4527 – Former Fort Ord
  4. Subject: Photographs showing Base Camp Bravo Training Area H. Dec. 27, 1972, Memo regarding the transfer of training facilities to caretaker status due to the discontinuance of AIT at Fort Ord. Disposition form relieving units of further responsibility for the listed training facilities.
  
  5. Author: Army
  6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186
  7. Document No.: NA
-

1. Site/Range: TS J-5 & 6
  2. Source: Former Range Control Files
  3. Physical Location of Info: Building 4527 – Former Fort Ord
  4. Subject: SOPs for J-5, J-6 Anti-Armor Confidence Course and Anti-Armor/Range 49 Course. Anti-Tank Confidence Course description including maps of the stations and a description of their utilization.
  
  5. Author: Army
  6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186
  7. Document No.: NA
- 

1. Site/Range: G-12 NBC Integrated Training Area N-1, N-2
  2. Source: Former Range Control Files
  3. Physical Location of Info: Building 4527 – Former Fort Ord
  4. Subject: LOI for the NBC Integrated Training Area. Includes an integrated training scenario example, example tasks, required personnel and equipment. Maps of training areas N-1 and N-2, showing live fire reaction course.
  
  5. Author: Army
  6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186
  7. Document No.: NA
- 

1. Site/Range: Site 39
  2. Source: Topographic Map of Monterey County
  3. Physical Location of Info: POM Historian Office
  4. Subject: Monterey County Topographic Map. Shows a portion of MRA only and Southern Installation boundary. Includes Camp Huffman and Mock-up Village. Compiled 1947; rev. 1950. Reverse side is a 1:25,000 Air Photo of the same area – some ranges are visible. Aerial is 1945.
  
  5. Author: Army Map Service
  6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186
  7. Image File: NA
-

1. Site/Range: Fort Ord  
2. Source: 1946 Master Plan  
3. Physical Location of Info: POM Historian Office  
4. Subject: April 5, 1946 Master Plan. Series of Maps (21 Sheets). Shows all of Fort Ord including existing training areas. It is broken up into letter designated areas. (D-Fritze, Beach Ranges L/M, etc.) This series also includes the POM.  
  
5. Author: U.S. Engineer Office, San Francisco, CA  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File.: NA

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1. Site/Range: Various  
2. Source: Aerial Photographic Analysis of Fort Ord Military Reservation  
3. Physical Location of Info: DENR Office  
4. Subject: Interpretation of a variety of aerial photographs. From 1941 to 1992.  
  
5. Author: EPA Region IX  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Fort Ord  
2. Source: Cartwright Aerial Survey Inc.  
3. Physical Location of Info: BLM Office (former Range Control)  
4. Subject: 1986 (3125) Aerial photo mosaic. Sheet 1 of 1 (Black and White) 1" = 1000' DACA05-86-D-0053 Order No. 3 Color Photography.  
5. Author: U.S. Army Corps of Engineers; photographer D. Huntington  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: OE Sites 14A-C, -29, -30, -47, -62 and -63  
2. Source: Monterey County Soil Survey  
3. Physical Location of Info: BLM Fort Ord Project Office  
4. Subject: Aerial photograph with soil type interpretation. Laguna Seca area. 8/1/56  
5. Author: Monterey Co.  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Camp Ord  
2. Source: Salinas Daily Index Microfilm, July-Dec 1917  
3. Physical Location of Info: Salinas Branch of the Monterey County Library  
4. Subject: Real Estate Transaction, discusses original purchase of a portion of the property that would later become Fort Ord.  
  
5. Author: Salinas Daily Index  
6. Contact: Seaside Branch  
    Name: Reference Desk  
    Address: 550 Harcourt Ave. SE  
    City & State: Seaside, CA  
    Phone: 831 899 2055  
7. Image File: NA

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1. Site/Range: Camp Ord  
2. Source: Salinas Daily Index Microfilm, July – December 1917  
3. Physical Location of Info: Salinas Branch of the Monterey County Library  
4. Subject: Deeds filed by the U.S. Government for original land purchase.  
  
5. Author: Salinas Daily Index  
6. Contact: Seaside Branch  
    Name: Reference Desk  
    Address: 550 Harcourt Ave. SE  
    City & State: Seaside, CA  
    Phone: 831 899 2055  
7. Image File: NA

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1. Site/Range: Fort Ord  
2. Source: USDA-SCS  
3. Physical Location of Info: BLM Fort Ord Project Office  
4. Subject: Set of six aerial photographs. Black and White.  
8/17/49  
5. Author: U.S. Department of Agriculture, Soil Conservation Service  
6. Contact: Fort Ord Administrative Record Coordinator  
    Name: Environmental and Natural Resources  
    Address: ATTN: Community Relations, P.O. Box 5004  
    City & State: Monterey, CA 93944-5004  
    Phone: 831 393 9186  
7. Image File: HR\_00022 – 00027.jpg

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1. Site/Range: East Garrison (only)  
2. Source: USDA-SCS  
3. Physical Location of Info: BLM Fort Ord Project Office  
4. Subject: USDA-SCS November 1972. 1:24,000  
  
5. Author: USDA-SCS  
6. Contact: Fort Ord Administrative Record Coordinator  
    Name: Environmental and Natural Resources  
    Address: ATTN: Community Relations, P.O. Box 5004  
    City & State: Monterey, CA 93944-5004  
    Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: North of MRA  
2. Source: Monterey County Soil Survey  
3. Physical Location of Info: BLM Fort Ord Project Office  
4. Subject: Aerial photograph with soil type interpretation. Northern MRA to Inter-Garrison Road.  
5/14/56  
5. Author: Monterey County  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: HR\_00021.jpg

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1. Site/Range: All of Fort Ord  
2. Source: Unknown  
3. Physical Location of Info: BLM Fort Ord Project Office  
4. Subject: 1980 Aerial Photograph.  
5. Author: Unknown.  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: HR\_map2.jpg

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1. Site/Range: ----  
2. Source: Salinas Daily Index Microfilm, January – June 1910  
3. Physical Location of Info: Salinas Branch of the Monterey County Library  
4. Subject: School of Musketry will leave Presidio of Monterey, reference to soldiers going to Gigling for field firing.  
5. Author: Salinas Daily Index  
6. Contact: Reference Desk  
Name: Seaside Branch  
Address: 550 Harcourt Ave. SE  
City & State: Seaside, CA  
Phone: 831 899 2055  
7. Image File: NA

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1. Site/Range: ----  
2. Source: Salinas Daily Index Microfilm, July – December 1910  
3. Physical Location of Info: Salinas Branch of the Monterey County Library  
4. Subject: Soldiers are on a long hike, reference to soldiers from Presidio of San Francisco camping on the Jacks Ranch across the river from Hill Town.  
5. Author: Salinas Daily Index.  
6. Contact: Reference Desk  
Name: Seaside Branch  
Address: 550 Harcourt Ave. SE  
City & State: Seaside, CA  
Phone: 831 899 2055  
7. Image File: NA

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1. Site/Range: Fort Ord, Main Garrison & South
  2. Source: Aerial Photo Map, War Department, Corps of Engineers
  3. Physical Location of Info: UC Berkeley, Earth Sciences Library, McCone Hall
  4. Subject: Aerial Photo Map, 1942. Scale 1 to 20,000. From 1937, 1939, 1941, and 1942 Photographs. Sheet 73-27.
  
  5. Author: 29<sup>th</sup> Engineer Reproduction Plant, Portland, OR 1942.
  6. Contact: Earth Sciences Library
    - Name: Reference Desk
    - Address: Earth Sciences Library, McCone Hall, U.C. Berkeley
    - City & State: Berkeley, CA
    - Phone: 510 642 2997
  7. Image File: NA
- 

1. Site/Range: Fort Ord, Main Garrison, FAAF
  1. Source: Aerial Photo Map, 1943, Revised 1945
  3. Physical Location of Info: U.C. Berkeley, Earth Sciences Library, McCone Hall
  4. Subject: Aerial Photograph Map, 1943, Revised 1945. Scale 1-25,000. From 1941 Aerial Photograph by Fairchild Aerial Surveys, Inc., Long Island City, NY, July–August 1941.
  
  5. Author:
  6. Contact: Earth Sciences Library
    - Name: Reference Desk
    - Address: McCone Hall, U.C. Berkeley
    - City & State: Berkeley, CA
    - Phone: 510 642 2997
  7. Image File: NA
- 

1. Site/Range: Fort Ord
  2. Source: Signal Corp; Hearst Metrotone News; RKO Pathe News – Misc. film, No. 541
  3. Physical Location of Info: Original – National Archives, College Park, MD.
  4. Subject: Activities at Camp Ord, Calif. 1940 (5 reels); Infantry training and drills, tank maneuvers, mortar and artillery fire, barracks construction. Reel 2 does not appear to be at Camp Ord.
  
  5. Author: Signal Corp
  6. Contact: Motion Picture Sound and Video Branch
    - Name: National Archives
    - Address: 8601 Adelphi road
    - City & State: College Park, MD 20740-6001
    - Phone: 301 713 7060
  7. Image File: NA
- 

1. Site/Range: Fort Ord, Training Areas J, K, Main Garrison
  2. Source: Digitized from graphic map figure provided by HLA.
  3. Physical Location of Info: Monterey Project Office
  4. Subject: Clean Parcel Assessment and Expected Locations of Unexploded Ordnance.
  5. Author: U.S. Army
  6. Contact: Fort Ord Administrative Record Coordinator
    - Name: Environmental and Natural Resources
    - Address: ATTN: Community Relations, P.O. Box 5004
    - City & State: Monterey, CA 93944-5004
    - Phone: 831 393 9186
  7. Image File: HR\_lit0002.jpg
-

1. Site/Range: Fort Ord; Ranges 1-18  
2. Source: St. Louis Corps of Engineers  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Training Areas that cannot be used at the same time; Arty. Positions; Mort. Positions; training areas. Incl. I, to App. A, to Annex O. Made after 1953.  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
8. 7. Image File: HR\_00035.jpg

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1. Site/Range: Training Areas M, O, D, N, E, P, F, K-1, K-2, G-1, G-2, L, I, H-1, H-2, H-3, C-2, B; Combat Ranges 1, 2, 3.  
2. Source: U.S. Army  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Training Facilities, Fort Ord and Vicinity  
8/45  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: HR\_0002.jpg

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1. Site/Range: Fort Ord; Ranges 1-49; Training Areas; Real Estate Acreage.  
2. Source: U.S. Army Corps of Engineers  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Training Facilities Plan  
5/2/88  
5. Author: Beach-Philpot Associates  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: HR\_lit00030.jpg

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1. Site/Range: Fort Ord, City Lands of Monterey  
2. Source: U.S. Army  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Range Complex, Fort Ord (Construction Priority Map).  
7/3/56  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: HR\_0003.jpg

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1. Site/Range: Fort Ord and Vicinity; Impact Area; Seaside; Marina  
2. Source: U.S. Army  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Field Training Areas & Range Map; Training Areas A-T; Appendix 2, Annex O,  
Reg. 350-70; HQ USATC, INF & Fort Ord, California.  
4/64  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: HR\_lit0007.jpg

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1. Site/Range: Fort Ord  
2. Source: U.S. Army  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Fort Ord Training Areas & Facilities; Inclosure I to Annex "O"  
Revised 12/20/56  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: HR\_0001.jpg

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1. Site/Range: Fort Ord  
2. Source: Office of The Division Engineer, South Pacific Division  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Real Estate; Fritzsche Army Airfield Middle Maker Annex; Fritzsche Army  
Airfield Outer Annex  
3/18/88  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Fort Ord  
2. Source: U.S. Army  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Map of Fort Ord Training Areas & Facilities; Enclosure 1 to Annex H  
7/15/57  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: HR\_lit00036.jpg

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1. Site/Range: Fort Ord  
2. Source: U.S. Army Corps of Engineers  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Reservation Plan, Fort Ord  
6/1/77  
5. Author: Robert G. Muir & Associates  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Fort Ord  
2. Source: U.S. Army, Fire Department Scrapbook  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Firebreak Map, Fort Ord Fire Department  
5/11/58  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Monterey  
2. Source: Monterey County  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Assessor's Plat; Monterey City Lands Tract No. 1, Map No. 2.  
1922  
5. Author: H.F. Cozzens  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: HR\_00031.jpg

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1. Site/Range: Fort Ord; Ranges 1-18; Mortar Ranges, Training Areas  
2. Source: U.S. Army  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Map of Fort Ord Training Areas & Facilities; Incl. 1 to App. 1 to Annex H  
1/10/58  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: HR\_00032.jpg

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1. Site/Range: Fort Ord; Ranges 1-48, C, G, F, H, I, J, K, L, M, N, O, P, R  
2. Source: U.S. Army  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Fort Ord Range and Training Area Plan; Mobilization Development Plans.  
6/30/89  
5. Author: Nakata Planning Group, Inc.  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Fort Ord  
2. Source: Master Plan Fort Ord  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Reservation Boundary & Land Use Map, Sheet 2 of 21  
4/5/46  
5. Author: U.S. Engineer Office  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: HR\_lit00035.jpg

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1. Site/Range: All active ranges and training areas  
2. Source: Basic Information, Training Facilities  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Training facilities map, revised  
6/30/61  
5. Author: U.S. Army Corps of Engineers  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: HR\_Lit00016.jpg

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1. Site/Range: Fort Ord; Ranges 1-49, A-R  
2. Source: U.S. Army Corps of Engineers  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Training Facilities Plan, Future Development  
1977  
5. Author: Robert G. Muir & Associates  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: HR\_lit00017.jpg

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1. Site/Range: Fort Ord; Ranges 18, 19, 44, 45, 46, 48  
2. Source: U.S. Army Corps of Engineers  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Site Plan, Future Development Plans  
5/89  
5. Author: Nakata Planning Group Inc.  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: HR\_Lit00018.jpg

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1. Site/Range: Fort Ord  
2. Source: Monterey County  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Proposed Annexation of Fort Ord Military Reservation, Exhibit B  
11/83  
5. Author: Bestor Engineers Inc.  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Fort Ord  
2. Source: U.S. Army Corps of Engineers  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Aerial Mapping – GPS Control Network, Topographic Maps  
9/8/94  
5. Author: Bestor Engineers Inc.  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: HR\_Lit00020.jpg

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1. Site/Range: Fort Ord  
2. Source: U.S. Army Corps of Engineers  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Topographic Map, Camp Ord and Vicinity  
1930's  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Fort Ord  
2. Source: U.S. Army  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Master Plan Fort Ord, Reservation Boundary and Land Use Map (Enlargement of northern portion)  
4/5/46  
5. Author: U.S. Engineer Office  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Fort Ord; Ranges 1-50; Indoor Range, Building 2088; East Garrison Ranges 1-3, Ranges A-T  
2. Source: U.S. Army  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Back Country Roads, Field Training Area and Range Map; App. 2, Annex O  
1/67  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: HR\_Lit00023.jpg

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1. Site/Range: Inland Ranges  
2. Source: U.S. Army Engineer District  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Topography (Inland Ranges); Sheets 1-4  
1969  
5. Author: Cartwright Aerial Surveys, Inc.  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: HR\_Lit00024-00027.jpg

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1. Site/Range: Fort Ord; Beach Ranges 1-17; Inland Ranges 18-48  
2. Source: U.S. Army  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Ranges and Training Area Overlay, Fort Ord and Vicinity  
11/15/87  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: HR\_Lit00028.jpg

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1. Site/Range: Fort Ord; Ranges 1-49; Indoor Ranges 1-3 Building 2088  
2. Source: U.S. Army Corps of Engineers  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Master Plan Fort Ord; Training Facilities Plan, Future Development Plan  
12/76  
5. Author: Robert G. Muir & Associates  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: HR\_Lit0029.jpg

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1. Site/Range: Fort Ord; Ranges A-R, U, 1-49; Indoor Ranges 1-3, Area E  
2. Source: U.S. Army Corps of Engineers  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Training Facilities Map, Basic Information Maps  
6/84  
5. Author: Beach-Philpot Associates  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: HR\_Lit00030.jpg

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1. Site/Range: Various  
2. Source: U.S. Army Corps of Engineers  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Notes on June 84 Training Map  
5. Author: U.S. Army Corps of Engineers  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: HR\_Lit00031.jpg

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1. Site/Range: Fort Ord  
2. Source: U.S. Army  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Additional Firing Points  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Fort Ord  
2. Source: U.S. Army  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Topography with Training Facility Notes  
1976  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Fort Ord  
2. Source: U.S. Army  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Firing Positions 1-3  
105mm Howitzer HE  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: West of Salinas River  
2. Source: David Jacks Corporation  
3. Physical Location of Info: Monterey Project Office  
4. Subject: David Jacks Corporations; Land West of the Salinas River showing the General  
Topography of the proposed Acreage Subdivisions.  
June 1914  
5. Author: H.F. Cozzens  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Firing points 1, 2 and 3  
2. Source: Fort Ord Military Installation Map, Series V795S, Edition 1-DMA  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Original Firing Fans for FP 1, 2, 3; changed 2/84 to consolidate HE impact area  
Hand revisions dated 12/84  
5. Author: U.S. Geological Survey for publication by the Defense Mapping Agency  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: HR\_Lit00032.jpg

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1. Site/Range: East Garrison  
2. Source: Office of Constructing Quartermaster  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Layout of Buildings and Roads  
11/28/42  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: East Garrison  
2. Source: U.S. Engineer Office  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Master Plan Fort Ord; East Garrison Cantonment 1  
4/5/46  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Fort Ord  
2. Source: U.S. Army Corps of Engineers  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Fort Ord Military Reservation  
Main Garrison, Camp Huffman, Camp Pacific, East Garrison, 1:20,000. 1944  
5. Author: Army Map Service  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Camp Ord and Vicinity, Terrain Map  
2. Source: U.S. Army Corps of Engineers  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Topographic Map, Camp Ord and Vicinity, 1/20,000  
1933-34  
5. Author: U.S. Army Corps of Engineers, War Department  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Gridzone "G"  
2. Source: U.S. Army Corps of Engineers  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Topographic Map, Salinas Quadrangle, Tactical Map  
1940  
5. Author: Engineer Reproduction Plant  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Coastline  
2. Source: U.S. Geological Survey  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Topographic Map, Monterey and Salinas Quadrangles  
1913  
5. Author: C.F. Eberly and Cornelius Schnurr  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Inland  
2. Source: U.S. Geological Survey  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Topographic Map, Monterey and Salinas Quadrangles  
1912  
5. Author: W.H. Griffin, J.P. Harrison, T.H. Moncure, W. Bleurs, E.R. Bartlett,  
M.A. Knock  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Main Garrison  
2. Source: U.S. Engineer Office  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Main Garrison Cantonment Land Use Map  
3/20/46  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Main Garrison  
2. Source: U.S. Engineer Office  
3. Physical Location of Info: Monterey Project Office  
4. Subject: General Site Plan and Building Use Map  
3/20/46  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Main Garrison  
2. Source: U.S. Engineer Office, San Francisco, Calif.  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Main Garrison General Road Map  
4/5/46  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Main Garrison  
2. Source: U.S. Engineer Office, San Francisco, Calif.  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Main Garrison General Organized Recreational Area  
4/5/46  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Ord Village  
2. Source: U.S. Engineer Office, San Francisco, Calif.  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Ord Village General Road Map  
4/5/46  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Main Garrison  
2. Source: Fort Ord: Map, Locator  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Fort Ord Main Garrison, 228-10  
1940  
5. Author:  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Main Garrison  
2. Source: Post Engineer Office  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Fire-Hydrants & Fire-Telephones  
7/3/44  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: East Garrison  
2. Source: Office of Constructing Quartermaster  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Topographic & Temporary Housing Layout, Fort Ord and Vicinity  
11/28/41  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Training Areas a-t  
2. Source: U.S. Army  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Field Training Areas and Range Map, Fort Ord; App. 2, Annex O  
4/27/64  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: HR\_lit0007.jpg

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1. Site/Range: Training Areas A-T, 4<sup>th</sup> Brigade Training Facilities, Ranges 1-50, East Garrison 1-3  
2. Source: Directorate of Engineering and Housing  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Back Country Roads, Field Training Area and Range Map  
1/67  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Real Estate Acreage, Ranges 1-49, East Garrison 1-3, Indoor Building 2088  
2. Source: U.S. Army Corps of Engineers  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Training Facilities Map, Basic Information Maps  
6/84  
5. Author: Beach-Philpot Associates  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Ranges 1-4, Indoor Building 2088, East Garrison 1-3  
2. Source: U.S. Army Corps of Engineers  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Training Facilities Plan, Future Development  
12/76  
5. Author: Robert G. Muir & Associates  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Real Estate Acreage, Firing Ranges, Impact Area  
2. Source: U.S. Army Corps of Engineers  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Reservation Map, Basic Information Maps  
3/75  
5. Author: Muir & Associates  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Ranges 1-49, Indoor Building 2088, East Garrison 1-3, Training Areas A-T, 4<sup>th</sup> Brigade Training Areas A-K  
2. Source: U.S. Army Corps of Engineers  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Training Facilities Plan, Future Development Plans  
11/1/71  
5. Author: Beach Associates  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Ranges 1-50, E. Garrison 1-3, Training Areas A-T, 4<sup>th</sup> Brigade Areas A-K  
2. Source: U.S. Army Corps of Engineers  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Training Facilities Map, Basic Information Maps  
3/13/68  
5. Author: Beach Associates  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: HR\_lit00037.jpg

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1. Site/Range: Ranges 18-36, 43, 46  
2. Source: U.S. Army Corps of Engineers  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Aerial Mosaic, Location of Ranges; Maps 1-15  
5/24/65  
5. Author: R.M. Towill Inc.  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Fort Ord  
2. Source: Office of The Division Engineer, South Pacific Division  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Real Estate; Fritzsche Army Airfield Middle Marker Annex; Fritzsche Army Airfield Outer Marker Annex  
3/18/88  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Main Garrison  
2. Source: U.S. Army Corps of Engineers  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Main Garrison Layout  
9/56  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Camp Ord  
2. Source: POM  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Camp Ord, Ultimate Layout of Concurrent Training Camps  
6/20/40  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: Fort Ord  
2. Source: USACE  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Aerial photographs (1" to 400') of Fort Ord  
Taken 6/23/51 and 7/3/51  
5. Author: Fairchild Aerial Surveys, Inc.  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: All Sites  
2. Source: Revised Archives Search Report  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Identification and rationale for all known and suspected OE sites.  
12/1/97  
5. Author: USACE St. Louis District  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0022

---

1. Site/Range: Site 39 – Inland Ranges  
2. Source: Draft Final Data Summary and Work Plan, Site 39 Inland Ranges  
3. Physical Location of Info: Fort Ord, Administrative Record  
4. Subject: Results of research efforts at Site 39 Inland Ranges. Provides recommendations and investigative approaches for future work at the site.  
5/17/94  
5. Author: HLA  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0049

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1. Site/Range: Fort Ord and offshore restricted zone  
2. Source: Draft Final Enhanced Preliminary Assessment of Monterey Bay  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Preliminary assessment of army activities at and around Fort Ord which may have impacted the restricted zone in Monterey Bay.  
5. Author: HLA  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

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1. Site/Range: All Sites  
2. Source: Archives Search Report  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Identification and rationale for all known and suspected OE sites.  
10/93  
5. Author: USACE, St. Louis District  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

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1. Site/Range: Fort Ord, Western MRA, Seaside  
2. Source: Aerial Photo Map, War Department, Corps of Engineers, Sheet 74-27  
3. Physical Location of Info: U.C. Berkeley, Earth Sciences Library, McCone Hall  
4. Subject: Aerial Photo Map, 1942. 1-20,000. From 1937, 1939, 1941, and 1942 Photos.  
Sheet 74-27.  
5. Author: 29<sup>th</sup> Engineer Reproduction Plant, Portland, OR 1942.  
6. Contact: Earth Sciences Library  
Name: Reference Desk  
Address: McCone Hall, U.C. Berkeley  
City & State: Berkeley, CA  
Phone: 510 642 2997  
7. Image File: NA

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1. Site/Range: Fort Ord, Military Reservation, MRA & East  
2. Source: Aerial Photo Map 1943, Revised 1945  
3. Physical Location of Info: U.C. Berkeley, Earth Sciences Library, McCone Hall  
4. Subject: Aerial Photo Map, 1943, Revised 1945. Scale 1-25,000. From 1941 Aerial Photography by Fairchild Aerial Surveys, Inc., Long Island City, NY July – August 1941.  
  
5. Author: U.S. Army Corps of Engineers, War Department.  
6. Contact: Earth Sciences Library  
Name: Reference Desk  
Address: McCone Hall, U.C. Berkeley  
City & State: Berkeley, CA  
Phone: 510 642 2997  
7. Image File: NA

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1. Site/Range: All Sites  
2. Source: Archives Search Report  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Identification and rationale for all known and suspected OE sites. 12/93  
5. Author: USACE, St. Louis District  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0005

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1. Site/Range: All Sites  
2. Source: Archives Search Report (Supplement No. 1)  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Identification and rationale for all known and suspected OE sites. 11/1/94  
5. Author: USACE, St. Louis District  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0010

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1. Site/Range: Site 39A  
2. Source: Draft Final Site Characterization Site 39A - East Garrison Ranges  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Investigation Summary of Site 39A 5/16/97  
5. Author: HLA  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: BW-1735

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1. Site/Range: Marina, California  
2. Source: Geological Survey  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Marina Quadrangle  
9/26/87  
5. Author: Unknown  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: NA  
2. Source: Ordnance and Explosives Cost-Effectiveness Risk Tool, Final Report, Version E  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Ordnance and Explosives Cost-Effectiveness Risk Tool, Final Report, Version E  
8/31/95  
5. Author: Quantitech  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

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1. Site/Range: NA  
2. Source: OEW Sampling and removal Action Work Plan  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Former Fort Ord Basewide Ordnance and Explosives (OE) Sampling and  
Removal Action  
2/14/97  
5. Author:  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

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1. Site/Range: NA  
2. Source: Sacramento District Office  
3. Physical Location of Info: 13<sup>th</sup> Floor; File-Storage  
4. Subject: CEHND Approved OEW Sampling and Removal Action Work Plan  
8/22/95  
5. Author: CMS  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

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1. Site/Range: NA  
2. Source: Explosive Ordnance Disposal Division, Ordnance and Explosive Waste Site Operations, Fort Ord – Phase in Work Plan and Site Specific Safety and Health Plan.  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Work plan and Site Specific Safety and Healthplan  
2/22/94  
5. Author: Human Factors Applications, Inc.  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

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1. Site/Range: NA  
2. Source: Ordnance and Explosive Waste Site Operations; Fort Ord – Phase 1 Work Plan Accident Prevention Plan  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Work Plan/Accident Prevention Plan  
12/16/93  
5. Author: Human Factors Applications, Inc.  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

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1. Site/Range: Phase 1 Sites  
2. Source: Final Engineering Evaluation / Cost Analysis (EE/CA) Phase 1  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: EE/CA for Phase 1 Sites  
9/18/97  
5. Author: EARTH TECH  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0029

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1. Site/Range: NA  
2. Source: Final Work Task Proposal EE/CA, Phase 1  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Final Work Task Proposal, EE/CA – Phase 1  
6/1/96  
5. Author: EARTH TECH  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

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1. Site/Range: Phase 2 Sites  
2. Source: Final Engineering Evaluation/Cost Analysis (EE/CA) Phase 2  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: EE/CA for Phase 2 Sites  
4/2/98  
5. Author: EARTH TECH  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-144

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1. Site/Range: OE-BC  
2. Source: Sacramento District Office  
3. Physical Location of Info: 12<sup>th</sup> Floor  
4. Subject: Base Realignment and Closure Ordnance and Explosive Waste Archives Search  
Report  
12/93  
5. Author: U.S. Army Corps of Engineers  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

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1. Site/Range: OE Site 3  
2. Source: Draft After Action Report, OE-Site - 3  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Draft After Action Report Inland Range Contract, OE – Site 3  
3/25/99  
5. Author: USA Environmental, Inc.  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

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1. Site/Range: NA  
2. Source: Sacramento District Office  
3. Physical Location of Info: 13<sup>th</sup> Floor; File-Storage  
4. Subject: Program Ordnance and Explosive Plan, Volume 1  
8/97  
5. Author: IT Corporation  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

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1. Site/Range: OE Site 12  
2. Source: Final Report for Ordnance and Explosive Removal Action  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Removal action at OE Site 12  
11/1/95  
5. Author: UXB  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

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1. Site/Range: OE Site 14  
2. Source: Final Report for Ordnance and Explosive Removal Action for OE Site 14  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Removal Action for OE Site 14  
11/1/95  
5. Author: UXB  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

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1. Site/Range: HFA/CON  
2. Source: Sacramento District Office  
3. Physical Location of Info: 13<sup>th</sup> Floor; File-Storage  
4. Subject: Final Report for Ordnance and Explosive Removal Action  
11/1/95  
5. Author: UXB  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: OE Site 47 (Wolf Hill)  
2. Source: Explosive Safety Submission Ordnance Removal Prior to Land Disposal, 120-Acre Wolf Hill Parcel  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Explosive Safety Submission for the Wolf Hill parcel  
7/26/94  
5. Author: U.S. Army Corps of Engineers  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0031

---

1. Site/Range: NA  
2. Source: Sacramento District Office  
3. Physical Location of Info: 13<sup>th</sup> Floor; File-Storage  
4. Subject: Final Report for Ordnance and Explosive Removal Action, Primary Report  
7/94  
5. Author: UXB  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

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1. Site/Range: NA  
2. Source: Site/Grid Statistical Sampling Based Methodology, Final Report  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Site/GRID Statistical Sampling Based Methodology, Final Report  
9/30/95  
5. Author: Quantitech  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

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1. Site/Range: NA  
2. Source: Final Work Task Proposal, EE/CA – Phase 1  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Final Work Task Proposal, EE/CA – Phase 1  
6/96  
5. Author: EARTH TECH  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: NA  
2. Source: Sacramento District Office  
3. Physical Location of Info: 12<sup>th</sup> Floor  
4. Subject: Ordnance and Explosive Program Management  
12/97  
5. Author: IT Corporation  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

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1. Site/Range: NA  
2. Source: Sacramento District Office  
3. Physical Location of Info: 12<sup>th</sup> Floor  
4. Subject: Site Specific Work Plan for Clearance of OE Fort Ord Remedial Action  
2/97  
5. Author: IT Corporation  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range:  
2. Source: Sacramento District Office  
3. Physical Location of Info: 13<sup>th</sup> Floor; File-Storage  
4. Subject: Site-Specific Sampling Report  
7/31/96  
5. Author: CMS  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

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1. Site/Range: NA  
2. Source: Sacramento District Office  
3. Physical Location of Info: 13<sup>th</sup> Floor; File-Storage  
4. Subject: After Action Report  
11/1/96  
5. Author: CMS  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

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1. Site/Range: 39  
2. Source: Sacramento District Office  
3. Physical Location of Info: 12<sup>th</sup> Floor  
4. Subject: Basewide Remedial Investigation / Feasibility Study, Volume V  
11/25/94  
5. Author: HLA  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

---

1. Site/Range: 39  
2. Source: Sacramento District Office  
3. Physical Location of Info: 13<sup>th</sup> Floor  
4. Subject: Basewide Remedial Investigation / Feasibility Study, Volume II  
11/23/94  
5. Author: HLA  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

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1. Site/Range: 39  
2. Source: Sacramento District Office  
3. Physical Location of Info: 13<sup>th</sup> Floor  
4. Subject: Basewide Remedial Investigation / Feasibility Study, Volume II  
11/29/94  
5. Author: HLA  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

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1. Site/Range: OE-BC  
2. Source: Sacramento District Office  
3. Physical Location of Info: 12<sup>th</sup> Floor  
4. Subject: OE-Removal Action After Action Report, Inland Range Report  
2/15/99  
5. Author: USA Environmental, Inc.  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

---

1. Site/Range: NA  
2. Source: Sacramento District Office  
3. Physical Location of Info: 12<sup>th</sup> Floor  
4. Subject: Management Plan for OEW, MCX and Design Center  
8/10/92  
5. Author: U.S. Army Corps of Engineers  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

---

1. Site/Range: NA  
2. Source: Sacramento District Office  
3. Physical Location of Info: 13<sup>th</sup> Floor; File-Storage  
4. Subject: Program Ordnance and Explosive Plan, Volume 1  
8/97  
5. Author: IT Corporation  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

---

1. Site/Range: NA  
2. Source: Sacramento District Office  
3. Physical Location of Info: 13<sup>th</sup> Floor; File-Storage  
4. Subject: Site-Specific Work Plan for Clearance of Ordnance and Explosives  
2/98  
5. Author: IT Corporation  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

---

1. Site/Range: NA  
2. Source: Sacramento District Office  
3. Physical Location of Info: 13<sup>th</sup> Floor; File-Storage  
4. Subject: Program Ordnance and Explosive Plan, Volume 2  
8/97  
5. Author: IT Corporation  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

---

1. Site/Range: NA  
2. Source: Sacramento District Office  
3. Physical Location of Info: 13<sup>th</sup> Floor; File-Storage  
4. Subject: OEW Sampling Early Release Parcels Phase 1  
12/16/93  
5. Author: Human Factors Applications, Inc.  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

---

1. Site/Range: NA  
2. Source: Sacramento District Office  
3. Physical Location of Info: 13<sup>th</sup> Floor; File-Storage  
4. Subject: Final Work Plan OEW Phase II Removal Action  
6/28/94  
5. Author: UXB  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

---

1. Site/Range: NA  
2. Source: Sacramento District Office  
3. Physical Location of Info: 13<sup>th</sup> Floor; File-Storage  
4. Subject: Final Work Plan for OEW Phase II Removal Action  
6/28/94  
5. Author: UXB  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

---

1. Site/Range: NA  
2. Source: Sacramento District Office  
3. Physical Location of Info: 13<sup>th</sup> Floor; File-Storage  
4. Subject: Project Management Plan for Ordnance and Explosives  
4/97  
5. Author: U.S. Army Corps of Engineers  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

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1. Site/Range: OE Site 29  
2. Source: Draft After Action Report, OE – Site 29  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: After Action report for OE – Site 29  
4/28/99  
5. Author: USA Environmental, Inc.  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

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1. Site/Range: NA  
2. Source: Fort Ord Comparative Ordnance and Explosive Risk Final Report  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Explosive risk analysis  
10/24/97  
5. Author: Quantitech  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0145

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1. Site/Range: NA  
2. Source: Final Community Relations Plan Ordnance and Explosives Program  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Community relations plan  
3/1/98  
5. Author: DA  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0023

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1. Site/Range: OE Site 22 (Beach Ranges)  
2. Source: Draft Sampling/Characterization After Action Report, Inland Range Contract  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: 1/7/99  
5. Author: USA Environmental  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0215

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1. Site/Range: OE Site 47  
2. Source: Draft After Action Report, Inland Range Contract, Wolf Hill, Volume 2  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: 12/1/98  
5. Author: USA Environmental  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0214

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1. Site/Range: OE Site 47  
2. Source: Draft After Action Report, Inland Range Contract, Wolf Hill, Volume 1  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: 12/1/98  
  
5. Author: USA Environmental  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0213

---

1. Site/Range: OE Site 4B  
2. Source: Draft Sampling and Removal After Action Report, Inland Range Contract  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Sampling and removal results for OE Site 4B  
1/28/99  
  
5. Author: USA Environmental  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0220

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1. Site/Range: OE Site 3  
2. Source: Draft OE Removal After Action Report, Inland Range Contract  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Ordnance removal results for OE Site 3  
3/25/99  
  
5. Author: USA Environmental  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0224

---

1. Site/Range: OE Site 29  
2. Source: Draft OE Removal After Action Report, Inland Range Contract  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Ordnance removal results for OE Site 29  
4/20/99  
  
5. Author: USA Environmental  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0226

---

1. Site/Range: OE Site 13C  
2. Source: Draft OE Removal After Action Report, Inland Range Contract  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Ordnance removal results for OE Site 13C  
4/14/99  
5. Author: USA Environmental  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0227

---

1. Site/Range: NA  
2. Source: Draft Final Literature Review Work Plan, Former Fort Ord, California  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Work plan for OE literature search  
7/19/99  
5. Author: HLA  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0232B

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1. Site/Range: OE Site 32C  
2. Source: Ordnance and Explosives (OE) Sampling/Removal After Action Report, Oil  
Well Road III, Former Fort Ord, California  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Sampling and removal results for OE Site 32C  
3/14/97  
5. Author: HFA, Explosive Ordnance  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

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1. Site/Range: NA  
2. Source: Ordnance and Explosive Waste (OEW) Site Operations Fort Ord Addendum  
Phase II – Work Plan  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Work plan  
1/31/94  
5. Author: HFA, Explosive Ordnance  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0015

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1. Site/Range: NA  
2. Source: Ordnance and Explosive Waste (OEW) Site Operations Fort Ord – Phase 1  
Work Plan and Accident Prevention Plan  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Work plan  
12/16/93  
5. Author: HFA, Explosive Ordnance  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0019

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1. Site/Range: NA  
2. Source: Former Fort Ord Amphibious Staging and Training Areas  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Discussion on amphibious training areas  
2/28/97  
5. Author: Department of the Army  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0173

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1. Site/Range: OE Site 30, Laguna Seca Turn 11  
2. Source: Government Acceptance of Laguna Seca Turn 11 Area Ordnance Removal at  
Former Fort Ord  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: 9/13/95  
5. Author: USACE  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0003

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1. Site/Range: OE Site 47 (Wolf Hill)  
2. Source: Final Report for Ordnance and Explosive Removal Action, Fort Ord, California  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Removal results for OE Site 47  
11/1/95  
5. Author: UXB International, Inc.  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0125

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1. Site/Range: OE Site 27Y (Training Site 25)  
2. Source: Final Report for Ordnance and Explosive Removal Action, Fort Ord, California, Training Site 25 (TS25)  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Removal results for OE Site 27Y  
11/1/95  
5. Author: UXB International, Inc.  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0124

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1. Site/Range: OE Site 27X (Training Site 24)  
2. Source: Final Report for Ordnance and Explosive Removal Action, Fort Ord, California, Training Site 24 (TS24)  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Removal results for OE Site 27X  
11/1/95  
5. Author: UXB International, Inc.  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0123

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1. Site/Range: OE Site 31 (CSU Footprint)  
2. Source: Final Report for Ordnance and Explosive Removal Action, Fort Ord, California, Site HFA/CSU  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Removal results for OE Site 31  
11/1/95  
5. Author: UXB International, Inc.  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0122

---

1. Site/Range: OE Site 31 (CSU Footprint)  
2. Source: Final Report for Ordnance and Explosive Removal Action, Fort Ord, California, Site CSU  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Removal results for OE Site 31  
11/1/95  
5. Author: UXB International, Inc.  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0121

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1. Site/Range: OE Site 21  
2. Source: Final Report for Ordnance and Explosive Removal Action, Fort Ord, California, Site 21  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Removal action at OE Site 21  
11/1/95  
5. Author: UXB International, Inc.  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0120

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1. Site/Range: OE Site 19  
2. Source: Final Report for Ordnance and Explosive Removal Action, Fort Ord, California, Site 19  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Removal action at OE Site 19  
11/1/95  
5. Author: UXB International, Inc.  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0119

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1. Site/Range: OE Site 17  
2. Source: Final Report for Ordnance and Explosive Removal Action, Fort Ord, California, Site 17  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Removal results for OE Site 17  
11/1/95  
5. Author: UXB International, Inc.  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0118

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1. Site/Range: OE Site 14C (14SE)  
2. Source: Final Report for Ordnance and Explosive Removal Action, Fort Ord, California, Site 14SE  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Removal action at OE Site 14C  
11/1/95  
5. Author: UXB International, Inc.  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0117

---

1. Site/Range: OE Site 14  
2. Source: Final Report for Ordnance and Explosive Removal Action, Fort Ord, California, Site 14  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Removal action at OE Site 14  
11/1/95  
5. Author: UXB International, Inc.  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0116

---

1. Site/Range: OE Site 12  
2. Source: Final Report for Ordnance and Explosive Removal Action, Fort Ord, California, Site 12  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Removal action at OE Site 12  
11/1/95  
5. Author: UXB International, Inc.  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0115

---

1. Site/Range: OE Site 10  
2. Source: Final Report for Ordnance and Explosive Removal Action, Fort Ord, California, Site 10  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Removal action at OE Site 10  
11/1/95  
5. Author: UXB International, Inc.  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0114

---

1. Site/Range: NA  
2. Source: Final Report for Ordnance and Explosive Removal Action, Fort Ord, California, Primary Report  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Removal action results  
11/1/95  
5. Author: UXB International, Inc.  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0113

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1. Site/Range: OE Site 32B (Oil Well Road II)  
2. Source: Final Report for Ordnance and Explosive Removal Action, Fort Ord, California, Oil Well Road II (OWR2)  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Removal action at OE Site 32B  
11/1/95  
5. Author: UXB International, Inc.  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0112

---

1. Site/Range: OE Site 32A (Oil Well Road I)  
2. Source: Final Report for Ordnance and Explosive Removal Action, Fort Ord, California, Oil Well Road I (OWR1)  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Removal action at OE Site 32A  
11/1/95  
5. Author: UXB International, Inc.  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0111

---

1. Site/Range: OE Site 33  
2. Source: Final Report for Ordnance and Explosive Removal Action, Fort Ord, California, OE Cache  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Removal action at OE Site 33  
11/1/95  
5. Author: UXB International, Inc.  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0110

---

1. Site/Range: OE Site 14A (Lookout Ridge 2)  
2. Source: Final Report for Ordnance and Explosive Removal Action, Fort Ord, California, Lookout Ridge II (LOR2)  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Removal results for OE Site 14A  
11/1/95  
5. Author: UXB International, Inc.  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0109

---

1. Site/Range: OE Site 30 (Laguna Seca Turn 11)  
2. Source: Final Report for Ordnance and Explosive Removal Action, Fort Ord, California, Laguna Seca Bus Turn 11 Expansion (LST11)  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Removal results for OE Site 30  
11/1/95  
5. Author: UXB International, Inc.  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0108

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1. Site/Range: OE Site 29 Laguna Seca Bus Turn-around  
2. Source: Final Report for Ordnance and Explosive Removal Action, Fort Ord, California, Laguna Seca Bus Turn (LBST)  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Removal action at OE Site 29  
11/1/95  
5. Author: UXB International, Inc.  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0107

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1. Site/Range: OE Site 34 (FAAF)  
2. Source: Final Report for Ordnance and Explosive Removal Action, Fort Ord, California, Fritzsche Army Airfield (FAAF)  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Removal results for OE Site 34  
11/1/95  
5. Author: UXB International, Inc.  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0106

---

1. Site/Range: OE Site 35 (Fort Ord Range Control)  
2. Source: Final Report for Ordnance and Explosive Removal Action, Fort Ord, California, Former Range Control (FRC)  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Removal results for OE Site 35  
11/1/95  
5. Author: UXB International, Inc.  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0105

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1. Site/Range: OE Sites 5, 11, 13B, 24A-E, 27P, 27Q, 27R, 27T, 27U, 27V, 32C and 62  
2. Source: Final Report for Ordnance and Explosive Removal Action, Fort Ord, California, Combined non-intrusive Areas  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Removal results for the combined non-intrusive areas  
11/1/95  
5. Author: UXB International, Inc.  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0104

---

1. Site/Range: Inland Training Ranges  
2. Source: Explosive Safety Submission, Ordnance Removal Prior to Land Disposal  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: 11/1/95  
5. Author: USACE  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0126

---

1. Site/Range: OE Site 47 (5.9 Acres within the Wolf Hill Parcel)  
2. Source: Explosive Safety Submission, Ordnance Removal Prior to Land Disposal  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: 5/19/95  
5. Author: USACE  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0004

---

1. Site/Range: OE Site 14E (14 East)  
2. Source: After Action Sampling/Removal Report, Ordnance and Explosives, Site 14 East  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Sampling and removal results for OE Site 14E  
2/12/97  
5. Author: CMS Environmental, Inc.  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0129

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1. Site/Range: OE Site 47 (Wolf Hill)  
2. Source: After Action Sampling Report, Wolf Hill Site  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Sampling results for OE Site 47  
1/23/97  
5. Author: CMS Environmental, Inc.  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

---

1. Site/Range: OE Site 10A (Leary Hill Region)  
2. Source: After Action Sampling Report, Site 10 West  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Sampling results for OE Site 10A  
1/30/97  
5. Author: CMS Environmental, Inc.  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

---

1. Site/Range: OE Site 19  
2. Source: After Action Report, Site 19  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Sampling results for OE Site 19  
12/2/96  
5. Author: CMS Environmental, Inc.  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: NA

---

1. Site/Range: OE Site 47 (Wolf Hill)  
2. Source: Land Disposal Site Plan, Wolf Hill Parcel  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject:  
5. Author: HLA  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0047

---

1. Site/Range: Site 39 (Inland Ranges)  
2. Source: Explosive Safety Submission Ordnance Removal Prior to Land Disposal Inland Ranges  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Inland Ranges  
11/17/94  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: OE-0141

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1. Site/Range: Site 39A – East Garrison Ranges  
2. Source: Draft Final Site Characterization Site 39A – East Garrison Ranges  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Site Characterization of the East Garrison small arms ranges  
5/16/97  
5. Author: HLA  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: BW-1735

---

1. Site/Range: NA  
2. Source: Final Enhanced Preliminary Assessment of Monterey Bay  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Preliminary Assessment of impacts to Monterey Bay from activities on Fort Ord  
1/12/99  
5. Author:  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: BW-2026

---

1. Site/Range: NA  
2. Source: Community Environmental Response Facilitation Act (CERFA) Report  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Basewide investigation and summary of all environmental issues  
4/8/94  
5. Author: Arthur D. Little  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: BW-1658

---

1. Site/Range: OE Sites 2, 5, 6, 17, 20, 22, 17X, 27Y, 32A, 32B, 33 and 34  
2. Source: Draft Action Memorandum, Phase 2 Engineering Evaluation/Cost Analysis, Ordnance and Explosives Sites  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject:  
  
5. Author: U.S. Army  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No.: BW-1944

---

1. Site/Range: Fort Ord  
2. Source: USGS  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Fort Ord Military Installation Map, Series V795S. Includes all field training areas and sites  
  
5. Author: Defense Mapping Agency  
6. Contact: Fort Ord Administrative Record  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 50047  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

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1. Site/Range: All known and suspected OE Sites  
2. Source: Revised Archives Search Report  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Shows all known and suspected OE sites located on former Fort Ord 2/6/98  
5. Author: USACE, St. Louis District  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: HR\_lit00033.jpg

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1. Site/Range: All OE Sites  
2. Source: Revised Archives Search Report  
3. Physical Location of Info: Fort Ord Administrative Record  
4. Subject: Shows all OE sites requiring further investigation or documentation 2/6/98  
5. Author: USACE, St. Louis District  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: HR\_lit00034.jpg

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1. Site/Range: Artillery Firing Points  
2. Source: Fort Ord Range/Training Area Operating Procedures  
And Usage Guide, Fort Ord Pamphlet No. 350-5.  
3. Physical Location of Info: Building 4527 - Former Fort Ord  
4. Subject: Standard operating procedures for firing points,  
6/20/91.  
5. Author: Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No: NA

---

1. Site/Range: All Ranges and Training Areas  
2. Source: On Post Ranges and Training Areas,  
Fort Ord Regulation 350-5  
3. Physical Location of Info: Building 4527 - Former Fort Ord  
4. Subject: Fort Ord range regulations. Includes listing  
of active ranges 9/9/80.  
5. Author: Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No: NA

---

1. Site/Range: Leadership Reaction Course (LRC)  
2. Source: Fort Ord Range/Training Area Operating Procedures  
And Usage Guide, Fort Ord Pamphlet No. 350-5  
3. Physical Location of Info: Building 4527 - Former Fort Ord  
4. Subject: Standard operating procedures for the LRC,  
10/7/92. Change 1 to Fort Ord Pamphlet. 350-5.  
5. Author: Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No: NA

---

1. Site/Range: All Ranges  
2. Source: USATC & Fort Ord Regulation No. 350-5,  
Annex L  
3. Physical Location of Info: Building 4527 - Former Fort Ord  
4. Subject: Range data and special instructions for all active Fort Ord ranges,  
4/27/73.  
5. Author: Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No: NA

---

1. Site/Range: All Ranges  
2. Source: Training, On-Post Ranges and Training Areas  
Fort Ord Regulation No. 350-5, Change 1 & 2  
3. Physical Location of Info: Building 4527 - Former Fort Ord  
4. Subject: Weapon & ammunition authorized to be fired at all active ranges,  
4/16/84. Changes 1 and 2 to Regulation No. 350-5 dated 4/13/82.  
5. Author: Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No: NA

---

1. Site/Range: All Ranges  
2. Source: On Post Ranges and Training Areas,  
Fort Ord Regulations 350-5  
3. Physical Location of Info: Building 4527 - Former Fort Ord  
4. Subject: Weapon & ammunition authorized to be fired at  
ranges, 4/13/82. Tab I to Fort Ord Reg. 350-5.  
5. Author: Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No: NA

---

1. Site/Range: All Ranges  
2. Source: Fort Ord Range/Training Area Operating  
Procedures And Usage Guide, Fort Ord Pamphlet No. 350-5.  
3. Physical Location of Info: Building 4527 - Former Fort Ord  
4. Subject: Weapons & ammunition authorized to be fired at ranges,  
6/20/91. Annex A to Fort Ord Pamphlet 350-5.  
5. Author: Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No: NA

---

1. Site/Range: Artillery Firing Points  
2. Source: On-Post ranges And Training Areas, Fort Ord Regulation  
350-5, Appendix J  
3. Physical Location of Info: Building 4527 - Former Fort Ord  
4. Subject: Policy and procedures for artillery firing at Fort Ord,  
4/13/82.  
5. Author: Army  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No: NA

---

1. Site/Range: Fort Ord  
2. Source: Fort Ord and Vicinity, Series: V895S, Edition 5-DMATC  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Topographic Map of Fort Ord, 1:25,000, 1972  
Stock No. V895SFTORDVIC  
5. Author: Defense Mapping Agency Topographic Center  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: HR\_lit00038.JPG

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1. Site/Range: Fort Ord  
2. Source: Fort Ord Military Installation Map, Series V795S, Edition 1-DMA  
3. Physical Location of Info: Monterey Project Office  
4. Subject: Field Training Areas, Sites and Ranges, 1:50,000, 1984  
Stock No. V795SFTORDMIM  
5. Author: U.S. Geological Survey for publication by the Defense Mapping Agency  
Hydrographic/Topographic Center  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Image File: NA

---

1. Site/Range: NA  
2. Source: Historical and Architectural Documentation Report for Fort Ord, California  
3. Physical Location of Info: Monterey County Historical Society, Salinas  
4. Subject: Investigation of NRHP Eligibility and Completion of an Historic American  
Building Survey for Fort Ord Buildings, September 1993  
5. Author: U.S. Army Construction Engineering Research Laboratory  
Tri-Services Cultural Resources Research Center Report  
6. Contact: Fort Ord Administrative Record Coordinator  
Name: Environmental and Natural Resources  
Address: ATTN: Community Relations, P.O. Box 5004  
City & State: Monterey, CA 93944-5004  
Phone: 831 393 9186  
7. Document No: NA

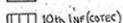
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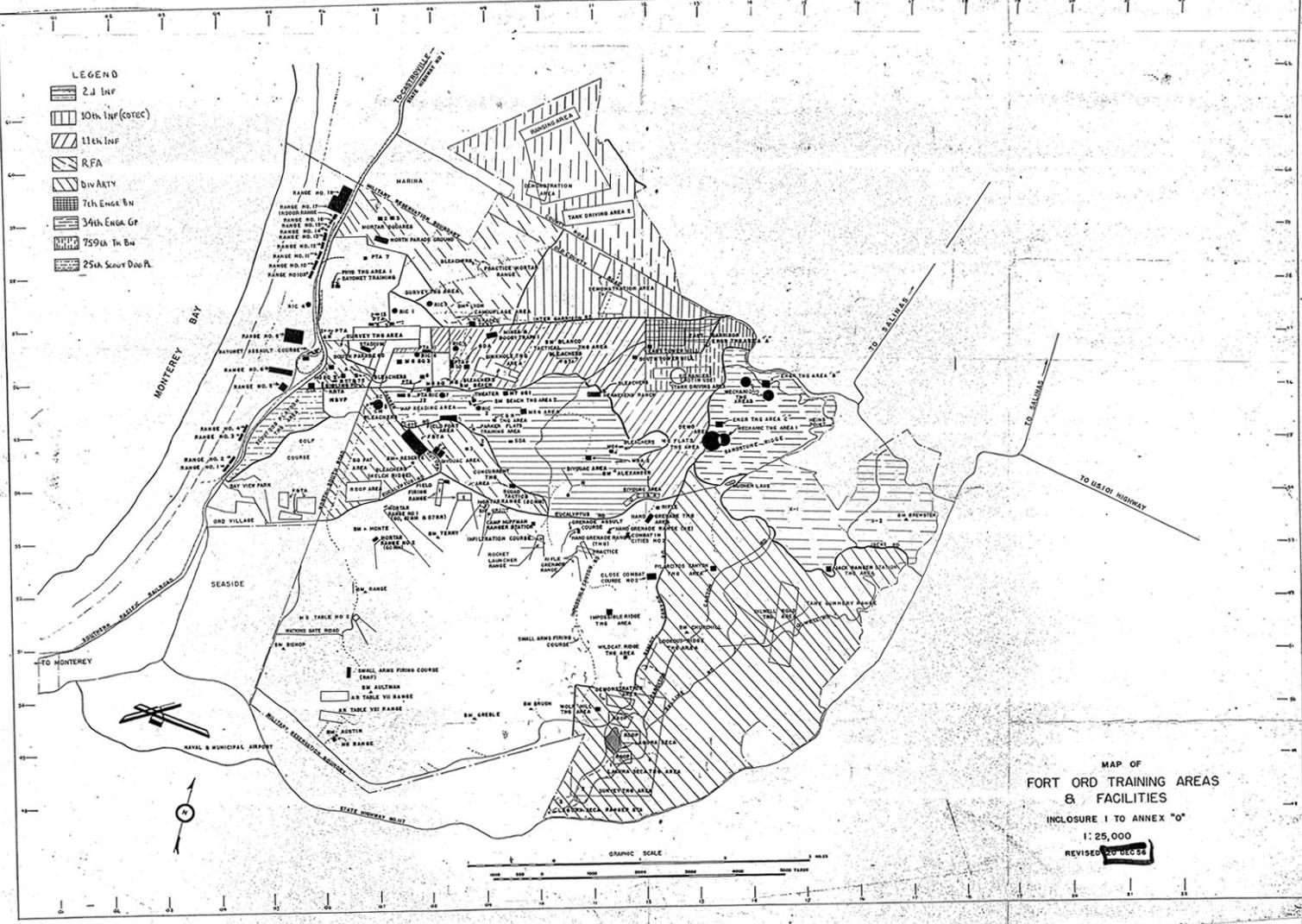
**APPENDIX C**

**REPRESENTATIVE MAPS**



LEGEND

-  2.2 Inp
-  10th Inp (cotec)
-  11th Inp
-  RFA
-  Div ARTY
-  7th ENGR BN
-  34th ENGR GP
-  759th Tr Bn
-  25th Scout Doo Pl



MAP OF  
**FORT ORD TRAINING AREAS  
 & FACILITIES**  
 INCLOSURE 1 TO ANNEX "O"  
 1:25,000  
 REVISED TO DEC 56

## TRAINING AREAS

**a** 4th SDE  
**b** " "  
**c** 13th EVAC  
**d** 4th SDE  
**e** 1st SDE  
**f** 0-3  
**g** 1st SDE  
**h** 4th SDE  
**i** 3rd SDE  
**j** 1st SDE  
**k** 0-3  
**l** 3rd SDE  
**m** 0-3 TRAINING  
**n** 1st SDE  
**o** 0-3 18th ENO1  
**p** 3rd SDE  
**q** 0-3  
**r** 0-3  
**s** 1st SDE  
**t** 0-3

## Legend

P1-D0 AREAS  
 AVM ENG AREAS  
 IMPORTANT SECONDARY & ACCESS ROADS  
 FORT ORD BOUNDARY  
 PRIMARY ROADS  
 RANGE FAN  
 TNG AREA BOUNDARY  
 BOUNDARY & RANGE TNG SITE LIMITS  
 TRAINING FACILITIES  
**4th BRIGADE TNG AREAS**  
 GEN SUPPLY COURSE FIELD AREA  
 VEHICLE OBSTACLE COURSE  
 PROFICIENCY TEST AREA  
 VEHICLE CAMOUFLAGE AREA  
 FIELD COMMAND CREWMAN COURSE  
 CIRCUIT FAULTS COURSE  
 FIELD WIRE LAYING & RECOVERY  
 FORDING AREA  
 MOBILITY AREA  
 BULLETPROOF PARKING AREA  
 AUTOMOTIVE MAINT HELPER COURSE  
 FOOD SERVICE AREA  
 LVDC LIGHT VEH DRIVERS COURSE AREA

FIELD TRAINING AREAS & BRIGADE MAP  
 APPENDIX 3, ANNEX D  
 FIG 310-70  
 HQ USMC, INF & FORT ORD CALIF

MAP 21 500 2 10000  
 SCALE  
 DATE

DRAWING FILE NO.  
 CHECKED: 1st Lt. & Major





**APPENDIX D**

**RESPONSE TO COMMENTS  
ON THE DRAFT LITERATURE REVIEW REPORT  
ORDNANCE AND EXPLOSIVES  
REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
FORMER FORT ORD, CALIFORNIA  
DATED SEPTEMBER 24, 1999**

**RESPONSE TO COMMENTS  
ON THE DRAFT LITERATURE REVIEW REPORT  
ORDNANCE AND EXPLOSIVES  
REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
FORMER FORT ORD, CALIFORNIA  
DATED SEPTEMBER 24, 1999**

**I. UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, REGION IX,  
COMMENTS DATED OCTOBER 29, 1999.**

The U.S. Environmental Protection Agency (EPA) has reviewed the above-referenced document and submits the following comments:

**Comment 1: OE Definition – The Literature Review Report (Report) (Section 5.2.1) is the first OE RI/FS document which suggests small arms (50-caliber ball ammunition or smaller) are to be excluded from the definition of OE and thus the RI/FS. The Draft OE RI/FS Work Plan (dated July 30, 1999) Glossary of Terms provides a very general definition which does not necessarily exclude small arms. Matter of fact, the Draft OE RI/FS Work Plan Section 3.2.2 (Firing Ranges) states that, “Property identified as containing firing ranges will undergo further evaluation through the OE RI/FS process (Tracks 1, 2, and 3).” At this Literature Review phase of the process, EPA Region 9 feels that all ranges should be identified (location, munition type, etc.) and included in the Report as potential OE sites, or at least an areas of concern, until the OE Definition is resolved in the Work Plan or appropriate RI/FS document.**

**Response 1:** The Army agrees that the definition of ordnance and explosives (OE) as widely used include small arms, and therefore should be included in the OE RI/FS. A plate showing small arms ranges has been added to the Draft Final Literature Review Report.

However, small arms have historically been considered to have a very low hazard potential. This determination is made by the U. S. Army Engineering and Support Center, Huntsville, in Ordnance and Explosives (OE) Center of Expertise (CX) Interim Guidance Document 99-02. It states that caliber .50 and smaller sized ordnance items are considered small arms, and present a very low risk to the public. Therefore, due to the lack of significant risk the Army does not intend to specifically investigate or respond to the presence of small arms under the OE RI/FS. Small arms ranges are currently being addressed under the Installation Restoration Program (IRP) and Basewide RI/FS for chemical contamination. If information suggests that a small arms range or a portion of a small arms range was used for other ordnance-related use, then that area is investigated under the OE RI/FS. On the other hand, if small arms items are found during OE investigation and response, they will be removed from the site and documented. A brief discussion about small arms has been added to the Draft Final Literature Review Report.

**Comment 2: Training facilities – The executive summary states that, “Because no evidence was found that would support the use of ordnance at these locations, they are considered non OE training areas.” Section 5 provides supporting information. The information for several types of training areas (i.e., machine gun squares, mortar squares) does not indicate whether information from interviews was used as supporting evidence. Interviews would help substantiate the assertion that these areas did not use live fire. Please indicate whether interviews were completed or are planned.**

Response 2: Reference sources have been added to the Draft Final text.

**Comment 3: Incident reports – Based on a review of Table 5 and Plates 12 and 14, it appears that a number of incidents (i.e., Numbers 1, 2, 7, 9, 25, 27, 31, 32) occurred outside of known or suspected OE sites or areas of concern. While Section 5.3 states that, “An evaluation of the items listed on Table 5 and their impact to the property those items were found on, will be included in the applicable associated decision document.” Plate 14 suggests that no further field evaluations for evidence of OE use surrounding the incidents identified above are planned. EPA feels it is appropriate to further evaluate these incident areas, possibly with site walks, to determine whether they represent OE training areas which require more comprehensive evaluation.**

Response 3: Incident reports will be evaluated in the respective track decision documents that the underlying land falls into. If an OE related item was found within an area identified for Track 0, that information will be addressed in the Track 0 Technical Memorandum or subsequent Approval Memoranda for the specific area.

**Comment 4: Monterey Bay – Page 19 of the Report indicates the Enhanced Preliminary Assessment of Monterey Bay (PA) was reviewed, however the Report does not mention the potential for ordnance to exist in the bay, as the PA indicates. The Report should mention this potential and delineate bay training areas and range fans on the appropriate plates.**

Response 4: An evaluation of the Former Fort Ord Restricted Zone was performed by the U.S. Geological Survey and reported in the Southern Monterey Bay Continental Shelf Investigation: Former Fort Ord Restricted Zone, Open File Report 97-450. The Fort Ord Restricted Zone as delineated in Open File Report 97-450, was added to Plate 14 of the Draft Final report. Additional evaluation of Monterey Bay is not part of the literature review.

**Comment 5: Future OE site/area identification – Despite the Army’s efforts on this Report, it is possible that following completion of the Report additional information may become available which identifies new areas of potential OE use. The Report and the RI/FS Work Plan should identify the process by which additional information will be documented, evaluated, and worked into the RI/FS tracks.**

Response 5: If new information is identified that impacts areas previously identified as non OE areas, the regulatory agencies will be notified. If warranted, land previously identified as Track 0 could be moved into another Track.

## **II. California Environmental Protection Agency, Department of Toxic Substances Control Comments Dated October 28, 1999.**

This transmits our comments on the subject document. It was received in our office September 27, 1999. The U.S. Army requested that we provide comments by October 30, 1999.

### **General Comments:**

**Comment 1: It is our position that the purpose of the document is only to compile information and not make conclusions as to a particular area may or may not be an ordnance and explosives waste (OEW) site. A related document, "Track 0 Technical Memorandum" has been planned. We understand that the purpose of this document is to present analysis and conclusions as to whether several specific parcels should be considered areas of OEW concern.**

**An effort should also be taken on a broader scale to reach conclusions about the information brought out by this literature review, and information gathered in the future. In general, there should be an ongoing effort to continue to collect information on the past use of ordnance and explosives (OE), OEW incidents and any other pertinent information that suggests the possibility of OE use. This information should then be compiled, along with analysis and proposed conclusions in a periodic report to the regulatory agencies. As a first step, the areas of concern, additional areas identified in section 5.0, and the information from the past incident reports that are presented in this literature review should be the subject of a follow up technical memorandum.**

Response 1: The purpose of the literature review is to identify areas of previous ordnance-related use based on a thorough review of historical records. The literature review identified known or suspected ordnance and explosives (OE) sites, additional areas of previous ordnance-related use, Non-OE areas, and areas of concern. Each of these areas will undergo further review to reach final conclusions about site conditions and response actions under OE RI/FS. For Track 0, a Technical Memorandum and/or Approval Memorandum will be published providing a more detailed description of the history and use of each transfer parcel, prior to a final decision on whether the area should be considered a Non-OE area. Please refer to Draft Track 0 Technical Memorandum for details about decision-making steps for Track 0 areas.

The Army will continue to collect information related to historical ordnance-related land use at Fort Ord, by maintaining the incident reporting procedures and conducting interviews if and when such persons come forward and are available for interviews. The Army's community outreach activities as outlined in the Community Relations Plan include monthly meetings, participation at local events, and newsletters, and we use these community outreach activities to seek additional information on an ongoing basis.

**Comment 2:** Prior to proposal of particular parcels as eligible for the Track 0 pathway through the OE RI/FS process, a parcel specific analysis of the potential for OEW presence should be conducted. The results of the analysis may conclude that the parcel is appropriate for Track 0, or that additional research or investigation should be considered based on parcel specific circumstances.

Response 2: Comment noted.

**Comment 3:** This literature review should provide information on the location and use of ammunition storage areas or supply points. These areas and areas nearby are potentially sites of burial of retrograde or unused ordnance.

Response 3: Three ammunition supply points (ASPs) or storage areas were located at Fort Ord. Each of the three ASPs were used for the storage and distribution of ammunition. The three ASPs are located within or are considered OE sites. The three locations are, the Powder Magazine, OE Site 41, the ASP Grenade area, OE Site 42, and an ASP located at OE Site 22 (Beach Ranges).

#### Specific Comments:

**Comment 1:** Section 2.3.4, OE Site Categories. It appears that by default, all OE sites will be sampled. That is, Category A sites are defined as those where no UXO was found during sampling. This is acceptable to the Department of Toxic Substances Control (DTSC). However, the amount and type of sampling is an area that still needs to be agreed upon.

Response 1: Section 2.3.4, OE Site Categories: The inclusion of the OE Site Categories designation from the EE/CA was provided as background only. We agree that some level of field investigation will be completed at all known and suspected OE sites and that specific methods will be identified in the various future work plans as part of the OE RI/FS.

**Comment 2:** Section 5.2.1 Training Facilities. Potential and known small arms ranges should be reported in this document and followed up as all other types of ordnance sites. This section states that small arms ranges are not considered potential OE sites and therefore not reported in the subject document. DTSC is in the process of considering the scope of the types of ordnance and explosives that we consider dangerous. At this time it is appropriate to include these types of sites in the review process to ensure that they are not lost as we progress through the OE RI/FS.

Response 2: Section 5.2.1 Training Facilities: The Army agrees that the definition of ordnance and explosives (OE) as widely used include small arms, and therefore should be included in the OE RI/FS. A plate showing small arms ranges has been added to the Draft Final Literature Review Report.

However, small arms have historically been considered to have a very low hazard potential. This determination is made by the U. S. Army Engineering and Support Center, Huntsville, in Ordnance and Explosives (OE) Center of Expertise (CX) Interim Guidance Document 99-02. It states that caliber .50 and smaller sized ordnance items are considered small arms, and present a very low risk to the public. Therefore, due to the lack of significant risk the Army does not intend to specifically investigate or respond to the presence of small arms under the OE RI/FS. Small arms ranges are

currently being addressed under the Installation Restoration Program (IRP) and Basewide RI/FS for chemical contamination. If information suggests that a small arms range or a portion of a small arms range was used for other ordnance-related use, then that area is investigated under the OE RI/FS. On the other hand, if small arms items are found during OE investigation and response, they will be removed from the site and documented. A brief discussion about small arms has been added to the Draft Final Literature Review Report.

**Comment 3:** Section 5.2.1.1, Machine Gun Squares. Section 5.2.1.2, Mortar Squares. Section 5.2.1.4, Rifle Instruction Circle (RIC) Training Areas. The explanation of the types of use of these areas needs to be supported by providing a source reference.

Response 3: Section 5.2.1.1/5.2.1.2/5.2.1.4: Reference sources have been added to the text.

**Comment 4:** Section 5.2.1.8 OE Sweep Areas. It seems that if an area is designated a sweep area, then there was some level of concern by those in charge at the time that ordnance may be present in the area. This would tend to raise concerns to the extent that the areas should be designated areas of concern and an appropriate level of investigation take place.

Response 4: Section 5.2.1.8: The concern at the time was that the youth may have dropped an OE item within at least one of the areas identified for the sweep. As stated in the report no record of a sweep in these areas was found and the former range control officer at the time did not recall a sweep being performed. Training area A is now the location of the Abrams and Preston Park housing areas. According to a representative of the US Army Corps of Engineers present during construction of the housing areas, no evidence of OE was found during their construction. A reference will be added to the Draft Final report. As stated in the literature review, Training Area I, also labeled a sweep area, includes all or portions of several previously identified OE sites. These sites include documented areas of ordnance use. Each of these sites has undergone some level of investigation including, either, site reconnaissance, sampling or a removal action. To include areas A and I as areas of suspected ordnance use based on the identified information is unwarranted.

**Comment 5:** Section 5.2.1.9 Close Combat Course. Provide some authentication that these types of areas were used exclusively in the way you describe.

Response 5: Information regarding the use of the Close Combat Course was provided by a former commanding officer of infantry basic training. A reference has been added to the Draft Final report. The Close Combat Course falls within an area identified as an area of concern in the Draft Literature Review. This location will be investigated as part of the investigation of the area of concern.

**Comment 6:** Section 5.2.1.10 It is hard to believe that all duds, short round duds, etc. would have been reported. Also, we cannot conclude that all rounds made it to the inland ranges based upon unconfirmed reports that they did. Not all information would likely have gotten reported.

Response 6: Section 5.2.1.10: The statement that “all rounds fired from the firing points landed in the target area” was made by the range control officer in charge during the period of use. The firing points were infrequently used because of air space restrictions imposed by the nearby Monterey airport, the lack of a sufficient firing point to target distance (space) and because of the noise impact on the surrounding areas. According to range control documentation the number of rounds fired from these firing points was small, with no rounds being fired during some years. Even if the former range control officer was incorrect in his statement, we have no reason to believe that short rounds or misfires would not have been dealt with as required in the Fort Ord Range/Training Area Operating Procedures And Usage Guide cited in Section 5.2.1.10 of the report.

### Appendices A and C

**Comment 1: The Dec 1, 1976 map shows AR Table Ranges VII and VIII. This, along with the range fan outlines, conflicts with information presented on January 14, 1999 OE Site 15-DRO.1 map. This should be rectified if possible. The map dated December 20, 1956 shows the AR Table Ranges VII and VIII as they are shown in the 1/14/99 map.**

Response 1: Comment noted. The literature review did not investigate the accuracy of the range fan locations within OE Site 15. There appears to have been some renaming of range fans in that area in the 1950s and early 1960s. However, comparison of various maps indicate that the range names of these areas, not their locations, have changed over time. Details regarding the various range configurations will be included in the OE RI/FS.

**Comment 2: The Archives Search Report’s Master Plan Basic Information, Training Facilities map revised as of June 30, 1961 shows a site titled BM Cruickshank (atomic). What is this site and how was it used?**

Response 2: This is the location of a survey bench mark (BM). Maps prior to and after the 1961 map identify the bench mark only as Cruickshank. The significance of the word atomic on the 1961 map is unknown.

**Comment 3: The Archives Search Report’s January 1958 Training Area Map shows a “HUMRO (or NUMRO or MUMRO) TEST AREA”, what is this and how was it used?**

Response 3: HUMRO is the acronym for Human Research Resources Organization, which is a military organization involved with physiological and psychological testing of military personnel. An interview with a former range control officer indicated that ordnance was not used at the HUMRO area. Therefore the HUMRO area will not be discussed in the Draft Final Report.

**Comment 4: The Archives Search Report’s 12/20/56 map shows a “Ranging Area” covering the future location of the Fritzsche airfield area. What is this and how was it used?**

Response 4: A discussion of the “Ranging Area” was presented in Section 5.2.1.3 of the Draft Literature Review Report. Interviews with military personnel indicated that the Ranging Area was used for either sighting gun tubes or double checking range finders. This conclusion was also arrived at by the US Army Corps of Engineers, St. Louis District, during completion the ASR investigation.

**Comment 5:** In Archives Search Report's 6/30/61 map, define as many of the acronyms/abbreviations displayed on the map as possible and provide some analysis of the level of significance of them. There are similar notations on the other maps presented.

Response 5: An acronym list will be included in the Draft Final Literature Review.

**Comment 6:** In the Archives Search Report's 12/20/56 map, is the dark circle area labeled "Demo Area". Provide any information concerning its purpose and the activities that did or may have occurred there.

Response 6: The "Demo Area" identified on the 12/20/56 Fort Ord Training Area & Facilities map is OE Site 11 (Demolition Training Area). A description and investigation history of this site was included in the ASR. OE removal is in progress at OE Site 11.

**Comment 7:** In the Archives Search Report's 1/9/53 Master Plan map a range labeled "Known Distance Ranges" extends over much of the area to the south west from just south of the East Garrison. It appears that some of the gray areas bordered by OE 59, 42, 48, 19, should be included in the area of concern. In addition, the north east corner of the present area of concern should be extended to the east to include the base of the range.

Response 7: The Known Distance Ranges were used for small arms (.50 caliber or less) training. The locations of the ranges comprising the Known Distance Ranges are presented on Plate 14 of the Draft Final Literature Review. Several of the target areas associated with the Known Distance Ranges lie within IRP Site 39A. Ranges active in the East Garrison at the time of base closure were investigated for the presence of spent ammunition (i.e., lead) as part of the characterization and remediation of IRP Site 39A. Personnel trained in ordnance recognition accompanied by an ordnance safety specialist walked the target areas. No evidence of OE larger than .50 caliber was observed. Additionally, some of the target areas associated with the Known Distance Ranges were investigated for the presence of lead as part of the Site 39 Small-Arms Investigation. Personnel trained in ordnance recognition accompanied by an ordnance safety specialist walked the target areas. No evidence of OE was found during this investigation. Additional field reconnaissance at target areas associated with the Known Distance Ranges is planned as part of the Site 39 Small-Arms Investigation. As stated in Response 2 (Section 5.2.1), the Army considers small arms a low risk to the public. The Army does not intend to identify the Known Distance Ranges or any other small arms range as areas of concern.

**Comment 8:** Archives Search Report's map dated 3/68 shows "Range 50" in the "K" Training area. The legend defines this area as an explosive ordnance disposal location. Range 49 is located in the Training Area "J" and appears to be in the same location as OE site 3 which in the text of the report is described as the ordnance demolition area. The conflict should be resolved. There does not seem to be an OE site associated with "Range 50's" location on this map. Range 50 is noted in the discussion of OE-9. However, from comparison of the maps, it seems that neither site 10A nor 10B covers this area. The closest site is OE-9.

Response 8: The location of Range 50 does appear to be outside of OE Site 10A. The former location of Range 50 (Explosive Ordnance Disposal range) is within an area identified as an area

of concern in the literature review. This location will be investigated as part of the investigation of the identified area of concern.

**Comment 9: Plate 2 shows property acquisition phases. It indicates that the reservation encompassed more property than it does now. For instance, the areas east of the Fritzsche Airfield and the Laguna Seca property. Some consideration as to the likely presence of OE and other contaminants needs to be given for these. Especially the Laguna Seca area which is bounded on three sides by Fort Ord property.**

Response 9: These areas are considered Formerly Used Defense Sites (FUDS) and were not included in the scope of this investigation. If any OE is found in these areas, it will be handled under the FUDS program.

**Comment 10: Firing points labeled as “fp-1” and “fp-2” along with associated range fans have been noted on the “Beardsley” map included in the 1997 Revised Archives Search Report. The potential for OEW and OE sites should be evaluated for these areas.**

Response 10: Firing Points FP-1 and FP-2 shown on the Beardsley Map correspond to Firing Point 1 and firing Point 2 shown on Plate 8 of the Draft Literature Review Report and discussed in Section 5.2.1.10. Firing Point 1 lies within OE Site 13C. OE Site 13 C was included in the removal action for OE Site 31. The associated range fan for Firing Point 1 lies entirely within previously identified OE Sites or land identified in the Literature Review as areas of concern. These areas are either currently under investigation, have undergone, or will undergo evaluation. Firing Point 2 is located within OE Site 27M. To date, the investigation at OE 27M has consisted of a site walk by the UXO safety specialist. A Risk Assessment Code (RAC) sheet completed for the site walk identified a firing point. The RAC sheet noted expended flares (OE scrap) and small arms, as well as live blank rounds at this location. No evidence of OE or OE scrap related to artillery use was found. The range fan associated with Firing Point 2 lies almost entirely within previously identified OE sites or areas identified in the Literature Review as areas of concern. These areas are either currently under investigation or have undergone or will undergo evaluation.

**Comment 11: Regarding Appendix C map dated May 2, 1988, it would be helpful if the illegible portions of the legend and range listing could be deciphered as best as possible and provided along with the map. Is the legend contained in the map dated December 1, 1976 identical to that in the May 2, 1988 version?**

Response 11: The original map is of poor quality. The legends on the referenced maps appear almost identical. The number and locations of the ranges identified on both maps is the same. The range use information is also almost identical with some detail on range use differing between the two maps. The map dated May 2, 1988 includes Ranges 1 through 48 which are located either within the Multi-range/impact area (Ranges 18-48) or are the “Beach Ranges” (Ranges 1-17). Range 49 is OE Site 3. Range P-5 is OE Site 14D. The last three ranges, listed as Ranges 1, 2, and 3, are small arms ranges located at the East Garrison. 1A is the Leadership Reaction Course located at the East Garrison, and 2A is the Heavy Vehicle Driving Course also located at the East Garrison.

**APPENDIX E**

**SUMMARY OF PUBLIC COMMENTS AND RESPONSES  
ON THE DRAFT LITERATURE REVIEW REPORT ORDNANCE AND EXPLOSIVES  
REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
FORMER FORT ORD, CALIFORNIA  
DATED SEPTEMBER 24, 1999**

**SUMMARY OF PUBLIC COMMENTS AND RESPONSES  
ON THE DRAFT LITERATURE REVIEW REPORT ORDNANCE AND EXPLOSIVES  
REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
FORMER FORT ORD, CALIFORNIA  
DATED SEPTEMBER 24, 1999**

Comments were received from Save Our Air Resources (S.O.A.R., represented by Ms. Linda Millerick) and from Ms. Debora Bailey of Marina.

Thank you for taking the time and effort to review and comment on the Draft Literature Review Report. The Army has attempted to address concerns submitted from both parties. In order to avoid repetition, similar comments submitted by both SOAR and Ms. Bailey have been summarized and grouped together. Comments submitted by S.O.A.R. are noted by "SOAR" and comments from Ms. Bailey are noted by "Bailey."

**Comment 1: The adequacy of the investigation was raised in several comments from S.O.A.R. and Ms Bailey. Concerns included:**

- **No interviews with people who may have served prior to 1930s (Bailey)**
- **Adequacy of training maps for decision making (Bailey)**
- **Use of OE near roads, and towns (Bailey)**
- **Possibility that OE may be found at depths deeper than the maximum penetration depth (Bailey)**
- **Sampling procedures (Bailey)**
- **Too few people were interviewed (Bailey, SOAR)**
- **Ad in USA Today was not best place to seek information (Bailey)**
- **OE found at sites did not reflect designated use (Bailey).**

Response 1: The literature review was completed following in the Literature Review Work Plan and using the guidance documents referenced therein. The literature review provides a starting point to the overall Ordnance and Explosive Remedial Investigation/Feasibility Study (OE RI/FS), and provides a thorough review of historical records related to previous ordnance-related activities at Fort Ord.

This document identifies areas that are suspected of previous OE use based on review of existing historical documentation and interviews. A brief summary of other activities that will be conducted as part of the OE RI/FS is provided below. Please refer to Draft OE RI/FS Work Plan for more information.

- Technical Memorandum and/or Approval Memorandum will be published providing a more detailed description of the history and use of each transfer parcel prior to a final decision on whether the area should be considered a Non-OE area.

Please refer to Draft Track 0 Technical Memorandum for how the decision will be made for Track 0 areas under the Fort Ord OE RI/FS.

- A review of past OE investigation and removal actions will be completed as part of the OE RI/FS. A work plan describing the methods that will be used to evaluate the past work is in preparation. The evaluation of past work will review the adequacy of past investigation and removals.
- A work plan describing the procedures for conducting OE investigation and response actions will be produced.

The inclusion of the OE Site Category designations as defined in the Phase 2 Engineering Evaluation/Cost Analysis (EE/CA) were provided for background information only. Site specific information regarding sampling protocols and sampling results can be found in the site specific OE after action reports. These reports are available in the Fort Ord Administrative Record.

In response to comments on too few individuals having been interviewed as part of the Literature Review, the Army did attempt to locate others who might have information on training at Fort Ord through publishing advertisements in both USA Today and the Army Times as part of the Final Engineering Evaluation/Cost Analysis – Phase 1, Former Fort Ord, Monterey, California dated April 1998. These advertisements provided a toll free telephone line for responses. A total of 26 telephone responses were received. Information collected from the interviews was used in preparation of the EE/CA and reviewed as part of the Literature Review effort. In addition, as part of the Literature Review, a request for information on ordnance use and training at Fort Ord was submitted to the Fort Ord Alumni Association. To date, no responses have been received.

The Army will continue to collect information related to historical ordnance-related land use at Fort Ord, by maintaining the incident reporting procedures and conducting interviews if and when such persons come forward and are available for interviews.

**Comment 2: The potential for reuse of the Former Fort Ord was questioned**

- **Concerns included digging, constructing and living in areas not investigated for OE (Bailey)**
- **Possibility for people to be injured or killed by OE (Bailey)**
- **OE has been found at and around housing areas, housing areas are located on top of former OE sites (Bailey, SOAR).**

Response 2: The Army is concerned about the potential reuse at Fort Ord. The OE RI/FS process is intended to evaluate the entire Fort Ord property and to make reasonable assurance that public safety will not be compromised. Regulatory oversight is provided by U.S. Environmental Protection Agency (EPA) and California-EPA, Department of Toxic Substances Control (DTSC). However, the purpose of the literature review is to identify areas of previous ordnance-related use and not to address reuse issues at Fort Ord. The issues of reuse and safety will be addressed in other documents; (1) the risks associated with reuse of OE sites will be evaluated in the OE RI/FS, and (2) the Environmental

Baseline Survey (EBS), Finding of Suitability to Transfer (FOST), Finding of Suitability For Early Transfer (FOSET) and Finding of Suitability for Lease (FOSL) process will identify all issues impacting the property including OE.

**Comment 3: Is there enough data to designate areas as Non-OE Areas**

- **Will all incident reports be investigated, should there be more OE Sites (Bailey)**
- **All OE Scrap found should be documented and reported (Bailey)**
- **Because records were lost or destroyed all of Fort Ord is suspect (Bailey)**
- **When exactly did training begin (Bailey).**

Response 3: Prior to final designation as a Non-OE area, all available OE-related information will be reviewed on a transfer parcel specific basis. The results of this effort will be presented in a Technical Memorandum or Approval Memorandum as discussed under response to item 1 above.

**Comment 4: Concern was raised over chemical contamination related to the landfill and contaminated soil excavated at Fort Ord. (Bailey)**

Response 4: The Literature Review does not address chemical contamination. However, results of investigation and intrusive activities at sites with chemical contamination were reviewed for any information that could serve as additional supporting documentation to define areas of OE use. Chemical contamination at Fort Ord is being addressed under the Installation Restoration Program (IRP) or Basewide RI/FS for chemical contamination. Sampling results from these investigations can be found in the applicable site characterization and site confirmation reports. These reports are part of the Fort Ord Administrative Record.

**Comment 5: Questions about the adequacy of ordnance recognition class completed by field personnel investigating chemical contamination, and their requirement to report findings of ordnance-related evidence, were raised. (Bailey, SOAR)**

Response 5: USACE has stringent safety requirements and standards for any contractors or personnel working under its projects. Contractors are required to report any conditions that pose potential safety threat, such as discovery of ordnance-related items. USACE enforces safety requirements through inspection, supervision and reporting as appropriate, and any practices that are inconsistent with these requirements are not tolerated.

**Comment 6: The Land Use (Section 2.2.1) should be updated to include current population information and residential nature of area surrounding Fort Ord. (SOAR)**

Response 6: Text has been revised to state that residential use also occurs south and east of Fort Ord.

**Comment 7: Comments were made regarding open detonation, prescribed burn, and groundwater monitoring for chemical contamination. (Bailey, SOAR)**

Response 7: We understand that the issues pertaining to open detonation, prescribed burning, and groundwater monitoring are extremely important, however, these issues are outside the

scope and investigation of the Literature Review. Documents related to these topics are currently available or will be available, for public review and comment at a later date.

**Comment 8: Comments on the Archives Search Report (Appendix A) Sections 1.2, 3.1, 3.3.2, 4.1, 4.3, 4.3.1, 6.0-6.70, requesting detailed and site specific information. (SOAR)**

Response 8: Comments on the Archives Search Report (ASR) are noted. The ASR was included as an appendix for informational purposes only. Changes to the ASR are not part of the scope of the Literature Review. Details regarding population, geology, hydrogeology etc., will be included in the OE RI/FS to the extent necessary to describe site conditions and evaluate cleanup alternatives. Specific questions regarding items found at OE sites (including location, disposition, disposal methods, etc.) are discussed in the Phase 1 and 2, Engineering Evaluation/Cost Analysis (EE/CA), and/or the site specific OE after action reports (if OE removal is complete), and are available in the Fort Ord Administrative Record.

In response to the mustard gas issue, a detailed description of the discovery and investigation of the empty drum with HD mustard markings was provided to Ms. Millerick in a letter dated September 22, 1999. As stated in the letter, “no mustard agent was detected in the drum or the soil beneath the drum.” Further, “no evidence exists that drums of mustard were stored or used on Fort Ord.”

**Comment 9: Table 5: OE site number column-many listed none. Were these items found outside of OE sites? If so, maybe there should be more OE sites than there are in this draft. (Bailey)**

Response 9: Locations of OE items reported in incident reports are presented on Plate 12 of the Draft Literature Review report. As indicated on Plate 12 several of the items found were found outside of the identified OE sites. However, the presence of single OE item does not necessarily indicate an area of OE use. Isolated items may be present for a variety of reasons including disposal. The designated site use is also considered. Items may also be present as the result of their drifting from nearby or adjacent OE sites (e.g., flares). Items found adjacent to OE sites may also indicate that the boundary of the OE site may require expansion.

**Comment 10: Pg.22, Sec. 4.2.9: “In general, USA does not fill out incident reports in response to ordnance finds they determine are OE scrap.” If OE scrap is found, it is likely that more OE is around. This is another case of incomplete record keeping. All OE and OE scrap should be reported and documented. (Bailey)**

Response 10: All ordnance finds, whether OE scrap or live, when reported, are documented. All Army contractors are required to report OE items found. Every OE item reported whether OE scrap or live is responded to and a response is filed. The immediate area where the item was found is searched. If the item reported is determined by the responding OE contractor or the responding UXO safety specialist to be scrap, a report on the response to the incident is not always generated.

**Comment 11: Pg. 23, Sec. 4.3: “Telephone and personnel interviews were conducted with persons listed in Section 6.” Apparently you interviewed or contacted 23 people-that is not enough. What were their dates of service at Ft. Ord? Could they have witnessed**

every incident at the fort? What about interviews with those who served before the 1930s? Interviewing so few people is outrageous.

*“Additional interviews will be conducted if persons with possible information related to historical OE use at Ft. Ord are identified.”* Does the Army keep records of who served at Ft. Ord? I think everyone who served, worked, trained or lived on or near the base should be interviewed. (Bailey)

Response 11: In addition to interviews conducted for this investigation interview records conducted for other OE and non OE-related investigations were also reviewed and included the ASR, Phase 1 EE/CA, the Enhanced Preliminary Assessment of Monterey Bay, and Volume I of the Literature Review and Base Inventory Report. The Army has interviewed all those who have come forward with information. The Army continues to seek out new information at local public events such as the County fair. As stated in the Comment 1 Response, the Army will continue to collect information related to historical ordnance-related land use at Fort Ord, by maintaining the incident reporting procedures and conducting interviews if and when such persons come forward and are available for interviews.

**Comment 12: Pg. 28, Sec. 5.2.1.8: “To develop an SOP for the sweep and clearing of open areas near housing areas...coordination should be made between the 49<sup>th</sup> EOD and the sweeping unit.” This proves the Army built houses in areas where ammunition was spent. Then on page 29, it is stated that the 49<sup>th</sup> EOD records have probably been destroyed.**

*“Training area A was first indicated on the 1976 Training Facilities Plan. Prior to this date this area was referred to as Training area D or not formally designated...”* I believe the housing in the Patton Park area was built between 1956 and 1964. Was it housing or training in 1976? (Bailey)

Response 12: The Patton Park housing area, which lies adjacent to Area A/D was constructed between 1962 and 1969. Housing construction within Area A/D included Abrams Park (1978 to 1982) and Preston Park (1987 to 1990). The proposed sweep area was adjacent to the Patton Park housing area and within the area that would later become the Abrams and Preston housing areas. No ordnance related items were found during the construction of the Abrams and Preston Park housing areas.

**Comment 13 Pg. 30, Sec. 5.2.1.11: “MST and RRST, the definition of these acronyms and the exact use of this area is unknown.” This sounds like another incident of sloppy record keeping. We must know what MST and RRST mean—could it be CWM (chemical warfare material)? I request extensive soil sampling in and around this area. (Bailey)**

Response 13: As stated in the Draft Literature Report the exact meaning of MST and RRST is unknown. No evidence has been found that would indicate that the area labeled as MST and RRST pertains to Chemical Warfare Material (CWM). Neither MST or RRST stands for CWM. The area was sampled for OE by an ordnance removal contractor and no evidence of OE was found. Additionally, no evidence of OE was found during the construction of the housing area (Schoonover) that currently stands in the location of the

former MST and RRST training area. Based on the available information, extensive soil sampling in this area is unwarranted.

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Literature Review Report  
Former Fort Ord, California

January 4, 2000

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