

Summary Report

Former Temporary Accumulation Area (TAA) 462
Solid Waste Management Unit (SWMU) 140
Former Marine Corps Air Station, El Toro, California

12 September 2002

Prepared by:
Southwest Division, Naval Facilities Engineering Command
BRAC Programs Office
San Diego, CA 92101-2404

Summary Report

*Former Temporary Accumulation Area (TAA) 462
Solid Waste Management Unit (SWMU) 140
Former Marine Corps Air Station, El Toro, California*

12 September 2002

Prepared by:



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Date: 29 April 2004

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MCAS El Toro

To: Diane Silva
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Marine Corps Air Station, El Toro

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TABLE OF CONTENTS

Section	Page
1 Introduction	1
2 Field Inspections and Historical Records	2
3 Findings and Recommendations	6
4 References and/or Sources of Information	7

Figures

Figure 1. Vicinity Map

Figure 2. City of Irvine Reuse Parcel Locations

Appendix

Site Photographs And Other Documentation

Section 1

Introduction

The purpose of this Summary Report is to present information pertaining to the former Temporary Accumulation Area (TAA) 462 at the Former Marine Corps Air Station (MCAS), El Toro. TAA 462 was identified as Solid Waste Management Unit (SWMU) 140 during the Resource Conservation and Recovery Act Facility Assessment (RFA). Former TAA 462 is located on the aircraft parking apron northeast of Building 462, a former aircraft maintenance hangar. The TAA consists of two concrete pads, each surrounded by a 6-inch high concrete berm or curb. Each concrete pad is approximately 11 feet wide by 11 feet long, excluding the width of the curbs and berms. The vicinity of TAA 462 is shown on Figure 1.

The Former Marine Corps Air Station, El Toro, also known as the Station, comprises approximately 4,700 acres in eastern Orange County approximately 45 miles southeast of Los Angeles, California. The Station closed on 2 July 1999 in accordance with the Base Realignment and Closure Act of 1993 (BRAC III). Former TAA 462 is located within a parcel that has been tentatively designated for future use as an open space/golf facility with residential overlay as shown on Figure 2.

Historical facility records and documentation from the environmental compliance program were acquired and reviewed, and the vicinity of former TAA 462 was visually inspected during September 2002. It is estimated that TAA 462 was constructed during the late 1980's and was in use for hazardous waste storage until July 1999. No significant stains or discolored areas or areas of deteriorated concrete were observed at or near the TAA during the visual inspections of 4 and 6 September 2002. Additionally, no significant stains were observed during the visual inspections of 6 May 1991, 5 December 1994, and 10 November 1995.

Based upon the review of historical information and the results of the visual inspections, it is recommended that no further action status be designated for former TAA 462 (SWMU 140) in the next BRAC Business Plan update.

Section 2

Field Inspections and Historical Records

2.1 Field Inspections

TAA 462 was identified during the Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) as SWMU 140. The evaluation of SWMU 140 is presented in the *Installation Restoration Program, Final Resource Conservation and Recovery Act Facility Assessment Report for Marine Corps Air Station, El Toro, California* (Jacobs Engineering Group (JEG) 1993).

TAA 462 consists of two concrete pads, each approximately 11 feet wide by 11 feet long (excluding the width of concrete curbs and berms). A concrete curb or berm, approximately 6 inches high, surrounds each concrete pad. Former TAA 462 encompasses an area of approximately 288 square feet (approximately 12 feet by 24 feet) when the surface areas of the curbs and berms are included. The northwestern concrete pad has a sump, approximately 2 feet wide by 2 feet long by 12 inches deep, and the northwestern pad is surrounded by a 6-inch high concrete berm. The southeastern concrete pad does not have a sump and is surrounded by a 6-inch high concrete curb. The pads are located on a concrete aircraft parking apron northeast of Building 462. The concrete parking apron surrounds much of the area near Buildings 371, 461, and 462.

The concrete surfaces of the two pads, the sump, the berms, and the curb were visually inspected on 4 and 6 September 2002. The concrete was in excellent condition. No significant stains or discolored areas were observed on the concrete surfaces at or near the TAA. No significant cracks or deteriorated areas were observed on the concrete surfaces of the TAA. The surfaces of the sump were inspected, and no cracks or deteriorated areas were observed. The concrete pavement of the adjacent aircraft parking apron is approximately 8 inches thick or more, based upon drilling logs from investigation activities on a similar aircraft parking apron near Buildings 296 and 297 in the southwestern section of the Station. Photographs from the visual inspections of September 2002 are included in the Appendix

Surface runoff flows to the southwest toward Building 462 where an exterior trench drain conveys runoff to the storm sewer system. No stains were observed on the parking apron between TAA 462 and the trench drain adjacent to Building 462.

The initial visual inspection was conducted on 6 May 1991. The inspection record (JEG 1993) states that "There are no significant stains or cracks in the storage area nor the berm surrounding the storage area." The recommendation from the 1991 inspection follows:

"Since this HWSA is located on the tarmac (i.e., the thick concrete of the runway), it is unlikely that any release either past or present would have impacted the subsurface soil. For this reason, no further action is suggested for this site. A potential release to storm drain would be investigated under the SWMUs/AOCs designated for the station's washes."

Visual inspections of TAA 462 were conducted on 5 December 1994 and 10 November 1995 during the preparation of the *Final Addendum to the Resource Conservation and Recovery Act Facility Assessment* (Bechtel 1996). The RFA Addendum indicates that the TAA was in use for storage of waste oil rags and that the concrete pad was clean. The photograph that was taken during the 1994 inspection shows that no items were in storage on the northwestern pad and that drums were in storage on the southeastern pad.

2.2 Historical Property Records and Environmental Program Records

Property records and information from previously published environmental compliance and environmental restoration program projects were acquired and reviewed. Some of the documents are included in the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Administrative Record. Extracts from selected documents are included in the Appendix.

The following table presents historical information pertaining to former TAA 462 and nearby buildings or locations of concern.

Table 1. Former TAA 462 Vicinity, MCAS El Toro.

Building or Feature Identifier	Approximate Date of Construction or Installation	Comments
TAA 462 (SWMU 140)	Late 1980's	TAA 462 is evaluated in this Summary Report.
TAA 461 (SWMU 138)	Late 1980's	TAA 461 is located more than 400 feet south-southwest of TAA 462 and is under investigation as of September 2002.
Building 462	1960	Building 462 was used as an aircraft hangar. Approximate dimensions of building: 258 feet long by 144 feet wide. The SPCC Plan (SCS Engineers 1979) identifies the storage or handling of JP-5 and lube oil at Building 462. Aircraft tie-down anchors are located on the apron near the northwestern side of Building 462.
Building 715	1978	Building 715 was used as a flight line shelter.
Building 728	1983	Building 728 was used as a flight line shelter.
Building 1670	1947	Building 1670 was used as a maintenance shack.
UST 462A		Closed by Orange County Health Care Agency on 27 September 1999
OWS 462B		Closed by Regional Water Quality Control Board, Santa Ana Region on 7 July 2000
SAIC Anomalies		SAIC Anomaly 457 was described as liquid flowing on the pavement surface between Building 461 and Building 462 on a photograph taken on 2 April 1983. SAIC 457 is located on the aircraft parking apron in the area with aircraft tie-down anchors, and it is possible that aircraft were periodically washed in this area. Wash water would flow toward the trench drains on the sides of Buildings 461 and 462. The surface drainage channels were investigated as IRP Site 25, and no further action status was achieved for IRP Site 25 in September 1997. No significant stains or discolored areas were observed in the SAIC 457 vicinity during the visual inspections of September 2002.
USEPA Anomalies		USEPA Anomaly 215 was described as a STAIN on a photograph taken in 1965 and as a PROBABLE DRUM, STAIN on a photograph taken in 1970. USEPA 215 is located approximately south of former TAA 462 on the aircraft parking apron. It is possible that drums were stored in the vicinity of former TAA 462 in 1970. The area of USEPA 215 was inspected during the visual inspections of September 2002 and no significant stains or discolored areas were observed. USEPA Anomaly 248 was described as a STAIN on a photograph taken in 1991. USEPA 248 is located in the vicinity of former TAA 462. The stain may have been caused by water or other liquid. The anomaly is located on the aircraft parking apron in an area with aircraft tie-down anchors. It is possible that aircraft were periodically washed in this area. Wash water would flow toward the trench drain along Building 462. The surface drainage channels were investigated as IRP Site 25, and no further action status was achieved for IRP Site 25 in September 1997. No significant stains or discolored areas were observed in the USEPA 248 vicinity during the visual inspections of September 2002.

Regional Water Quality Control Board, Santa Ana Region Correspondence

The RWQCB letter dated 23 June 1989 (Administrative Record ID M60050.001130) addresses several solvent storage areas and drum storage areas, however, the letter does not identify Building or TAA 462. A copy of the letter is included in the Appendix.

A list dated 17 April 1989 (AR Identifier M60050.000776) of areas where hazardous substances were used or wastes were generated does not identify Building or TAA 462. The list identifies aircraft washing operations near Building 461. The list is included in the Appendix.

Storm Water Pollution Prevention Plan (SWPPP)

The SWPPP includes a spill history table in Section 5, and this table does not identify historic spills near at or near Building or TAA 462. Extracts from the SWPPP are included in the Appendix.

Historical Hazardous Material/Hazardous Waste Management Plan (SAIC 1994)

The Plan includes a photograph of former TAA 462 taken in October 1993. No drums or other items were in storage on TAA 462 when the October 1993 photograph was taken.

Photographs dated 1980 of Drum Storage Areas

Photographs taken by the California Department of Health Services (DHS) in 1980 of drum storage areas (Administrative Record Document Identifier M60050.000924) were reviewed. No photographs of drum storage areas near Building 462 are included in this document. The list of photograph descriptions is included in the Appendix.

Historical Aerial Photograph Anomalies

Science Applications International Corporation (SAIC) evaluated historical aerial photographs of the MCAS El Toro and the results of the evaluation are published in the *Final Report, Aerial Photograph Assessment, MCAS El Toro* (SAIC, 1993). The United States Environmental Protection Agency (USEPA) evaluated historical aerial photographs of MCAS El Toro and the results of the evaluation are published in the *Site Analysis, El Toro MCAS, Orange County, California* (USEPA, 1991). The USEPA report identified anomaly 248 and anomaly 215 in the general vicinity of former TAA 462. The SAIC report identified anomaly 457 in the vicinity of former TAA 462. The anomalies are located in areas that have been previously investigated or are in the process of being investigated. The anomalies are described in Table 1, and additionally information is provided in the Appendix (section with property records, building guides, and historical facility maps).

2.3 Ground Water Conditions

Groundwater conditions in the vicinity of former TAA 462 were investigated during the remedial investigation of Installation Restoration Program (IRP) Site 19, the aircraft expeditionary refueling (ACER) site, that is located northwest of former TAA 462. Monitoring well 19_UGMW35 is located northwest of former TAA 462 on the parking apron. Groundwater is located approximately 146 feet below ground surface based upon water level measurements taken in November 1997 at well 19_UGMW35 (CDM Federal March 1998). A no action Comprehensive Environmental Response, Compensation, and Liability Act Record of Decision (ROD) was signed for IRP Site 19 in September 1997, and the declaration from the ROD is included in the Appendix in the section with no further action decision documents.

Section 3

Findings and Recommendations

The following findings are based upon information collected during the record search activities and from observations during the visual inspections of the vicinity of former TAA 462:

- Former TAA 462, a temporary accumulation area located northeast of Building 462, was identified during Resource Conservation and Recovery Act Facility Assessment (RFA) as Solid Waste Management Unit (SWMU) 140. The TAA includes two concrete pads, and each pad is surrounded by a 6-inch high concrete curb or berm. One pad has a sump, approximately 2 feet wide by 2 feet long by 12 inches deep. The TAA encompasses an area of approximately 288 square feet (approximately 12 feet wide by 24 feet long).
- Historical visual inspections were conducted on 6 May 1991, 5 December 1994, and 10 November 1995 and no significant stains were documented during the inspections. The record for the 6 May 1991 inspection includes a recommendation for no further action based upon the assumption that a release from the TAA would not impact subsurface soils due to the thickness of the concrete apron.
- The Navy inspected the former TAA 462 on 4 and 6 September 2002. No significant stains were observed on the concrete surfaces of the two pads, the curbs, the berms, the sump, or the adjacent parking apron pavement. Additionally, no significant cracks were observed in the concrete surfaces.

Based upon the absence of visual evidence of a significant release at or near former TAA 462 (SWMU 140) and the excellent condition of the concrete pads, the sump, curbs, berms, and adjacent pavement, it is recommended that no further action status be designated for TAA 462 in the next BRAC Business Plan Update.

Section 4

References and/or Sources of Information

Bechtel National, Incorporated. 1996. Final Addendum to the RCRA Facility Assessment, MCAS El Toro, California [Navy Contract N68711-92-D-4670, CTO 65]

CDM Federal Programs Corporation. 1998. Groundwater Monitoring Report, October 1997 Sampling Round, Marine Corps Air Station, El Toro, California. March. [Navy contract N68711-96-D-2029, DO #5]

City of Irvine, California. 2002. Great Park Land Use Plan, The Orange County Great Park. June. [Prepared by the ROMA Design Group and Associated Consultants]

County of Orange. 1999. Preferred Land Use Plan, Concept B. August. [prepared by the MCAS El Toro Local Redevelopment Authority]

Jacobs Engineering Group (JEG). 1993. Installation Restoration Program, Final Resource Conservation and Recovery Act Facility Assessment Report for Marine Corps Air Station, El Toro, California. [Navy Contract N68711-89-D-9296, Contract Task Order 193]

Jacobs Engineering Group (JEG). 1995. Marine Corps Air Station El Toro, El Toro, California, Final Environmental Baseline Survey Report. April. [Navy Contract N68711-89-D-9296, Contract Task Order 284]

Naval Facilities Engineering Command, Southwest Division. 1997. Plant Account Record for MCAS El Toro.

NBS/Lowry Engineers - Planners. 1988. Oil and Hazardous Substance Spill Prevention, Control and Countermeasure Field Survey Report, SPCC Plan, and Spill Contingency Plan for the U. S. Marine Corps Air Station, El Toro, California. [Administrative Record ID # M60050.000800]

Roy F. Weston. 1984. Hazardous Materials/Hazardous Waste Engineering Study. [Administrative Record ID # M60050.000899]

Science Applications International Corporation (SAIC). 1994. Final, Marine Corps Air Station, El Toro, Hazardous Material/Hazardous Waste Management Plan {with Appendices C and I, Hazardous Waste Accumulation Areas and Photographs of Accumulation Points and Hazardous Material Storage Areas}. August. [Contract N68711-92-D-4658, Delivery Order Number 4.]

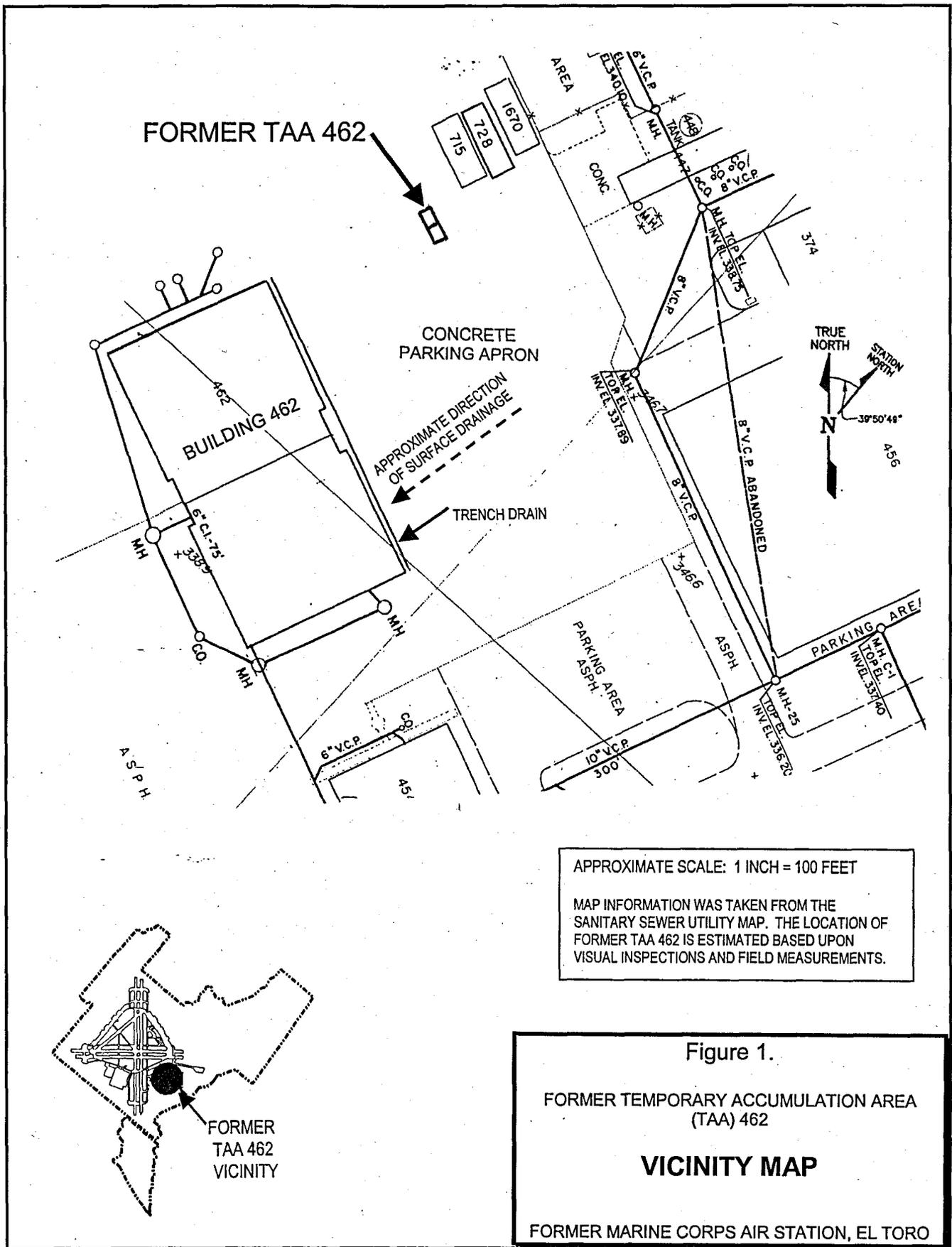
Science Applications International Corporation (SAIC). 1993. Final Report, Aerial Photograph Assessment, MCAS El Toro. Contract N68711-91-D-4658, Delivery Order 0002, SAIC Project No. 01-0892-0817.

SCS Engineers. 1979. Oil and Hazardous Substance Spill Prevention, Control, and Countermeasure Field Survey Report and SPCC Plan (Administrative Record Identifier M60050.000808).

United States Environmental Protection Agency. 1991. Site Analysis, El Toro MCAS, Orange County, California.

United States Marine Corps Air Station, El Toro. 2002. Base Realignment and Closure (BRAC) Business Plan.

United States Marine Corps Air Station, El Toro. Circa 1946-1999. Station Property Records, Utility Maps, Construction Drawings, Facility Maps, Aerial Photographs, and Building Guides.



SENSITIVE RECORD

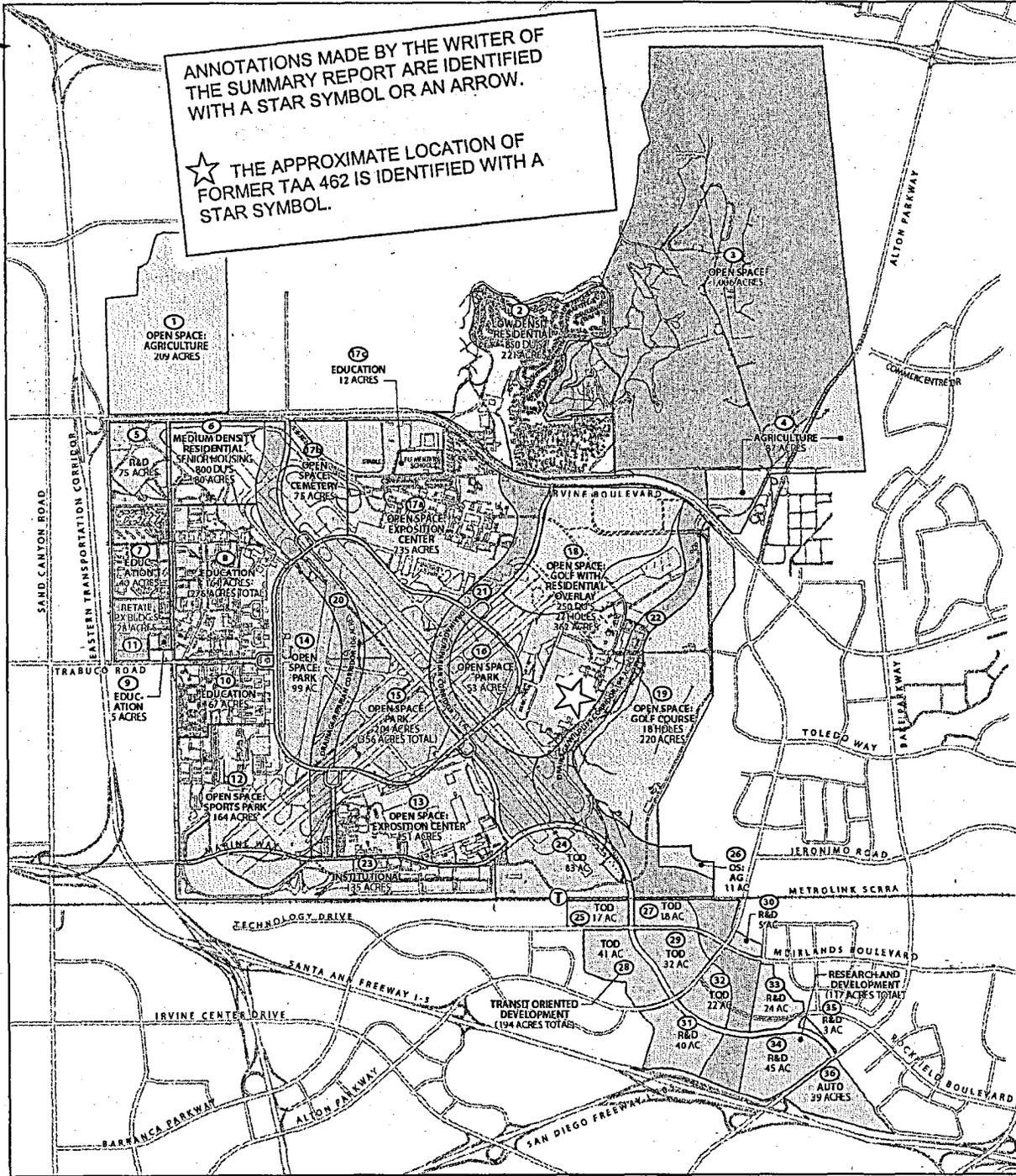
PORTIONS OF THIS RECORD ARE CONSIDERED SENSITIVE
AND ARE NOT AVAILABLE FOR PUBLIC VIEWING

FIGURE 2 – FORMER TEMPORARY ACCUMULATION
AREA (TAA) 462

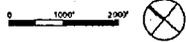
FOR ADDITIONAL INFORMATION, CONTACT:

DIANE C. SILVA, RECORDS MANAGER
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1220 PACIFIC HIGHWAY
SAN DIEGO, CA 92132

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E-MAIL: diane.silva@navy.mil



GREAT PARK LAND USE PLAN



The Orange County Great Park

Prepared for the City of Irvine by ROMA Design Group

JUNE 11, 2002

Figure 2.
 FORMER TEMPORARY ACCUMULATION AREA (TAA) 462
CITY OF IRVINE
REUSE PARCEL LOCATIONS
 FORMER MARINE CORPS AIR STATION, EL TORO

Appendix

Site Photographs and Other Documentation

Site Photographs

Extracts From RFA and EBS Documentation

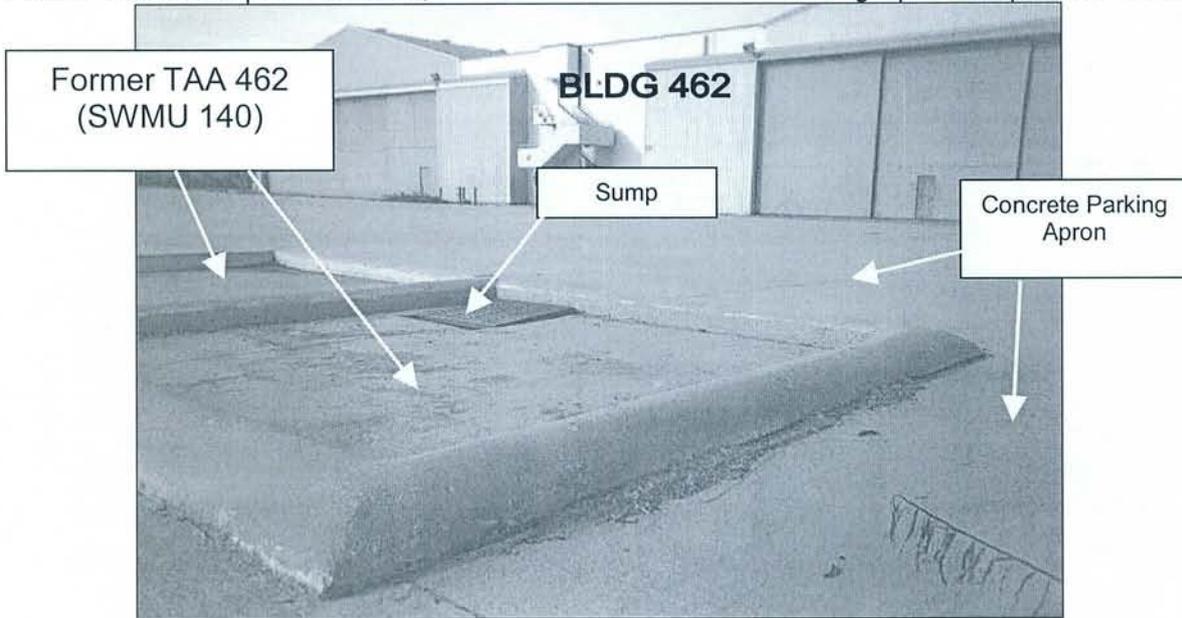
**Extracts from MCAS El Toro Property Records, Building Guides, and
Historical Facility Maps**

Extracts from Historical Hazardous Waste Management Documents

No Further Action Decision Documents for Nearby Locations of Concern

Photograph 1. Former Temporary Accumulation Area (TAA) 462
Solid Waste Management Unit (SWMU) 140 Looking Approximately Southwest Toward Building 462.
Surface runoff flows toward Building 462.

Former Marine Corps Air Station, El Toro Date of Photograph: 4 September 2002

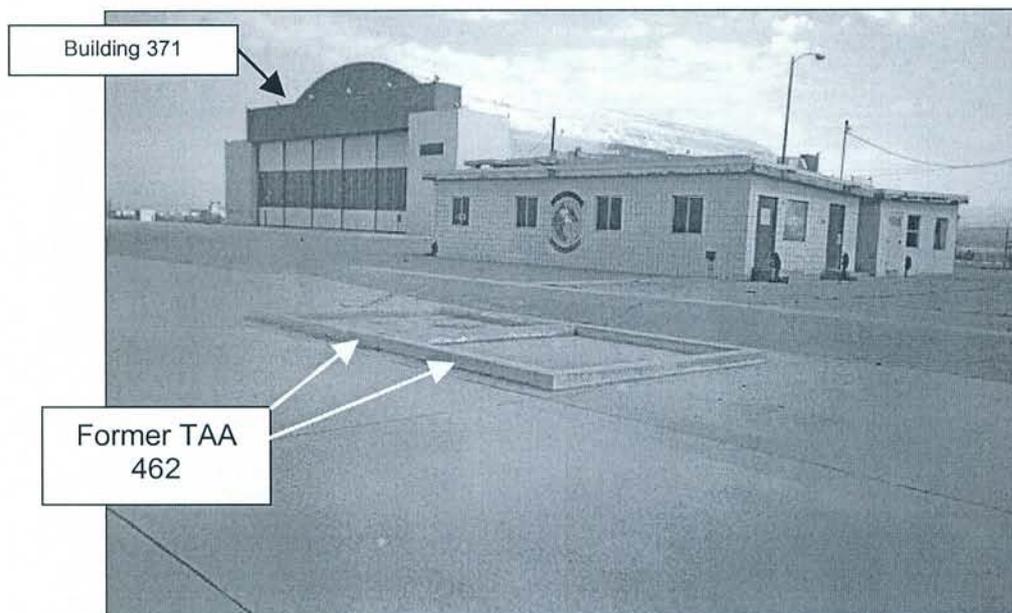


Photograph 2. Former TAA 462 (SWMU 140)

Looking Approximately Northeast Toward Building 371

Former Marine Corps Air Station, El Toro

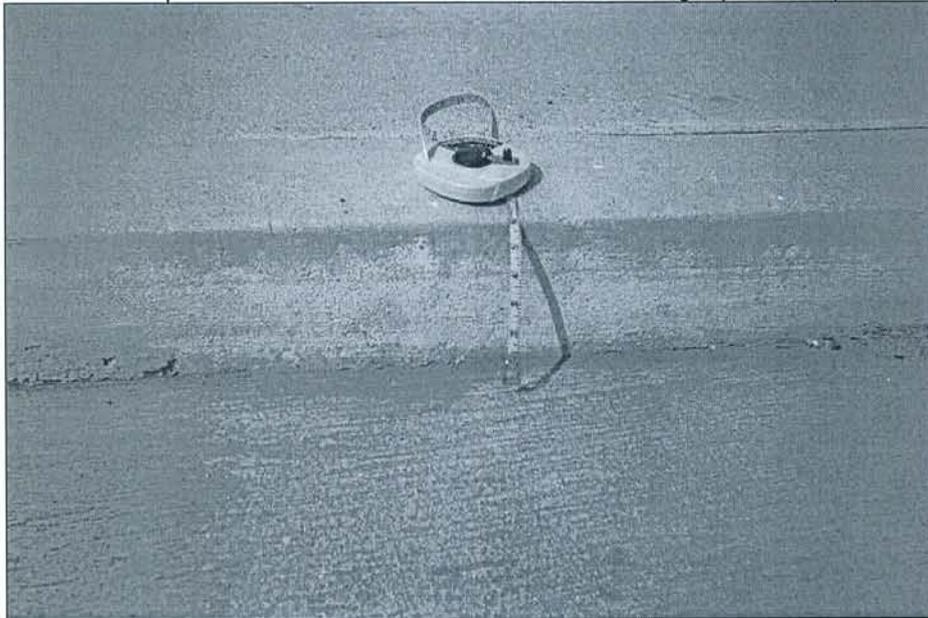
Date of Photograph: 4 September 2002



Photograph 3. Former TAA 462 (SWMU 140)

Concrete Curb on Southeastern Pad

Former Marine Corps Air Station, El Toro Date of Photograph: 4 September 2002



Photograph 4. Former TAA 462 (SWMU 140)

[Southeastern pad in the foreground]

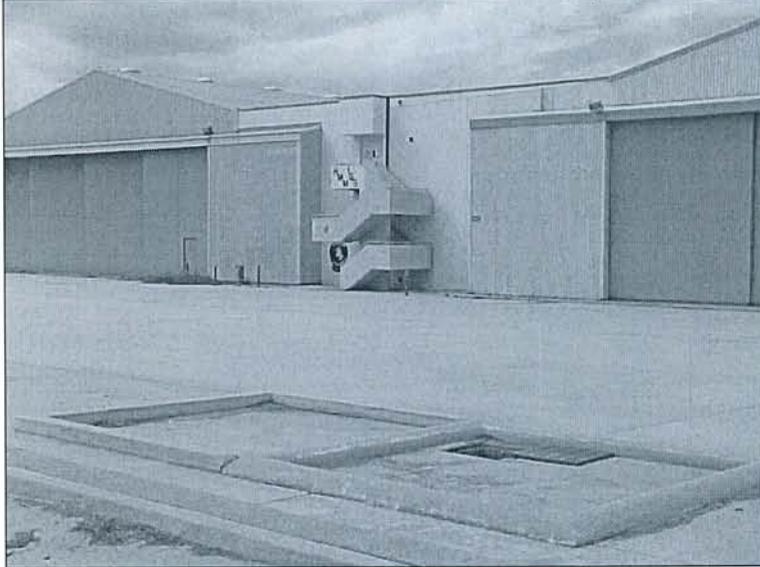
Former Marine Corps Air Station, El Toro Date of Photograph: 4 September 2002



Photograph 5. Former TAA 462 (SWMU 140)

[12-inch deep sump at corner of distant pad (northwestern pad)]

Former Marine Corps Air Station, El Toro Date of Photograph: 6 September 2002



Photograph 6. Former TAA 462 (SWMU 140)

[12-inch deep sump at corner of northwestern pad]

Former Marine Corps Air Station, El Toro Date of Photograph: 6 September 2002



SENSITIVE RECORD

PORTIONS OF THIS RECORD ARE CONSIDERED SENSITIVE
AND ARE NOT AVAILABLE FOR PUBLIC VIEWING

AERIAL PHOTOGRAPH – VICINITY OF FORMER TAA 462
DATE OF AERIAL PHOTOGRAPH: 1994

AERIAL PHOTOGRAPH – VICINITY OF FORMER TAA 462
DATE OF AERIAL PHOTOGRAPH: 28 FEBRUARY 1963

AERIAL PHOTOGRAPH – VICINITY OF FORMER TAA 462
DATE OF AERIAL PHOTOGRAPH: 29 DECEMBER 1946

FOR ADDITIONAL INFORMATION, CONTACT:

DIANE C. SILVA, RECORDS MANAGER
NAVAL FACILITIES ENGINEERING COMMAND, SOUTHWEST
1220 PACIFIC HIGHWAY
SAN DIEGO, CA 92132

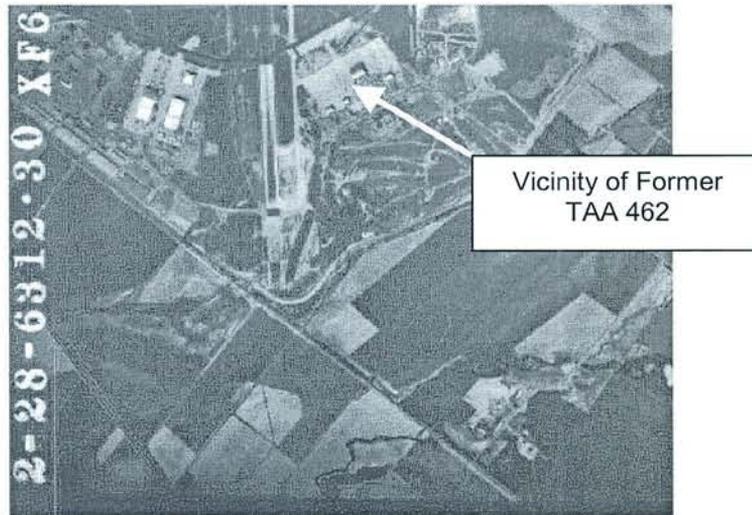
TELEPHONE: (619) 556-1280

E-MAIL: diane.silva@navy.mil

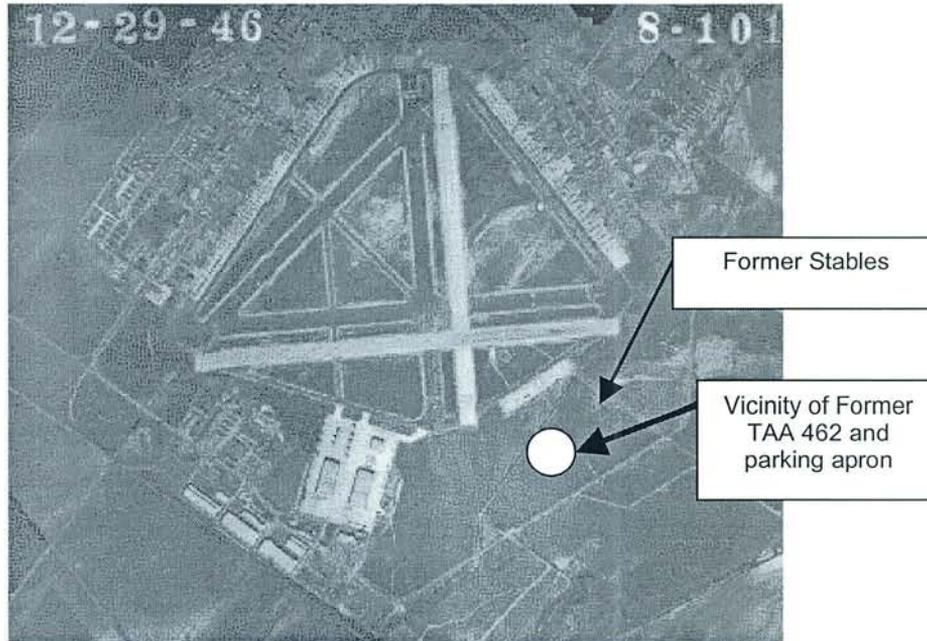
Aerial Photograph. Vicinity of Former TAA 462
Former Marine Corps Air Station, El Toro
Date of Aerial Photograph: 1994



Aerial Photograph. Vicinity of Former TAA 462
Former Marine Corps Air Station, El Toro
Date of Aerial Photograph: 28 February 1963



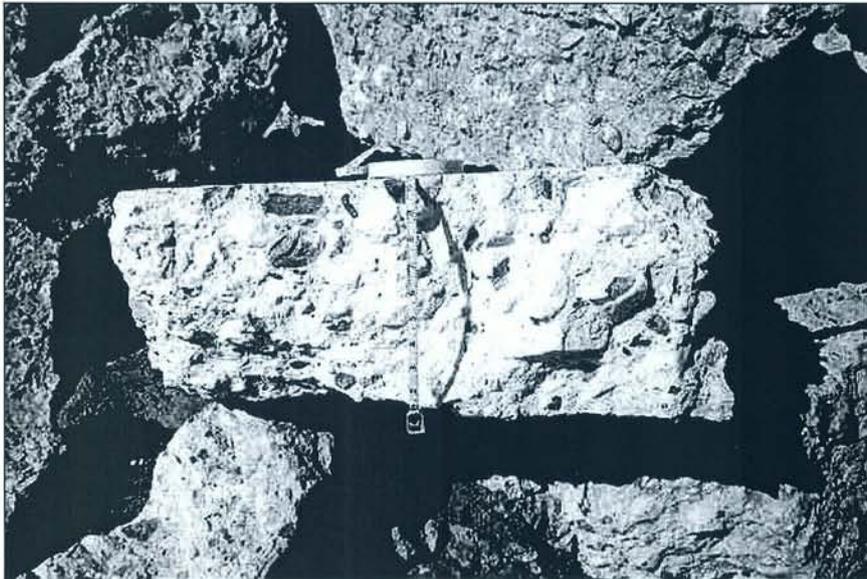
Aerial Photograph. Vicinity of Former TAA 462
Former Marine Corps Air Station, El Toro
Date of Aerial Photograph: 29 December 1946



Photograph of Concrete Apron Pavement Southwest of Building 297,
Former MCAS El Toro.

Date of Photograph: 9 September 2002

Note: This photograph is intended as an exhibit to show the condition and thickness of the concrete parking apron, southwest of Building 297. The concrete parking apron near former TAA 462 is similar. The concrete apron southwest of Building 297 was removed during 2001 to examine and repair a water line; the concrete is more than 8 inches thick.



Extracts from RFA and EBS Documentation

**MARINE CORPS AIR STATION EL TORO
EL TORO, CALIFORNIA
INSTALLATION RESTORATION PROGRAM
FINAL RESOURCE CONSERVATION
AND RECOVERY ACT (RCRA)
FACILITY ASSESSMENT REPORT**

VOLUME I

16 July 1993

PREPARED BY:
Southwest Division, Naval Facilities
Engineering Command
1220 Pacific Highway
San Diego, California 92132-5190

THROUGH:
CONTRACT #N68711-89-D-9296
CTO #193
DOCUMENT CONTROL NO:
CLE-C01-01F193-S2-0001

WITH:
Jacobs Engineering Group Inc.
3655 Nobel Drive, Suite 200
San Diego, California 92122

In association with:
International Technology Corporation
CH2M HILL

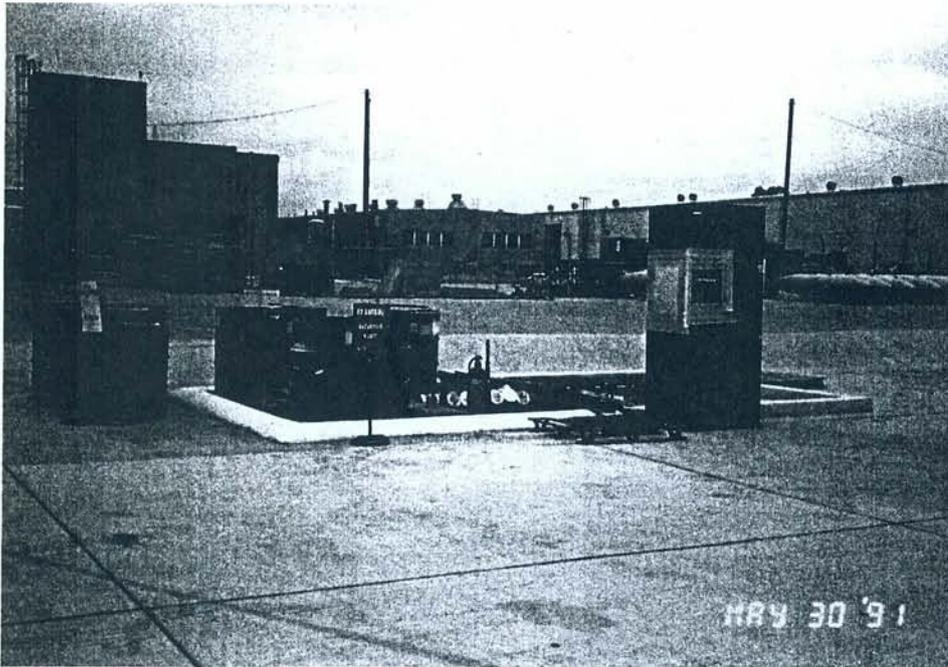
**Evaluation Form
SWMU/Area of Concern
Number 140**

Name: Hazardous Waste Storage Area

Location: South of Building 715

Size: 264 sq ft

Date of Site Visit: 06 May 91



Period of Operation

Currently active

**Evaluation Form
SWMU/Area of Concern
Number 140**

Unit Characteristics

The hazardous waste storage area (HWSA) is located between Buildings 642 and 715, on the tarmac. The HWSA consists of a concrete storage pad surrounded by a 6-in. concrete berm. The storage pad is divided into two sections by a 6-in. concrete berm. The northern section appears to be much older than the southern section. The northern section has a sump located near the southwest corner of the storage area. There are several dark stains on the storage surface, but no signs of release outside the storage were observed. The southern section does not have a sump. There are no significant stains or cracks in the storage area nor the berm surrounding the storage area.

Waste Characteristics

Waste oil
Hydraulic fluid
Antifreeze

Potential Migration Pathways

Possibly to the storm drain system if a significant release occurred.

Evidence of Release

Stain at the north side of the HWSA

Exposure Potential

Authorized on-Station personnel

Recommendations

Since this HWSA is located on the tarmac (i.e., the thick concrete of the runway), it is unlikely that any release either past or present would have impacted the subsurface soil. For this reason, no further action is suggested for this site. A potential release to storm drain would be investigated under the SWMUs/AOCs designated for the station's washes.

**TABLE 4-1
COMPREHENSIVE LIST OF SWMUs AND AREAS OF CONCERN
IDENTIFIED DURING THE PRELIMINARY REVIEW/VISUAL SITE INSPECTION
MCAS EL TORO RFA**

SWMU	SWMU TYPE	SOURCE (1)	LOCATION/BUILDING	COMMENTS	DATE	SIZE	MATERIAL	CONTENTS
121	Drum Storage Area (2)	a	390					
122	Drum Storage Area	c	390			480 sq ft		
123	Vehicle Wash Rack	a	390	Duplicate of SWMU/AOC 213				
124	Hazardous Waste Storage Area	Active, a	392					
125	Hazardous Waste Storage Area	Active	415					
126	Hazardous Waste Storage Area	Active	442					
127	Drum Storage Area	d	445					
128	Storage Area	e	445	Waste stored inside the building. Inactive				
129	Underground Storage Tank	f	445		1959	100 gal	Steel	Waste Oil & Water
130	Drum Storage Area	a	447					
131	Engine Test Cell	a	447					
132	Oil/Water Separator	f	447	Active	1959	100 gal	Steel	
133	Drum Storage Area (2)	b	453					
134	Drum Storage Area (2)	a	454					
135	Drum Storage Area	a	456					
136	Aircraft Wash Area	a	481					
137	Oil/Water Separator	f	461		1960	1,500 gal	Steel	Sand, and waste #2 fuel oil
138	Drum Storage Area	a	461					
139	Oil/Water Separator	f	462		1960	1,500 gal	Steel	Sand, and waste #2 fuel oil
140	Hazardous Waste Storage Area	Active	462					
141	Aircraft Wash Area	a	463					
142	Drum Storage Area (2)	a	463					
143	Underground Storage Tank (2)	f	493	Inactive	1944	Unknown	Concrete	Waste Oil
144	Drum Storage Area	b	529					
145	Underground Storage Tank	f	529	Inactive	1944	25,000 gal	Concrete	Unk., Waste Oil
146	Drum Storage Area	a,b	534					
147	Drum Storage Area	a,b	602					
148	Oil/Water Separator	f	602	Inactive, Possible Duplicate of SWMU/AOC 215	1964		Concrete	
149	Drum Storage Area	a	605					
150	Aircraft Wash Area	a	605					

4-15

Southwest Division
Naval Facilities Engineering Command
Contracts Department
1220 Pacific Highway, Room 135
San Diego, CA 92132-5187

Contract No. N68711-92-D-4670

**COMPREHENSIVE LONG-TERM ENVIRONMENTAL
ACTION NAVY
CLEAN II**

**FINAL ADDENDUM TO THE
RCRA FACILITY ASSESSMENT
MCAS EL TORO, CALIFORNIA
(VOLUME 6 OF THE FINAL RFA REPORT)**

CTO-0065/0170

May 1996

Prepared by:

BECHTEL NATIONAL, INC.
401 West A Street, Suite 1000
San Diego, CA 92101



Signature: _____

Jacques Lord, CTO Leader

Date: _____

31 May 1996

ACCUMULATION AREA EVALUATION CHECKLIST

(CIRCLE AS APPROPRIATE AND FILL IN COMPLETELY)

JOB 22214 CTO-0065
NAVY CLEAN II MCAS EL TORO RFA CONFIRMATION ACTIVITIES

GENERAL DESCRIPTION:

SWMU #: 140 Accumulation Area (AA) #: 462
Location (bldg): HWSA/Bldg. 462
Site Contact: Leta Suarez Ext: 2772
Permission for Access? Y N If yes, explain:
Type of Wastes Observed None

TYPE: (CIRCLE AS APPROPRIATE)

~~Locker~~ ~~Cabinet~~ Pad Concrete/Soil/Asphalt/ floor
 Berm ~~Fence~~ Fence Type: ~~Indoor~~
 Pallets ~~Drum(s)~~ No. of Drums: Outdoor

CONDITION:

~~Stain(s)~~ ~~Odor(s)~~ ~~Crack(s)~~
Placards/Labels: Y N If Yes, list: Hazwaste: Waste oil rags

Observations: Pad is clean, wet with some rain water. Berm is covered with yellow tarp.

Status: Active as of 11-10-95.

DIMENSIONS: (ESTIMATED SIZE OR AREA IN FT)

AA/SWMU: 10x25 ft.
"Stain(s)" : None.
Any Restrictions To Access?: None.

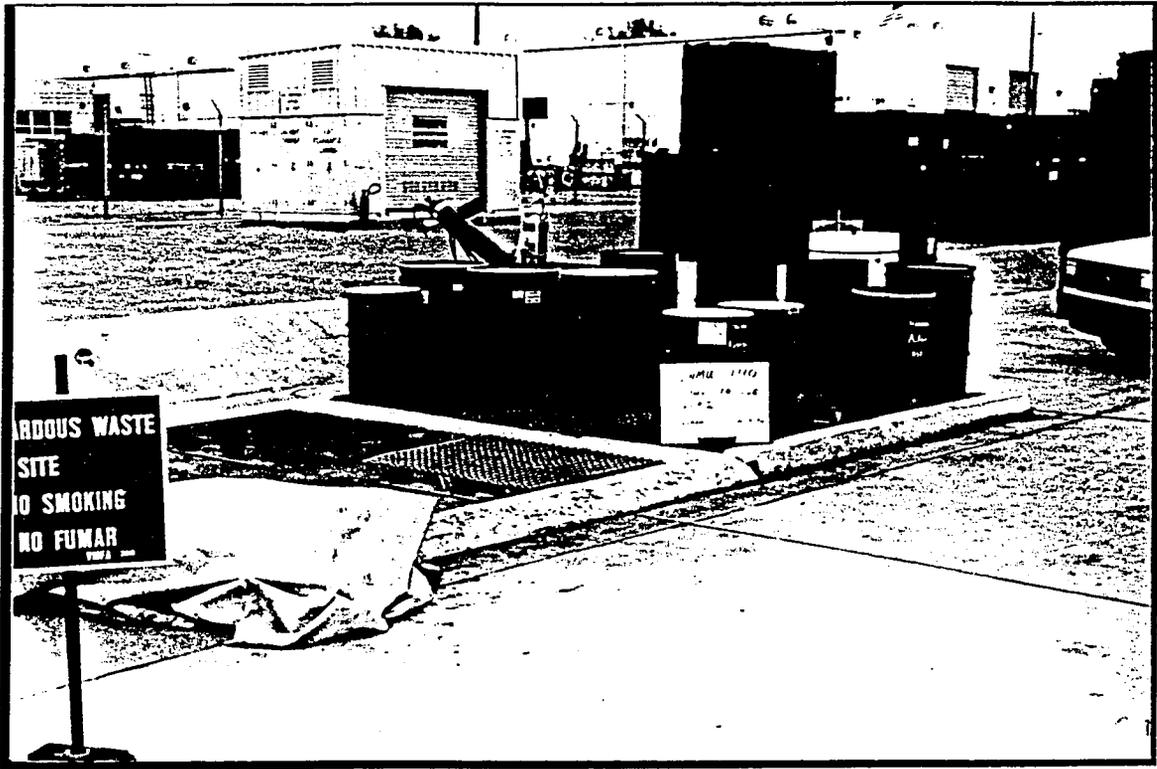
EVALUATION OF REMOVAL/DECONTAMINATION STRATEGY (CIRCLE AS APPROPRIATE)

Yes No Potential for release evident based on this surveillance
Yes No Potential for simple removal
Yes No Potential for decontamination activities prior to removal
Yes No Potential for sampling (describe:)
Yes No Potential for removal after additional assessment activities

SKETCH: (MAKE A SKETCH or ATTACH PHOTO(S) OF RELEVANT ACCESS, OBJECTS, WORK SPACE, ETC., AS APPROPRIATE, ON REVERSE OF THIS FORM)

DATE/TIME OF SURVEILLANCE: 12/5/94/15:00
UPDATED: 11-10-95/13:38
SURVEILLANCE PERFORMED BY: Larry Bauman

PHOTO LOG



SWMU #: 140

PHOTO DATE: 12-14-94

MARINE CORPS AIR STATION EL TORO
EL TORO, CALIFORNIA
INSTALLATION RESTORATION PROGRAM
FINAL ENVIRONMENTAL
BASELINE SURVEY REPORT

01 April 1995

Revision 0

EXTRACTS

Annotations made by the writer of the
Summary Report are identified with a
star symbol or an arrow.

PREPARED BY:
Southwest Division, Naval Facilities
Engineering Command
1220 Pacific Highway
San Diego, California 92132-5190

THROUGH:
CONTRACT #N68711-89-D-9296
CTO #284
DOCUMENT CONTROL NO:
CLE-C01-01F284-S2-0004

WITH:
Jacobs Engineering Group Inc.
401 West A Street, Suite 1905
San Diego, California 92101

In association with:
International Technology Corporation
CH2M HILL

M. W. Arends

3/31/95

Mike Arends, P.E.
CLEAN Project Manager
CH2M HILL, Inc.

Date

Max Pan

3-31-95

Max Pan, P.E.
CLEAN Technical Reviewer
IT Corporation

Date

Table 3-7
Less Than 90-Day Accumulation Area Inventory
MCAS El Toro EBS Report - April 1995

Database Tracking	Building Number	Status	SWMU/AOC	Comments	AREA TYPE
SAA 441	441	Inactive	256	RFA recommended NFA	3
SAA 442	442	Inactive	126	Sampling Visit Not Recommended During PR/VS/	2
SAA 445	445	Inactive	127	Sampling Visit Not Recommended During PR/VS/	2
SAA 447	447	Inactive	130	RFA recommended NFA	3
SAA 456	456	Inactive	135	Sampling Visit Not Recommended During PR/VS/	2
SAA 461	461	Active	138	RFA recommended NFA (1)	2
SAA 462	462	Active	140	Sampling Visit Not Recommended During PR/VS/	2
SAA 529	529	Inactive	144	RFA recommended NFA	2
SAA 534	534	Inactive	146	Sampling Visit Not Recommended During PR/VS/	2
SAA 602	602	Inactive	147	RFA recommended NFA	3
SAA 605	605	Active	149	RFA recommended NFA	3
SAA 606	606	Active	255	RFA recommended NFA	2
SAA 626	626	Active	158	IRP Site 20 (1)	7
SAA 634	634	Active		Identified in 1994 SPCC Plan	7
SAA 636	636	Inactive	160	RFA recommended NFA	3
SAA 651	651	Active	165	Located within SWMU/AOC 164	3
SAA 658	658	Active	171	Shallow soil borings recommended	7
SAA 671	671	Active	172	RFA recommended NFA	2
SAA 672	672	Inactive	177	Sampling Visit Not Recommended During PR/VS/	2
SAA 673	673	Active	186	RFA recommended NFA	2
SAA 693	693	Active		Identified in Station's HW Open Drum Inspection Report	7
SAA 698	698	Active		Identified in 1994 SPCC Plan	7
SAA 744	744	Active		Identified in 1994 SPCC Plan	7
SAA 746	746	Active		Identified in Station's HW Open Drum Inspection Report	-7
SAA 747	747	Active		Identified in Station's HW Open Drum Inspection Report	7
SAA 761	761	Inactive		Located at IRP Site 6 (2)	7
SAA 765	765	Inactive	266	Sampling Visit Not Recommended During PR/VS/	2
SAA 769	769	Inactive	222	RFA recommended NFA	2
SAA 770	770	Inactive	223	RFA recommended NFA	3
SAA 771	771	Inactive	224	RFA recommended NFA	2
SAA 772	772	Inactive	225	RFA recommended NFA	3
SAA 778	778	Inactive	226	RFA recommended NFA	3
SAA 779	779	Inactive	227	RFA recommended NFA	3
SAA 800	800	Active	229	RFA recommended NFA	2
SAA 831	831	Active		Identified in Station's HW Open Drum Inspection Report	7
SAA 856	856	Active	234	RFA recommended NFA	3
SAA 900	900	Active		Environmental Office accumulation area	7

Extracts from MCAS El Toro Property Records, Building Guides, and Historical Facility Maps

BLDG
TIME: 09:27:37

C L A S S 2 P R O P E R T Y R E C O R D

DATE: 94/06/25

(004) UIC..M60050
MCAS EL TORO SANTA ANA CA

(001) PR NO.....201753
(005) FACILITY NO..462
(106) SPEC AREA....

(604) EXCESS CODE..
(605) EXCESS DATE..

PR LAST UPDATED....02 JUN 1994

L O C A T I O N

(101) COUNTRY..US UNITED STATES
(102) STATE....06 CALIFORNIA
(103) COUNTY...059 ORANGE
(104) CITY.....0000
(107) MAP GRID.R11

G E N E R A L I N F O R M A T I O N

(007) ACTION.....CAP-IMPROV
(008) FAM HOUSING....NO
+(009) EE DATE.....01 MAR 1977
(011) PR REVIEW DATE..11 AUG 1992
(010) FACILITY NAME..
HANGAR/SQUADRON/

A C Q U I S I T I O N

(201) ESTATE.....11 MCON
(202) ACQ CONTRACT...NBY7439
(203) ACQ DATE.....01 MAR 1960
(204) GOVT COST..... \$3,176,386
(CONST, DESIGN, OVERHEAD & OTHER)
(205) APPR/EST.....
(206) APPR/EST DATE..
(207) LAND CCN.....91140
(014) NATO JFAI.....

I N G R A N T S

(208) DOD INSTL.....
(209) RENT PAID.....
(210) REF PR NO.....
(211) IG EFF DATE....
(212) IG EXP DATE....
(213) IG MAX TERM....
(233) IG EFD CONTR...
(234) IG LESSOR NAME.

M E A S U R E M E N T S

	ENGLISH	METRIC
+(301) LENGTH....	258 FT	+ 78 M
+(302) WIDTH.....	144 FT	+ 43 M
+(303) HEIGHT....	36 FT	11 M
+(304) / (308) AREA/UM...	36,136 SF	+ 3,357 m2
+(305) STORIES...	02	
(307) IRREGULAR.	YES	

C O N S T R U C T I O N

(401) YEAR BUILT.....1960
(402) CONSTRUCTION TYPE..PERMANENT
(403) YEAR IMPROVED.....1987
(410) HISTORIC IND...
(404) ABMP CODE.....
(409) CURR PROJ ID...PO19
(411) ORIG PROJ ID...

M A I N T E N A N C E

(701) MAINT UTC..M60050 (702) PRIME USE....21105 (703) MFC...4 USMC

Annotations made by the writer of the Summary Report are identified with a star symbol or an arrow.

PLANT ACCOUNT RECORDS FOR BUILDING 462.

94JUN25

EFD.N68711

MC.MOC

PR.2-01753

CONT

BLDG
TIME: 09:27:37

C L A S S 2 P R O P E R T Y R E C O R D

DATE: 94/06/25

(C - O - N - T - I - N - U - A - T - I - O - N)

(004) UIC..M60050
MCAS EL TORO SANTA ANA CA

(001) PR NO.....201753
(005) FACILITY NO..462
(106) SPEC AREA....

(604) EXCESS CODE..
(605) EXCESS DATE..

PR LAST UPDATED....02 JUN 1994

S T A T U S / U T I L I Z A T I O N

(502) CATEGORY CODE...21105 (501) USE..VMA (AW) -242 HANGAR BAY SP
(510) USER UIC.....M09668.....VMA (AW) 242 BATS
(511) USE LAST UPDATED.01 JUN 1994

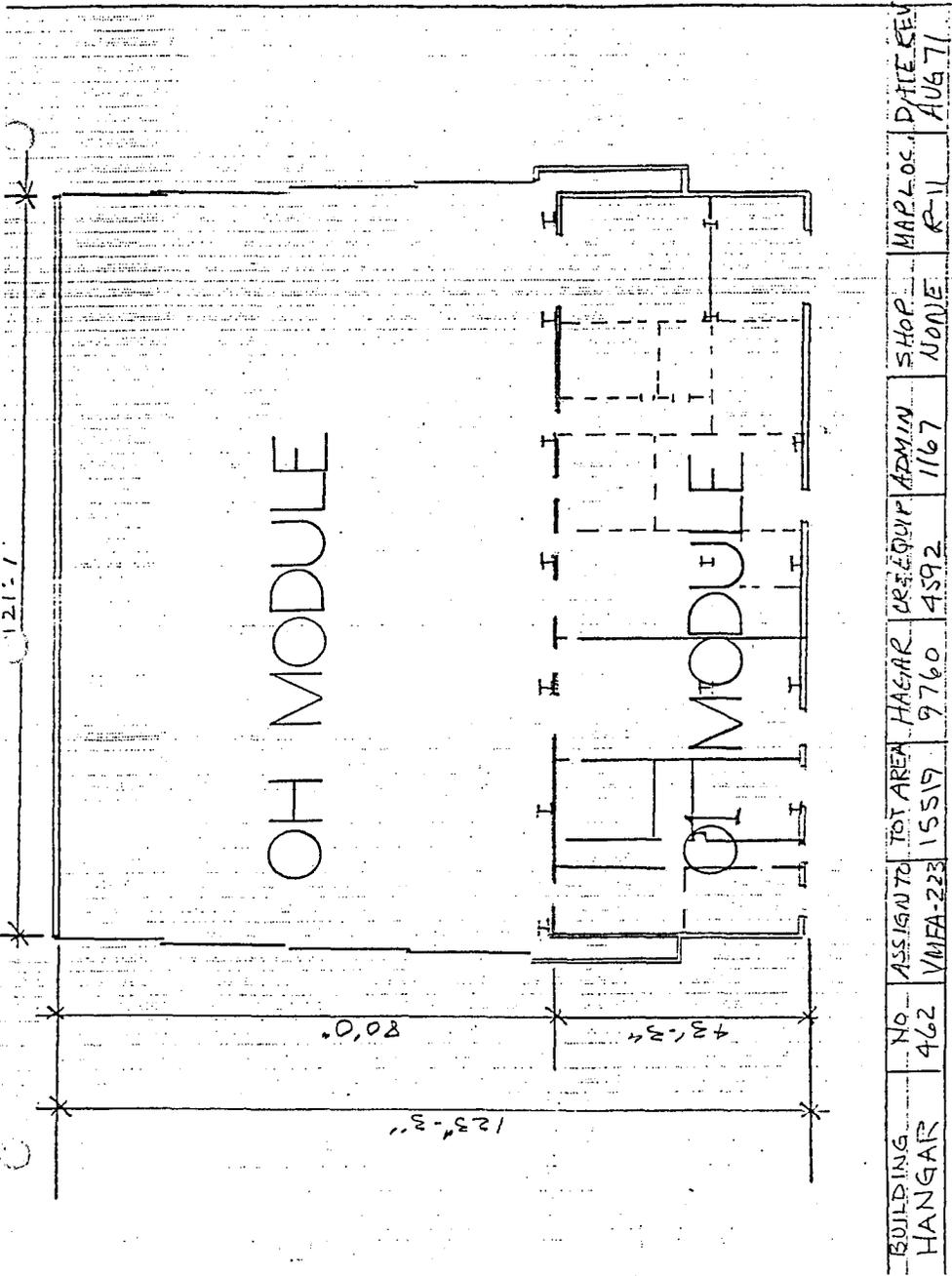
ENGLISH	AREA/SF*	OTHER/	ALT/	DEF CODES
+ADEQ (515)	20,480.00	(516)	(517)	+(524)
SBST (518)		(519)	(520)	(525)
INAD (521)		(522)	(523)	(526)
TOTAL	20,480.00			

METRIC	AREA/m2*	OTHER/	ALT/	DEF CODES
+ADEQ (515)	1,902.65	(516)	(517)	(524)
SBST (518)		(519)	(520)	(525)
INAD (521)		(522)	(523)	(526)
TOTAL METRIC	1,902.65			

(502) CATEGORY CODE...21106 (501) USE..VMA (AW) -242 CREW/EQ SPACE
(510) USER UIC.....M09668.....VMA (AW) 242 BATS
(511) USE LAST UPDATED.02 JUN 1994

ENGLISH	AREA/SF*	OTHER/	ALT/	DEF CODES
+ADEQ (515)	11,132.00	(516)	(517)	+(524)
SBST (518)		(519)	(520)	(525)
INAD (521)		(522)	(523)	(526)
TOTAL	11,132.00			

METRIC	AREA/m2*	OTHER/	ALT/	DEF CODES
+ADEQ (515)	1,034.20	(516)	(517)	(524)
SBST (518)		(519)	(520)	(525)
INAD (521)		(522)	(523)	(526)
TOTAL METRIC	1,034.20			



BUILDING HANGAR	NO 462	ASSIGN TO VMFA-223	TOT AREA 15519	HANGAR 9760	DRS EQUIP 4592	ADMIN 1167	SHOP NONE	MAP LOS R-1	DATE REV AUG 71
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BLDG CLASS 2 PROPERTY RECORD
 TIME: 09:27:37 DATE: 94/06/25
 (C-O-N-T-I-N-U-A-T-I-O-N)
 (004) UIC..M60050 (001) PR NO.....201753
 MCAS EL TORO SANTA ANA CA (005) FACILITY NO..462
 (106) SPEC AREA....
 (604) EXCESS CODE..
 (605) EXCESS DATE..
 PR LAST UPDATED....02 JUN 1994
 +(502) CATEGORY CODE...21107 (501) USE..MAINT HANGAR-02 SPACE
 +(510) USER UIC.....M09668.....VMA (AW) 242 BATS
 (511) USE LAST UPDATED.01 JUN 1994

ENGLISH	AREA/SF*	OTHER/	ALT/	DEF CODES
+ADEQ (515)	4,524.00	(516)	(517)	(524)
SBST (518)		(519)	(520)	(525)
INAD (521)		(522)	(523)	(526)
TOTAL	4,524.00			
METRIC	AREA/m2*	OTHER/	ALT/	DEF CODES
+ADEQ (515)	420.29	(516)	(517)	(524)
SBST (518)		(519)	(520)	(525)
INAD (521)		(522)	(523)	(526)
TOTAL METRIC	420.29			

	87215	MISC FENCING /NAMAR HSG/	INF239	19550115	SY	0	0	0	0	\$1,826	\$11,279	1955	
	87110	STORM SEWER STATION HOUSING	NOY13828	19470115	SY	0	0	0	0	\$36,393	\$291,013	1947	1992
	85220	SIDEWALK /BITUMINOUS/	NOY13828	19470115	SY	6,223	12872	4	0	\$14,532	\$125,237	1947	
	85220	SIDEWALK /CONCRETE/	NOY13828	19470115	SY	500	0	0	0	\$2,726	\$23,493	1947	
	85220	SIDEWALK /CONCRETE/	FPHACAL4898N	19450115	SY	6,309	18540	3	0	\$26,129	\$311,118	1945	
	85220	SIDEWALK /CONCRETE/	N32	19540615	SY	20,834	53958	3	0	\$25,469	\$163,333	1954	
449	72111	ENLISTED BARRACKS	NBY7440	19591101	SF	29,109	253	72	31	\$1,808,358	\$3,826,761	1959	1988
450	72111	ENLISTED BARRACKS	NBY7440	19591101	SF	29,109	253	72	31	\$1,814,394	\$3,837,263	1959	1988
451	72111	BARRACKS	NBY7440	19591101	SF	29,109	253	72	31	\$1,809,252	\$3,830,048	1959	1988
452	72111	BARRACKS	NBY7440	19591101	SF	29,109	253	72	31	\$1,803,334	\$3,822,361	1959	1988
446	84440	WATER TANK 25000 GAL	NBY11724	19591201	SY	0	18	0	12	\$28,323	\$153,426	1959	
448	84440	WATER TANK 25000 GALLON	NBY11724	19591201	SY	0	18	0	12	\$28,323	\$153,426	1959	
459	84440	STORAGE TANK /GRND NONPOT	NBY10014	19591101	SY	0	0	0	33	\$63,856	\$316,819	1959	1985
721	13460	OPTICAL LANDING SYSTEM	NBY10014	19591101	SY	0	0	0	0	\$80,433	\$435,706	1959	1978
	11642	BLAST PROTECTION	NBY10014	19591101	SY	28,808	0	0	0	\$15,431	\$83,034	1959	
457	61071	GROUP HEADQUARTERS	NBY7439	19600101	SF	25,000	200	150	13	\$509,979	\$1,948,035	1960	1990
461	21105	HANGAR/SQUADRON/	NBY7439	19600101	SF	35,362	241	144	36	\$2,431,025	\$4,182,205	1960	1987
462	21105	HANGAR/SQUADRON/	NBY7439	19600301	SF	36,136	258	144	36	\$3,176,386	\$5,190,439	1960	1987
463	21105	HANGAR/SQUADRON	NBY7439	19600101	SF	15,519	123	121	36	\$453,993	\$1,680,771	1960	1986
453	21107	MAINT SQUADRON HEADQUARTERS	NBY7439	19600101	SF	5,040	90	56	11	\$96,549	\$505,820	1960	
454	21107	MAINT SQUADRON HEADQUARTERS	NBY7439	19600101	SF	5,040	90	56	11	\$103,052	\$539,334	1960	1988
455	17135	OPERATIONAL TRAINER FACILITY	NBY7439	19600101	SF	9,040	90	56	11	\$1,033,299	\$1,626,191	1960	1990
456	44111	WAREHOUSE	NBY7439	19600101	SF	70,163	320	200	20	\$594,762	\$2,884,823	1960	1993
458	44130	FLAMMABLE STOREHOUSE	NBY7439	19600101	SF	2,000	50	40	13	\$61,219	\$191,395	1960	1986
600	44112	STOREHOUSE/SQDN/		19610401	SF	4,108	100	41	16	\$9,747	\$51,016	1961	
711	21188	AIRCRAFT POWER CHECK FAC	NBY30316	19610101	SY	0	223	90	0	\$51,775	\$267,780	1961	1978
	13635	34L CARRIER DECK LTG.		19610101	SY	0	0	0	0	\$4,103	\$21,545	1961	
601	73075	RECREATION RESTROOMS	SS1	19620201	SF	92	14	6	8	\$3,773	\$19,359	1962	
599	14187	LIQUID OXYGEN TRANSFER	NBY24700	19600801	SF	884	34	26	9	\$75,556	\$221,640	1960	1984
	89021	COMPR AIR DIST	NBY36852	19630701		0	0	0	0	\$549,112	\$734,403	1962	1988
	11110	RUNWAY/3-21	NOY5421	19630501	SY	112,000	4032	250	0	\$884,272	\$12,133,096	1943	
	11110	RUNWAY/7R25L	NOY5421	19630501	SY	216,696	8280	250	0	\$1,329,789	\$18,246,035	1943	
	11110	RUNWAY/7L25R	NOY5421	19630501	SY	216,696	8280	250	0	\$1,281,289	\$17,580,566	1943	
	11110	RUNWAY/34R16L	NOY5421	19630501	SY	275,113	11080	250	0	\$2,175,147	\$30,110,560	1943	1986
	11110	RUNWAY/34L16R	NOY5421	19630501	SY	309,507	12000	250	0	\$1,062,756	\$14,582,075	1943	
	87135	RETAINING WALL /WHERRY HSG	NBY43587	19640501	SY	0	2513	0	0	\$20,098	\$97,576	1964	
1798	74079	RIDING STABLE-PEN SHELTER (1		19631101	SF	2,700	245	20	10	\$5,287	\$26,424	1963	
A	71144	MAG-16 GROUP COMMANDER	NA	19640501	SF	3,227	75	65	10	\$13,250	\$183,420	1943	
B	71143	COMMANDING OFFICER QTRS	NA	19640501	SF	2,564	74	62	10	\$9,450	\$130,816	1943	
	13471	RADIO FREQ/WEATHER TV SYSTEM	NBY43586	19640601	SY	0	0	0	0	\$54,250	\$263,872	1964	
602	21145	VAN MAINTENANCE SHOP		19640801	SF	4,800	80	60	25	\$9,672	\$29,585	1964	1985
	13636	SIMULATED CARRIER DECK LTG	NBY57674	19641101	SY	0	0	0	0	\$32,170	\$156,475	1964	
	87120	CONCRETE GUTTER	NBY61442	19650901	SY	0	0	0	0	\$2,438	\$11,554	1965	
607	73075	GOLF COURSE RESTROOMS		19651101	SF	92	14	7	8	\$1,386	\$6,574	1965	
	11340	AIRCRAFT ACCESS APPR		19561201	SY	31,948	0	0	0	\$927,291	\$3,523,313	1956	1990
	13650	TAXIWAY		19651201	SY	0	0	0	0	\$1,045,804	\$5,541,662	1951	1990
615	740			19660301	SF	1,743	42	42	20	\$31,046	\$142,191	1966	
	872			19661001	SY	0	0	0	0	\$225,526	\$1,352,438	1943	1990
	8721			19661001	SY	0	0	0	0	\$1,082,758	\$2,880,659	1943	1991
605	2110			19670201	SF	23,598	162	112	40	\$516,892	\$2,226,546	1965	1990
606	2110			19670201	SF	23,598	162	112	40	\$522,427	\$2,235,796	1965	1988
616	61010			19670201	SF	792	36	22	8	\$19,199	\$77,975	1966	1989
114	21105	ICE HANGAR	NBY57700	19660701	SF	25,232	246	112	40	\$647,550	\$2,742,496	1966	1985

Annotations made by the writer of the Summary Report are identified with a star symbol or an arrow.

PLANT ACCOUNT RECORD FOR BUILDING 462.

6421	71171	SAN JOAQUIN OFFICER'S HSG	N6247471C4170	19731001	SF	2,085	72	42	12	\$17,630	\$48,747	1973
6422	71171	SAN JOAQUIN OFFICER'S HSG	N6247471C4170	19731001	SF	2,085	72	42	12	\$17,630	\$48,747	1973
6423	71171	SAN JOAQUIN OFFICER'S HSG	N6247471C4170	19731001	SF	2,085	72	42	12	\$17,630	\$48,747	1973
6424	71171	SAN JOAQUIN OFFICER'S HSG	N6247471C4170	19731001	SF	2,085	72	42	12	\$17,630	\$48,747	1973
	81230	SAN JOAQUIN HSG ELECT DISTR	N6247471C4170	19731001		0	0	0	0	\$177,833	\$484,794	1973 1979
	85110	ROADS - SAN JOAQUIN HSG	N6247471C4170	19731001	SY	61,800	0	0	0	\$311,035	\$860,012	1973
	85220	SIDEWALKS SAN JOAQUIN HSG	N6247471C4170	19731001	SY	7,662	0	0	0	\$45,784	\$126,593	1973
	75036	T/V DISTR-SAN JOAQUIN HSG	N6247471C4170	19731001	SY	0	0	0	0	\$22,146	\$61,234	1973
	82410	GAS MAINS SAN JOAQUIN HSG	N6247471C4170	19731001		0	0	0	0	\$105,565	\$291,887	1973
	83210	SANITARY SEWER-SAN JOAQUIN	N6247471C4170	19731001		0	0	0	0	\$190,308	\$526,202	1973
	87110	STORM SEWER-SAN JOAQUIN HSG	N6247471C4170	19731001	SY	0	0	0	0	\$181,781	\$502,624	1973
	87130	IRRIGATION FAC-SAN JOAQUIN	N6247471C4170	19731001	SY	0	0	0	0	\$305,471	\$844,627	1973
	84210	WATER DISTR-SAN JOAQUIN HSG	N6247471C4170	19731001		0	0	0	0	\$129,458	\$357,951	1973
	87215	INTERIOR FENCE-SAN JOAQUIN	N6247471C4170	19731001	SY	0	0	0	0	\$34,911	\$96,529	1973
	81240	SECURITY LIGHTNG-SAN JOAQUIN	N6247471C4170	19731001		0	0	0	0	\$4,987	\$13,789	1973
672	21430	REFUELING VEHICLE MAINT	N6247472C0208	19731101	SF	1,600	40	40	17	\$24,054	\$66,509	1973
671	61072	REFUEL VEHICLE ADMIN OFFICE	N6247472C0208	19731101	SF	840	42	20	12	\$30,735	\$84,982	1973
702	73025	GATE/SENTRY HOUSE		19760801	SF	81	9	9	8	\$7,213	\$15,943	1976 1984
707	69010	SIGN-STATION ACTIVITIES		19760101	SY	0	0	0	11	\$4,105	\$7,892	1976 1988
708	69010	SIGN-STATION ACTIVITIES		19760101	SY	0	0	0	11	\$3,518	\$7,901	1976
709	21188	POWR CH PAD-NO SUPPRESSION	N6247476C2858	19770101	SY	0	0	0	0	\$15,215	\$31,366	1977 1979
710	21188	POWR CH PAD-NO SUPPRESSION	N6247476C2858	19770101	SY	0	0	0	0	\$15,215	\$31,366	1977 1979
713	44130	GENERAL STORAGE SHED	N6247476C2826	19770401	SF	3,600	90	40	12	\$27,284	\$68,007	1977
683	43110	COLD STORAGE/READY ISSUE	N6247473C5299	19740901	SF	15,183	241	63	16	\$649,981	\$1,705,916	1974 1988
717	14120	GENERAL STORAGE SHED	N6247477C6402	19780301	SF	1,000	50	20	8	\$28,942	\$51,095	1978 1990
716	21101	ACFT ACOUSTICAL ENCLOSURE	N6247475C6679	19780301	SF	8,880	154	130	28	\$1,670,187	\$2,458,377	1978 1986
714	14130	FLIGHT LINE NO. 2	N6247477C2118	19780331	SF	1,000	50	20	9	\$56,875	\$120,259	1977 1982
→	715	21115 FLIGHT LINE FACILITY NO. 1	N6247477C2118	19780301	SF	1,000	50	20	9	\$55,850	\$118,737	1977
	41170	VAPOR RECOVERY SYSTEM	N6247474C3613	19771130	SY	0	0	0	0	\$320,423	\$588,340	1977 1983
	85115	LOADING DOCK	N6247477C6403	19780512	SY	227	67	30	0	\$17,838	\$34,731	1978
718	74064	EM/SNCO MODULAR CLUB	N6247476C7215	19780701	SF	43,960	240	200	23	\$2,771,551	\$5,390,923	1978 1989
694	74023	COMMISSARY	N6247473C5755	19760101	SF	47,120	248	190	20	\$1,706,234	\$4,063,560	1975 1986
693	17135	C-130F FLIGHT TRAINER FAC	N6247474C3849	19770706	SF	5,467	77	71	24	\$343,806	\$700,431	1977 1986
	81320	SUBSTATION FOR B.693	N6247474C3849	19770706		0	0	0	0	\$31,000	\$65,906	1977
722	74002	CONVENIENCE FOOD STORE	N6247477C2352	19800819	SF	12,000	120	100	19	\$788,088	\$1,269,290	1980 1988
725	73025	GATE 9 SENTRY HOUSE	NA	19791201	SF	24	6	4	8	\$2,144	\$3,167	1979 1985
726	21115	FLIGHT LINE SHELTER	NA	19810501	SF	1,000	50	20	8	\$12,775	\$18,971	1981
727	21115	FLIGHT LINE SHELTER	NA	19810501	SF	1,000	50	20	8	\$16,232	\$23,998	1981 1984
→	728	14130 FLIGHT LINE SHELTER	P6104981	19830301	SF	1,000	50	20	8	\$23,559	\$32,084	1983 1985
729	73025	MAIN GATE SENTRY HOUSE	NA	19790101	SF	48	8	6	8	\$2,989	\$4,954	1979 1990
	85235	GOLF CART PATHS HOLES 1-9		19790601	SY	5,167	9300	5	0	\$13,929	\$24,223	1979
730	61010	COMMUNICATION CENTER	N6247476C7131	19800919	SF	6,500	130	50	16	\$956,918	\$1,487,285	1980 1990
731	72111	UEPH	N6247479C5203	19800701	SF	41,157	269	51	28	\$3,018,822	\$4,760,374	1980 1984
732	72111	UEPH	N6247479C5203	19800701	SF	41,157	269	51	28	\$3,053,201	\$4,813,652	1980 1985
	13510	SCANDATA COMPUTER LINES	N6247479C0503	19791107		0	360	0	0	\$14,507	\$25,228	1979
	13410	VORTAC ANTENNA PAD/SCREEN	N6247479C0497	19800314	SY	0	0	0	0	\$6,230	\$10,037	1980
	81320	TRANSFORMER @ B. 716	N6247475C6679	19780301		0	0	0	0	\$13,500	\$26,285	1978
737	72210	VACANT	NA	19810401	SF	1,000	50	20	8	\$2,850	\$3,927	1981 1984
1815	21115	METAL STORAGE BUILDING	NA	19791001	SF	100	10	10	6	\$439	\$769	1979
	14930	E-28 ARRESTING GEAR R/W 7R	N6247480C4481	19810210	SY	0	0	0	0	\$95,615	\$141,988	1981
	14930	E-28 ARRESTING GEAR R/W 7L	N6247480C4481	19810210	SY	0	0	0	0	\$95,615	\$141,988	1981
	13464	RUNWAY DISTANCE MARKERS	N6247480C4483	19810220	SY	0	0	0	0	\$81,900	\$121,622	1981
733	82109	BEQ BOILER BLDG	N6247477C2811	19800505	SF	1,689	52	45	11	\$252,776	\$399,757	1980 1984

5009	71140	PUBLIC QUARTERS/ENLISTED/	NOY13828	19470801	SF	1,508	58	26	11	\$13,727	\$112,602	1947	1981
5010	71140	PUBLIC QUARTERS/ENLISTED/	NOY13828	19470801	SF	1,508	58	26	11	\$13,843	\$113,602	1947	1981
5011	71140	PUBLIC QUARTERS /ENLISTED/	NOY13828	19470801	SF	1,508	58	26	11	\$13,641	\$111,861	1947	1981
5012	71140	PUBLIC QUARTERS /ENLISTED/	NOY13828	19470801	SF	1,508	58	26	11	\$13,641	\$111,861	1947	1981
5013	71140	PUBLIC QUARTERS /ENLISTED/	NOY13828	19470801	SF	1,508	58	26	11	\$13,752	\$112,817	1947	1981
5014	71140	PUBLIC QUARTERS /ENLISTED/	NOY13828	19470801	SF	1,508	58	26	11	\$13,641	\$111,861	1947	1981
5015	71140	PUBLIC QUARTERS /ENLISTED/	NOY13828	19470801	SF	1,508	58	26	11	\$13,641	\$111,861	1947	1981
5016	71140	PUBLIC QUARTERS /ENLISTED/	NOY13828	19470801	SF	1,508	58	26	11	\$13,641	\$111,861	1947	1981
5017	71140	PUBLIC QUARTERS /ENLISTED/	NOY13828	19470801	SF	1,508	58	26	11	\$13,641	\$111,861	1947	1981
5018	71140	PUBLIC QUARTERS/ENLISTED/	NOY13828	19470801	SF	1,508	58	26	11	\$13,727	\$112,602	1947	1981
5019	71140	PUBLIC QUARTERS/ENLISTED/	NOY13828	19470801	SF	1,508	58	26	11	\$13,727	\$112,602	1947	1981
5020	71140	PUBLIC QUARTERS /ENLISTED/	NOY13828	19470801	SF	1,508	58	26	11	\$13,664	\$112,059	1947	1981
5021	71140	PUBLIC QUARTERS /ENLISTED/	NOY13828	19470801	SF	1,508	58	26	11	\$13,664	\$112,059	1947	1981
5022	71140	PUBLIC QUARTERS /ENLISTED/	NOY13828	19470801	SF	1,508	58	26	11	\$13,664	\$112,059	1947	1981
5023	71140	PUBLIC QUARTERS /ENLISTED/	NOY13828	19470801	SF	1,508	58	26	11	\$13,664	\$112,059	1947	1981
5024	71140	MARRIED ENLISTED MENS QTRS	NOY13828	19470801	SF	1,508	58	26	11	\$13,470	\$110,387	1947	1981
5025	71140	PUBLIC QUARTERS /ENL/	NOY13828	19470801	SF	1,508	58	26	11	\$13,739	\$112,705	1947	1981
1646	73076	MARIJUHANNA DOG KENNEL		19470501	SF	960	48	20	8	\$31,058	\$131,007	1947	1990
1650	21154	AVIATION ARMAMENT	NOY13669	19471201	SF	1,680	84	20	8	\$3,693	\$30,604	1947	
1655	61072	NBC SCHOOL INSTRUCTORS OFCE	NOY13669	19470201	SF	960	48	20	8	\$6,178	\$51,197	1947	1977
1656	44112	STORAGE	NOY13669	19470201	SF	960	48	20	8	\$6,178	\$51,197	1947	1977
1662	44112	NBC SCHOOL	NOY13669	19470101	SF	960	48	20	8	\$6,177	\$51,189	1947	1977
1670	21115	MAINT SHACK	NOY13669	19470201	SF	960	48	20	8	\$5,076	\$42,065	1947	
280	74076	LIBRARY/SPECIAL SVCS OFFICES		19451101	SF	12,404	156	116	13	\$101,939	\$1,011,570	1945	1990
279	74025	FAMILY SVCS/DRUG & ALCOHOL	NOY8759	19451101	SF	12,960	180	36	22	\$59,951	\$453,760	1945	1989
277	72111	VACANT		19451101	SF	12,960	180	36	22	\$38,758	\$433,791	1945	1990
276	44111	STORAGE	NOY8759	19451101	SF	12,960	180	36	22	\$40,919	\$394,146	1945	1990
275	17120	BAND TRAINING	NOY8759	19440901	SF	12,960	180	36	22	\$53,410	\$575,869	1944	1983
273	73085	POST OFFICE	NOY8759	19440901	SF	5,104	88	58	10	\$25,583	\$239,370	1944	1986
5233	71161	RENTAL HOUSING /NAMAR/		19450301	SF	2,383	116	20	10	\$11,893	\$137,322	1945	1980
5225	71161	RENTAL HOUSING /NAMAR/		19450301	SF	2,383	116	20	10	\$11,893	\$137,322	1945	1980
5214	71161	RENTAL HOUSING /NAMAR/		19450301	SF	2,383	116	20	10	\$11,893	\$137,322	1945	1980
5213	71161	RENTAL HOUSING /NAMAR/		19450301	SF	2,383	116	20	10	\$11,893	\$137,322	1945	1980
5201	71161	RENTAL HOUSING /NAMAR/		19450301	SF	5,258	128	20	19	\$22,578	\$260,270	1945	1980
5202	71161	RENTAL HOUSING /NAMAR/		19450301	SF	5,258	128	20	19	\$22,578	\$260,270	1945	1980
5203	71161	RENTAL HOUSING /NAMAR/		19450301	SF	5,258	128	20	19	\$22,578	\$218,187	1945	1980
5204	71161	RENTAL HOUSING /NAMAR/		19450301	SF	5,258	128	20	19	\$22,578	\$260,270	1945	1980
5205	71161	RENTAL HOUSING /NAMAR/		19450301	SF	5,258	128	20	19	\$22,578	\$260,270	1945	1980
5206	71161	RENTAL HOUSING /NAMAR/		19450301	SF	5,258	128	20	19	\$22,578	\$260,270	1945	1980
5207	71161	RENTAL HOUSING /NAMAR/		19450301	SF	5,258	128	20	19	\$22,578	\$260,270	1945	1980
5208	71161	RENTAL HOUSING /NAMAR/		19450301	SF	5,258	128	20	19	\$22,578	\$260,270	1945	1980
5209	71161	RENTAL HOUSING /NAMAR/		19450301	SF	5,258	128	20	19	\$22,578	\$260,270	1945	1980
5235	71161	RENTAL HOUSING /NAMAR/		19450301	SF	5,258	128	20	19	\$22,578	\$260,270	1945	1980
5236	71161	RENTAL HOUSING /NAMAR/		19450301	SF	5,258	128	20	19	\$22,578	\$260,270	1945	1980
5239	71161	RENTAL HOUSING /NAMAR/		19450301	SF	5,258	128	20	19	\$22,578	\$260,270	1945	1980
5241	71161	RENTAL HOUSING /NAMAR/		19450301	SF	5,258	128	20	19	\$22,578	\$260,270	1945	1980
5212	71161	RENTAL HOUSING /NAMAR/		19450301	SF	2,158	105	20	10	\$12,816	\$148,322	1945	1980
5232	71161	RENTAL HOUSING /NAMAR/		19450301	SF	2,158	105	20	10	\$12,816	\$148,322	1945	1980
5226	71161	RENTAL HOUSING /NAMAR/		19450301	SF	2,158	105	20	10	\$12,816	\$148,322	1945	1980
5227	71161	RENTAL HOUSING /NAMAR/		19450301	SF	2,158	105	20	10	\$12,816	\$148,322	1945	1980
5228	71161	RENTAL HOUSING /NAMAR/		19450301	SF	2,158	105	20	10	\$12,816	\$148,322	1945	1980
5229	71161	RENTAL HOUSING /NAMAR/		19450301	SF	2,158	105	20	10	\$12,816	\$148,322	1945	1980
5230	71161	RENTAL HOUSING /NAMAR/		19450301	SF	2,158	105	20	10	\$12,816	\$148,322	1945	1980

El Toro Building Guide

BLDG	GRI	DESCRIPTION	TENANT	CATCO	CAC	SIZE
443	O2	LTV Center	Training	17117	EBAO	1280 SF
445	U9	Hazardous/Flam Storehouse	Installation	44130	EBDO	3998 SF
445	U9	(Old Test Cell)	Vacant	17135	EBAO	2715 SF
446	U9	Storage Tank/Nonpotable	Installation	84440	EAUO	5000 GA
447	Q11	Engine Test Cell	MALS-11	21181	EBVO	2715 SF
448	Q11	Storage Tank/Nonpotable	Installation	84440	EAUO	25000
449	N1	Bachelor Enlisted Quarters	Billeting	72111	EBGO	126 PN
449	N1	Bachelor Enlisted Quarters	Billeting	72112	EBGO	24 PN
450	N2	Bachelor Enlisted Quarters	Billeting	72111	EBGO	126 PN
450	N2	Bachelor Enlisted Quarters	Billeting	72112	EBGO	24 PN
451	N2	Bachelor Enlisted Quarters	Billeting	72111	EBGO	126 PN
451	N2	Bachelor Enlisted Quarters	Billeting	72112	EBGO	24 PN
452	N2	Bachelor Enlisted Quarters	Billeting	72111	EBGO	126 PN
452	N2	Bachelor Enlisted Quarters	Billeting	72112	EBGO	24 PN
453	R11	Maint Hangar O2 Space	HMM-164	21107	EBVO	5040 SF
454	R11	Maint Hangar O2 Space	HMM-165	21107	EBVO	5040 SF
455	Q12	Operational Trainer Fac	MAG-11	17135	EBAO	9050 SF
456	Q12	Aviation Supply Office	CACI	61010	EBFO	600 SF
456	Q12	Organic Storage	MALS-11	41112	EBFO	69563
457	Q12	(Barber Shop)	Vacant	54010	EBEO	168 SF
457	Q12	Branch Dental Clinic	13th Dental	54010	EBEO	494 SF
457	Q12	Enlisted Mess Hall	MAG-11/G-4	72210	EBGO	2500 SF
457	Q12	(Group Headquarters)	Vacant	61071	EBFO	21838
458	R11	Hazardous/Flam Storehouse	HMM-164	44130	EBDO	2000 SF
459	Q13	Storage Tank/Nonpotable	MWR/Rec	84440	EAVO	1000000
460	Q13	Water Sply Bldg/Nonpotable	MWR/Rec	84410	EAUO	438 SF
461	R11	Maint Hangar O2 Space	HMM-164	21107	EBVO	4524 SF
461	R11	Maint Hangar O1 Space	HMM-164	21106	EBVO	10358
461	R11	Maint Hangar OH Space	HMM-164	21105	EBVO	20480
462	R11	Maint Hangar O2 Space	HMM-165	21107	EBVO	4524 SF
462	R11	Maint Hangar O1 Space	HMM-165	21106	EBVO	11132
462	R11	Maint Hangar OH Space	HMM-165	21105	EBVO	20480
463	Q11	Engine Maintenance Shop	VMFAT-101	21121	EBVO	5759 SF
463	Q11	Maint Hangar OH Space	VMFAT-101	21105	EBVO	9760 SF
464	S13	Golf Course Clubhouse	MWR/Rec	74080	EBLO	8748 SF
469	P12	Equip Storage Bldg	MALS-11	44112	EBDO	69 SF
471	P4	Sta Training Pool/Tank	Training	17955	ECFO	1 EA
472	P4	Wading Pool	Training	17955	ECFO	1 EA
475	O3	Storage Bldg/Disbursing	Compt	61010	EBFO	192 SF
496	U6	Shop Storage Bldg	Installation	21925	EBBO	480 SF
519	S3	Sta Training Pool/Tank	Training	17955	ECFO	1 EA
520	S3	Wading Pool	Training	17955	ECFO	1 EA
523	O4	Storage	Grd Safety	44112	EBDO	192 SF
529	U6	PW Expend WIP Storage	Installation	21925	EBBO	3040 SF
530	T6	Storage Tank/Potable Water	Installation	84140	EAQO	10000
534	U6	Hazardous/Flam Storehouse	Supply	44130	EBDO	800 SF

1992 BUILDING GUIDE

Page No.
02/12/92

MCAS EL TORO BUILDING GUIDE

FAC NO.	MAP GRID	DESCRIPTION	TENANT	CAT CODE NUMB	COST ACCT CODE	SIZE	
452	N2	Bachelor Enlisted Quarters	Station	72111	7170	126	PN
452	N2	Bachelor Enlisted Quarters	Station	72112	7170	24	PN
453	R11	Maint Hangar O2 Space	VMA-(AW)242	21107	71UO	5040	SF
454	R11	Maint Hangar O2 Space	VMA-(AW)121	21107	71UO	5040	SF
455	Q12	Operational Trainer Fac	Station	17135	6713	9050	SF
456	Q12	General Warehouse MC	MALS-11	44111	7140	69563	SF
456	Q12	Aviation Supply	CACI	44111	7140	600	SF
457	Q12	Group Headquarters	MAG-11	61071	7160	21838	SF
457	Q12	Barber Shop	MWR	74009	71JO	168	SF
457	Q12	Branch Dental Clinic	13th Dental	54010	7150	494	SF
457	Q12	Enlisted Mess Hall	Food Serv	72210	7170	2500	SF
458	R11	Hazardous/Flam Storehouse	VMA-(AW)242	44130	7140	2000	SF
459	Q13	Storage Tank/Nonpotable	MWR-Rec	84440	76JO	1000000	GA
460	Q13	Water Sply Bldg/Nonpotable	MWR-Rec	84410	76JO	438	SF
461	R11	Maint Hangar OH Space	VMA-(AW)242	21105	71UO	19520	SF
461	R11	Maint Hangar O1 Space	VMA-(AW)242	21106	71UO	11518	SF
462	R11	Maint Hangar OH Space	VMA-(AW)121	21105	71UO	19520	SF
462	R11	Maint Hangar O1 Space	VMA-(AW)121	21106	71UO	11518	SF
463	Q11	Maint Hangar OH Space	VMFAT-101	21105	71UO	9760	SF
463	Q11	Maint Hangar O1 Space	VMFAT-101	21121	71UO	5759	SF
464	S13	Golf Course Clubhouse	MWR-Rec	74080	71JO	8748	SF
469	P12	Equip Storage Bldg	MALS-11	44112	7140	69	SF
471	P4	Sta Training Pool/Tank	Training	17955	7570	1	EA
472	P4	Wading Pool	Training	17955	7570	1	EA
475	O3	Storage Bldg/Disbursing	Compt	61010	7160	192	SF
496	U6	Shop Storage Bldg	FMD	21925	7120	480	SF
519	S3	Sta Training Pool/Tank	Training	17955	7570	1	EA
520	S3	Wading Pool	Training	17955	7570	1	EA
523	O4	Storage	Grd Safety	17120	7140	192	SF
529	U6	PW Expend WIP Storage	FMD	21925	7120	3040	SF
530	T6	Storage Tank/Potable Water	FMD	84140	76FO	10000	GA
534	U6	Hazardous/Flam Storehouse	Supply	44130	7140	800	SI
536	J15	Small Arms/Pyro Magazine	Sta Ordn	42148	71NO	1250	SI
537	J14	Small Arms/Pyro Magazine	Sta Ordn	42148	71NO	1250	SI
538	I14	Small Arms/Pyro Magazine	Sta Ordn	42148	71NO	1250	SI
539	H14	Small Arms/Pyro Magazine	Sta Ordn	42148	71NO	140	SI
540	H15	High Explosive Magazine	Sta Ordn	42112	71NO	140	SI
542	F15	High Explosive Magazine	Sta Ordn	42122	71NO	1250	SI
543	G14	Fuse & Detonator Magazine	Sta Ordn	42122	71NO	1250	SI
544	G14	Smokeless Pwdr Proj Magazine	Sta Ordn	42122	71NO	1250	SI
545	H13	Small Arms/Pyro Magazine	Sta Ordn	42122	71NO	1250	SI
546	H14	High Explosive Magazine	Sta Ordn	42122	71NO	1250	S
547	K12	ACFT Ready Fuel Storage	Supply	12430	75AO	551313	G
548	K12	ACFT Ready Fuel Storage	Supply	12430	75AO	549933	G
549	K13	ACFT Ready Fuel Storage	Supply	12430	75AO	550110	G
550	K13	ACFT Ready Fuel Storage	Supply	12430	75AO	550055	G
551	K13	ACFT Ready Fuel Storage	Supply	12430	75AO	551113	G
552	K13	Misc POL Pipeline Facility	Supply	12520	75AO	304	S

6200-	I&J	PUBLIC QUARTERS		
6424	9, 10, 11, & 12	(OFFICER & ENLISTED)	300	FA
5001-	M-7/8/9	PUBLIC QUARTERS (ENLISTED)	50	FA
5025				
5031-	Q-3	PUBLIC QUARTERS (OFFICER)	69	FA
5169	R-3			
5201-	L-9	RENTAL HOUSING (NAMAR)(ENLISTED)	280	FA
5242				
5301-	K-10/11/12	PUBLIC QUARTERS (ENLISTED)	364	FA
5520	L-10/11/12	INC. GARAGES		
5521-	I-11/12	PUBLIC QUARTERS (OFFICER)	192	FA
5762	J-10/11/12			
	K-10/11	INC. GARAGES		

NOTE: 1. BUILDING NOS. FOLLOWED BY AN ASTERISK - THUS* - ARE MULTIPLE CATEGORY USE BUILDINGS.

2. UNLESS OTHERWISE SHOWN THE PLANNED USE OF EXISTING BUILDINGS AND/OR STRUCTURES IS THE SAME AS THE CURRENT USE.

COMPILED BY
H. M. Allister
 H. M. ALLISTER 31 JULY 1973

APPROVED BY
W. Selindh
 W. SELINDH

MCAS EL TORO
 SANTA ANA, CALIFORNIA
 GENERAL DEVELOPMENT MAP
 INDEX OF STRUCTURES
 EXISTING & PLANNED PRE-M DAY

P.W. DWG.

S-2010A-
 0-3062

1973 INDEX OF STRUCTURES

1973

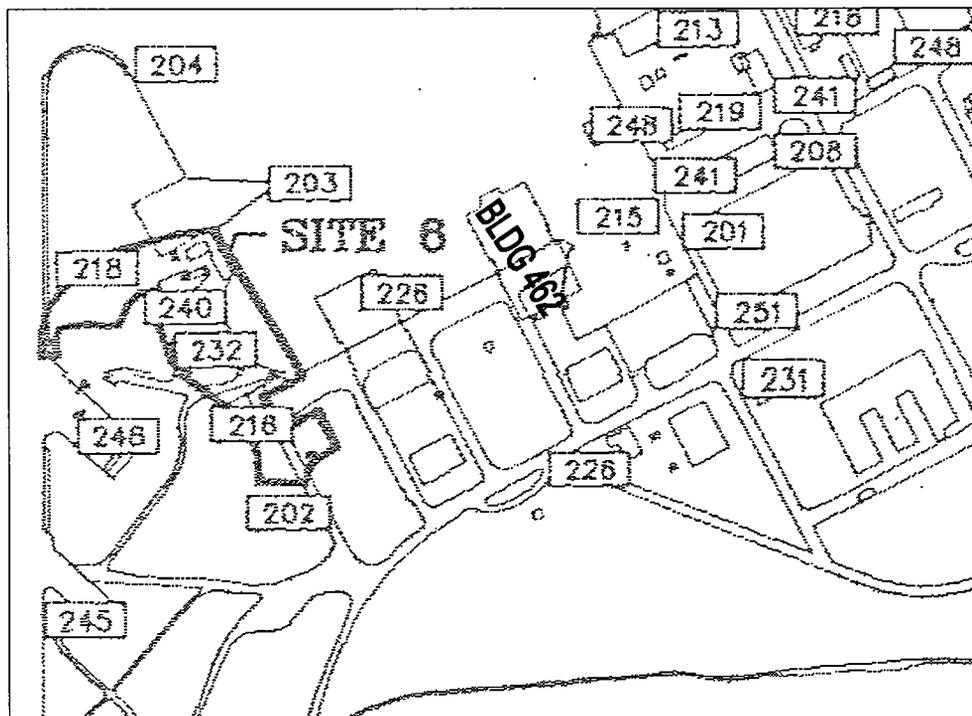
2-17

428	O-3	PLAYING COURT - HANDBALL & BSKTBALL	5	EA
429	N-3	PLAYING COURT - BASKETBALL	1	EA
430	P-3	PLAYING COURT - TENNIS	1	EA
431	J-14	OBSTRUCTION LIGHT	1	EA
432	M-4	FOOTBALL FIELD & TRACK	1	EA
433	O-6	EXPEDITIONARY AIR CONTROL SITE	1	EA
434	O-4	PLAYING COURT - VOLLEYBALL	2	EA
435	S-7	AIRCRAFT FIRE/CRASH STATION	8,030	SF
439	P-2	DISPENSARY (70103)	62,743	SF
439*		DENTAL CLINIC	18	OU
440	O-12	MISSILE MAGAZINE	930	SF
441	O-12	MISSILE MAINTENANCE SHOP	1,500	SF
442	P-12	MISSILE MAINT. EQUIPMENT SHOP	6,220	SF
443	O-2	APPLIED INSTRUCTION BLDG (31206)	7,840	SF
443*		ACADEMIC INSTRUCTION BLDG	23,366	SF
445	U-9	ENGINE TEST CELL	2,715	SF
446	U-9	STORAGE TANK, NONPOTABLE	25,000	GA
447	Q-11	ENGINE TEST CELL	2,715	SF
448	Q-11	STORAGE TANK, NONPOTABLE	25,000	GA
449	N-1	BEQ	216	MN
450	N-2	BEQ	216	MN
451	N-2	BEQ	216	MN
452	N-2	BEQ	216	MN
453	R-11	ADMINISTRATIVE OFFICE	5,040	SF
454	R-11	ADMINISTRATIVE OFFICE	5,040	SF
455	Q-12	ADMINISTRATIVE OFFICE	3,963	SF
456	Q-12	STORAGE, MARINE CORBS	70,163	SF
457	Q-12	ADMINISTRATIVE OFFICE	25,000	SF
458	R-11	HAZARDOUS & FLAMMABLE STORAGE	2,000	SF
459	Q-13	RESERVOIR - NONPOTABLE	1	MG
460	Q-13	PUMPING STATION, NONPOTABLE	2,304	KG
461	R-11	MAINT. HANGAR OHS (HIGH BAY)(15519)	9,760	SF
461*		MAINT. HANGAR OIS (CREW/EQUIP)	5,759	SF
462	R-11	MAINT. HANGAR OHS (HIGH BAY)(15519)	9,760	SF
462*		MAINT. HANGAR OIS (ADMIN)	5,759	SF
463	Q-11	MAINT. HANGAR OHS (HIGH BAY)(15519)	9,760	SF
463*		MAINT. HANGAR OIS (CREW/EQUIP)	5,759	SF
464	S-13	GOLF COURSE CLUBHOUSE	8,748	SF
469	P-12	SENTRY HOUSE	69	SF
470	S-4	COMMISSARY STORAGE	192	SF
471	P-4	COMBAT TRAINING POOL	1	EA
472	P-4	OUTDOOR SWIM. POOL, INSTAL. WADING	1	EA
475	O-3	GENERAL WAREHOUSE	192	SF
476	O-3	GARBAGE HOUSE	192	SF
477	O-3	GARBAGE HOUSE	192	SF
478	N-3	PAVEMENT/GROUNDS EQUIPMENT SHED	192	SF
479	N-3	GENERAL WAREHOUSE	192	SF
493	U-6	GENERAL WAREHOUSE	360	SF
496	U-6	SEWAGE SHELTER	480	SF
500	U-6	SEWAGE TREATMENT BLDG	270	SF
518	R-3	GARBAGE HOUSE	192	SF
519	S-3	OUTDOOR SWIM. POOL, OFFICERS	1	EA
520	S-3	OUTDOOR SWIM. POOL, OFFICERS, WADING	1	EA
521	P-3	GARBAGE HOUSE	1,152	SF
523	O-4	EXCHANGE INSTALLATION WAREHOUSE	192	SF
524	N-3	GENERAL WAREHOUSE	192	SF
525	N-4	GENERAL WAREHOUSE	192	SF
526	N-4	HEATING PLANT/FOSSEL FUEL 750 TO 3500BH	1	MB
527	N-4	EXCHANGE INSTALLATION WAREHOUSE	192	SF
529	U-6	STEAM PLANT, NONNUCLEAR	10.4	MB
530	T-6	STORAGE TANK, GND LEVEL, POTABLE	10,000	GA
534	U-6	HAZARDOUS & FLAMMABLE STORAGE	800	SF

71
71

72

**Aerial Photograph Anomalies Identified by USEPA near Building 462
Former Marine Corps Air Station, El Toro**
(Source: Final Report, Aerial Photograph Assessment, MCAS El Toro, SAIC 1993 (Plate 1))
Note: Building 462 is identified as BLDG 462.



USEPA Anomaly 248 is located in the vicinity of Former TAA 462. USEPA Anomaly 248 is described as a STAIN on a photograph taken in 1991.

Comment by the writer of the Summary Report: During the visual inspection of Former TAA 462 and vicinity in early September 2002, no stains were observed on the aircraft parking apron near Former TAA 462 or at Former TAA 462. It is possible that wash water from periodic aircraft washing operations may have caused the appearance of a stain on the 1991 photograph. The anomaly is located on the aircraft parking apron in an area with aircraft tie-down anchors. Wash water would flow toward the trench drain along Building 462. The surface drainage channels were investigated as IRP Site 25, and no further action status was achieved for IRP Site 25 in September 1997. No significant stains or discolored areas were observed in the USEPA 248 vicinity during the visual inspections of September 2002.

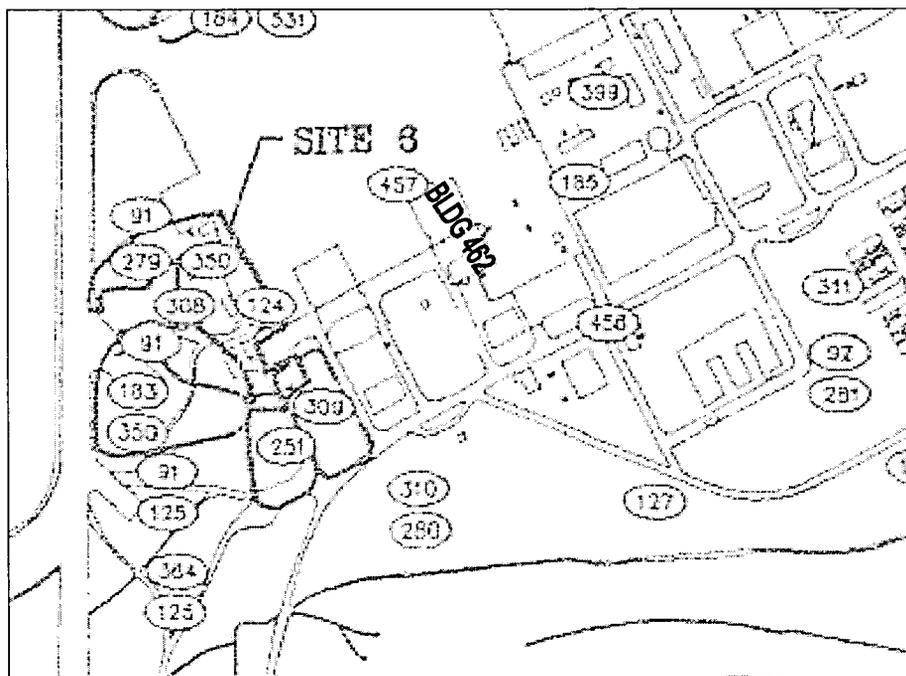
USEPA Anomaly 215 is located south of former TAA 462. USEPA Anomaly 215 is described as a STAIN on a 1965 photograph and PROBABLE DRUM, STAIN on a 1970 photograph.

Comment by the writer of the Summary Report: During the visual inspection of Former TAA 462 and vicinity in early September 2002, no stains or drums were observed on the aircraft parking apron near Former TAA 462 or at Former TAA 462. It is possible that wash water from periodic aircraft washing operations may have caused the appearance of a stain on the 1965 and 1970 photographs. It is possible that drums were stored near or at the location of Former TAA 462 when the 1970 photograph was taken. The area of USEPA 215 was inspected during the visual inspections of September 2002 and no significant stains or discolored areas were observed.

Aerial Photograph Anomalies Identified by SAIC near Building 462 Former Marine Corps Air Station, El Toro

(Source: Final Report, Aerial Photograph Assessment, MCAS El Toro, SAIC 1993 (Plate 2))

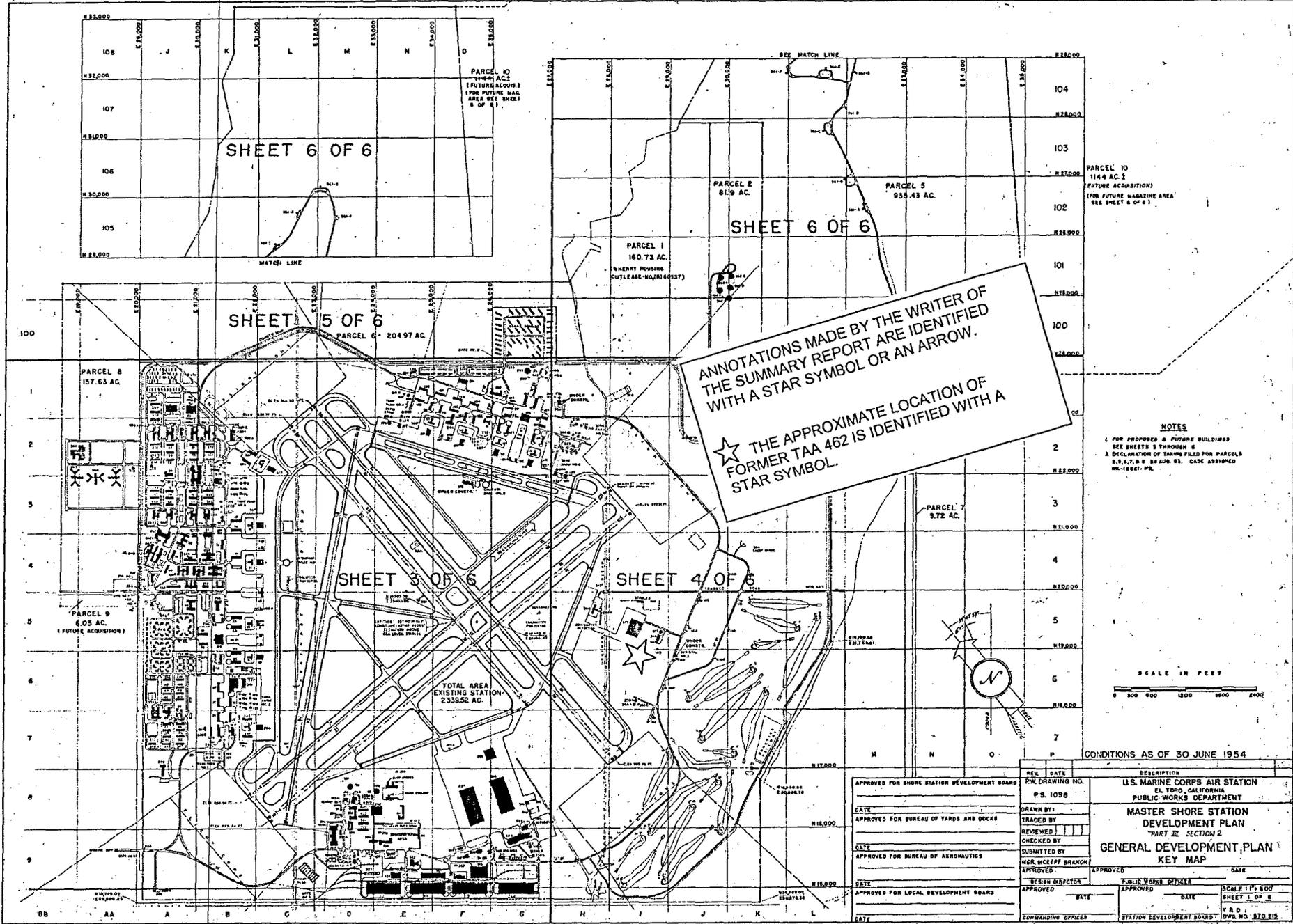
Note: Building 462 is identified as BLDG 462.



SAIC Anomaly 457 is located near the northwestern end of Building 462 and the anomaly was identified on a photograph taken on 2 April 1983. SAIC Anomaly 457 is described as follows: "A southwesterly flow of liquid (LQ) can be seen between Buildings 461 and 462. The liquid appears to be wash or rinse water associated with an aircraft near the hangar. Additional investigation may be advisable if aircraft are typically washed in this area."

Comment by the writer of the Summary Report: An aircraft wash area is located near the northern side of IRP Site 6 (adjacent to the Anomaly 91 callout), northwest of Buildings 461 and 462, and this wash area was investigated as Solid Waste Management Unit (SWMU) 204 during the Resource Conservation and Recovery Act Facility Assessment (RFA). The investigation of conditions at SWMU 204 is in progress as of early September 2002.

There are tie-down anchors for aircraft located on the apron adjacent to the northwestern sides of Buildings 461 and 462. It is possible that aircraft were periodically washed on the apron near the northwestern sides of Buildings 461 and 462, and wash water would flow toward the drains along the northeastern sides of Buildings 461 and 462. The surface drainage channels were investigated as IRP Site 25, and no further action status was achieved for IRP Site 25 in September 1997. No significant stains or discolored areas were observed in the SAIC 457 vicinity during the visual inspections of September 2002.



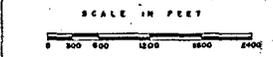
ANNOTATIONS MADE BY THE WRITER OF THE SUMMARY REPORT ARE IDENTIFIED WITH A STAR SYMBOL OR AN ARROW.

★ THE APPROXIMATE LOCATION OF FORMER TAA 462 IS IDENTIFIED WITH A STAR SYMBOL.

NOTES

1. FOR PROPOSED & FUTURE BUILDINGS SEE SHEETS 3 THROUGH 6

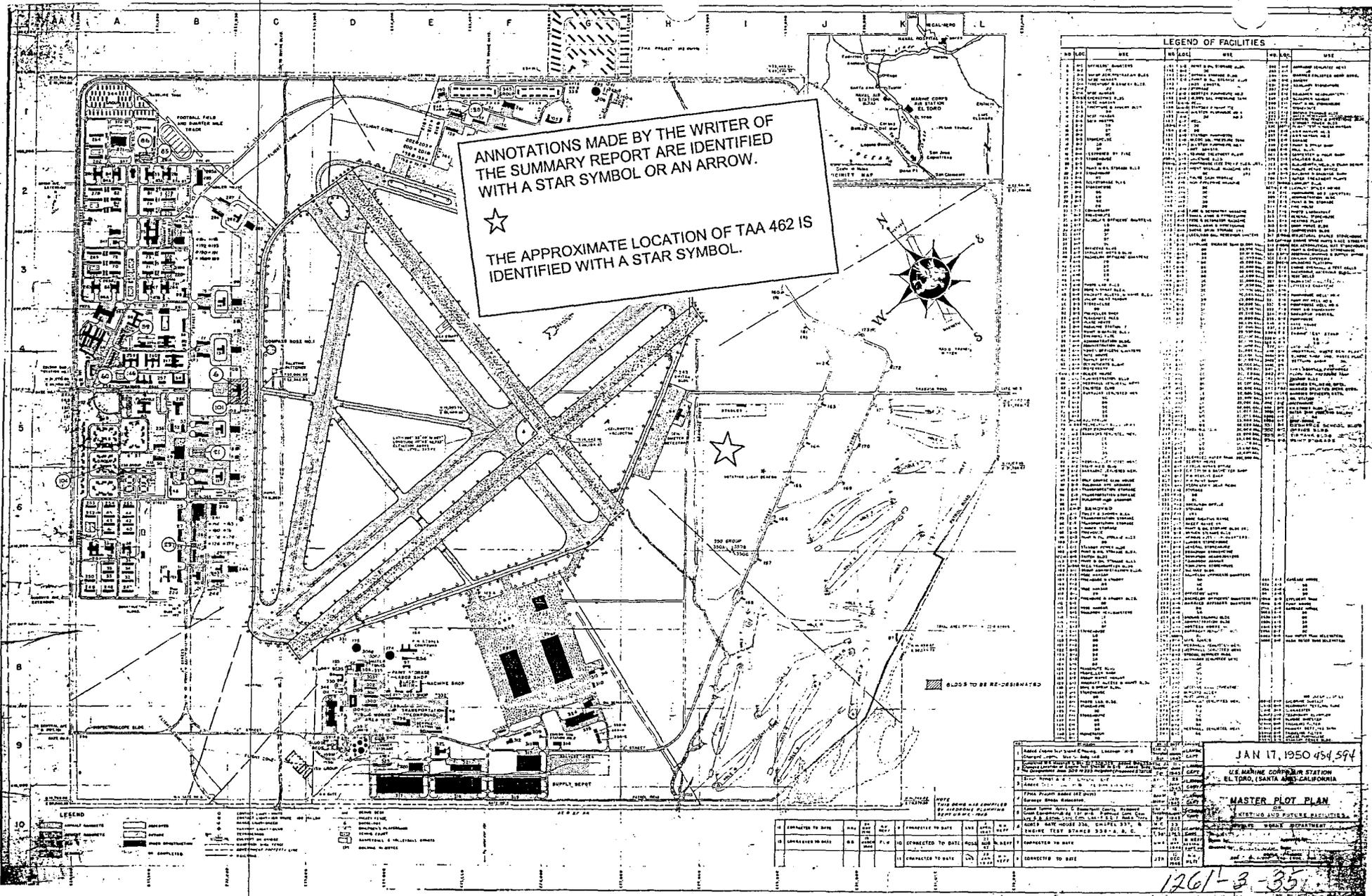
2. DECLARATION OF TAKING FILED FOR PARCELS 1, 2, 5, 6 & 9 BEARS 61. CASE ASSIGNED ME-16621-PR.



CONDITIONS AS OF 30 JUNE 1954

REC. DATE P.W. DRAWING NO. R.S. 1098 DATE APPROVED FOR BUREAU OF YARDS AND DOCKS DATE APPROVED FOR BUREAU OF AERONAUTICS DATE APPROVED FOR LOCAL DEVELOPMENT BOARD DATE	DESCRIPTION U.S. MARINE CORPS AIR STATION EL TORO, CALIFORNIA PUBLIC WORKS DEPARTMENT MASTER SHORE STATION DEVELOPMENT PLAN PART II SECTION 2 GENERAL DEVELOPMENT PLAN KEY MAP	DATE APPROVED DATE DATE APPROVED DATE DATE APPROVED DATE	PUBLIC WORKS OFFICER APPROVED DATE DATE APPROVED DATE DATE APPROVED DATE	SCALE 1 1/4" = 500' SHEET 1 OF 6 P & D DWG. NO. 870.815
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1954 Facility Map



ANNOTATIONS MADE BY THE WRITER OF
 THE SUMMARY REPORT ARE IDENTIFIED
 WITH A STAR SYMBOL OR AN ARROW.
 ☆
 THE APPROXIMATE LOCATION OF TAA 462 IS
 IDENTIFIED WITH A STAR SYMBOL.

LEGEND OF FACILITIES					
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JAN 17, 1950 454 594
 U.S. NAVAL AIR STATION
 EL TORO, (SANTA ANA), CALIFORNIA
MASTER PLOT PLAN
 EXISTING AND FUTURE FACILITIES
 U.S. NAVAL AIR STATION
 EL TORO, CALIFORNIA

1950 Facility Map

1261-3-35

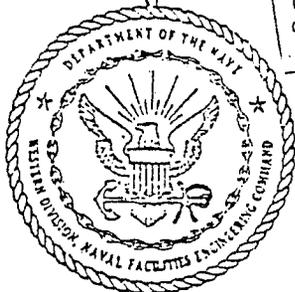
Extracts from Historical Hazardous Waste Management Documents

From Volume IV
RFA (JEG 1993)

Annotations made by the writer of the Summary Report are identified with a star symbol or an arrow.

★
The 1978 document was taken from the Appendix of Volume IV of the RFA Report (JEG 1993).

EXTRACTS



SURVEY OF INDUSTRIAL/OILY WASTE DISCHARGES
TO STORM AND SANITARY SYSTEMS

MARINE CORPS AIR STATION, EL TORO

FINAL REPORT — ESR NO. 404101P

10 MAY 1978

CODE 114H
SAN DIEGO SECTION, ENVIRONMENTAL BRANCH
DEPARTMENT OF THE NAVY
WESTERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
SAN BRUNO, CALIFORNIA 94066

OILY WASTE INVENTORY

MAP REFERENCE	POINT OF GENERATION	FLOW	COMPOSITION	POINT OF DISPOSAL	REMARKS
1.	PUBLIC WORKS SHOP (BLDG. 370) WATER WALL PAINT SPRAY BOOTH	VARIES - MAXIMUM BLEED-OFF 2GPM	WASTE WATER CONTAINING SMALL AMOUNT OF PAINT	STORM SEWER*	NOT PRESENTLY IN OPERATION
2.	NORTH OF VEHICLE MAINTENANCE SHOP (BLDG. 1589), VEHICLE WASHING AREA	VARIES - 10GPM MAX	WASTE WATER CONTAINING OILS, GREASES, DETERGENTS	STORM SEWER	
3.	NORTH OF CONSTRUCTION EQUIPMENT SHOP (BLDG. 386), STEAM CLEANING AREA	VARIES - 2-5GPM MAX	WASTE WATER CONTAINING OILS, GREASES, DETERGENTS	STORM SEWER*	
4.	SOUTH OF VEHICLE MAINTENANCE SHOP (BLDG. 298), STEAM CLEANING AREA	VARIES - 2-5GPM MAX	WASTE WATER CONTAINING OILS, GREASES, DETERGENTS	STORM SEWER VIA GREASE TRAP	
5.	SOUTHEAST CORNER, PUBLIC WORKS COMPOUND, VEHICLE WASHING AREA	VARIES - 10GPM MAX	WASTE WATER CONTAINING OILS, GREASES, DETERGENTS	STORM SEWER VIA GREASE TRAP	GREASE TRAP PUMPED ONCE A MONTH
6.	EAST OF STORAGE BUILDING (BLDG. 359), STEAM CLEANING AREA	VARIES - 2-3GPM MAX	WASTE WATER CONTAINING OILS, GREASES, DETERGENTS	STORM SEWER	
7.	EAST END OF STORAGE BUILDING (BLDG. 359), DEGREASING AREA	300 GALLON TANK	CONCENTRATED STANDARD SOLVENT	STORM SEWER	BATCH DUMPED AS REQUIRED
8.	EAST END OF STORAGE BUILDING (BLDG. 359), DEGREASING AREA	400 GALLON TANK	TRICHLOROETHYLENE	STORM SEWER	NOT IN OPERATION AT TIME OF SURVEY
9.	SOUTH OF VEHICLE MAINTENANCE SHOP (BLDG. 388), VEHICLE WASHING AREA	VARIES - 10GPM MAX	WASTE WATER CONTAINING OILS, GREASES, DETERGENTS	STORM SEWER	
10.	NORTH OF VEHICLE MAINTENANCE SHOP (BLDG. 655), VEHICLE WASHING AREA	VARIES - 10GPM MAX	WASTE WATER CONTAINING OILS, GREASES, DETERGENTS	STORM SEWER	
11.	EAST OF AIRCRAFT HANGAR (BLDG. 297), AIRCRAFT WASHING AREA	VARIES, 20GPM MAX	WASTE WATER CONTAINING OILS; GREASES, AND DETERGENTS	STORM SEWER VIA SAND TRAP	APPROXIMATELY ONE AIRCRAFT WASHED EVERY DAY

C-25

C-26

SOURCE	POINT OF GENERATION	FLOW	COMPOSITION	POINT OF DISPOSAL	REMARKS
	EAST OF AIRCRAFT HANGAR (BLDG. 295), AIRCRAFT WASHING AREA	VARIES - 20GPM MAX	WASTE WATER CONTAINING OILS, GREASES, AND DETERGENTS	STORM SEWER VIA SAND TRAP	APPROXIMATELY ONE AIRCRAFT WASHED EVERY DAY
1.	REFUELING VEHICLE MAINTENANCE FACILITY (BLDG. 672), VEHICLE FUEL TANK CLEANING AREA	4-5 5,000 GALLON FUEL TANKS CLEANED PER MONTH	WASTE WATER CONTAINING SMALL AMOUNTS OF JP-5, JP-4, OR AVIATION GASOLINE	STORM SEWER VIA OIL/WATER SEPARATOR*	OIL/WATER SEPARATOR IS WASHED OUT EVERY TIME A 5,000 GALLON TANK IS EMPTIED
	SOUTH OF VEHICLE MAINTENANCE SHOP (BLDG. 390), VEHICLE WASHING AREA	VARIES - 10GPM MAX	WASTE WATER CONTAINING OILS, GREASES, AND SOLVENTS	STORM SEWER	
3.	SOUTH OF GROUND SUPPORT VEHICLE SHOP (BLDG. 673), GROUND SUPPORT EQUIPMENT WASHING AREA	VARIES - 10GPM MAX	WASTE WATER CONTAINING OILS, GREASES, AND SOLVENTS	SANITARY SEWER VIA GREASE TRAP	
5.	AIRCRAFT WASHING AREA SOUTH-WEST OF BLDG. 461	VARIES - 20GPM MAX	WASTE WATER CONTAINING OILS, GREASES, AND SOLVENTS	STORM SEWER	APPROXIMATELY ONE AIRCRAFT WASHED PER DAY
7.	AIRCRAFT WASHING AREA NORTH OF BLDG. 463	VARIES - 20GPM MAX	WASTE WATER CONTAINING OILS, GREASES, AND SOLVENTS	STORM SEWER VIA GREASE TRAP	GREASE TRAP IS PUMPED ONCE A MONTH
8.	JET ENGINE TEST CELL (BLDG. 447), FLOOR DRAINS	VARIES	WASTE WATER CONTAINING SMALL AMOUNTS OF JP-5	STORM SEWER*	
9.	EAST OF VEHICLE MAINTENANCE SHOP (BLDG. 392), VEHICLE WASHING AREA	VARIES - 10GPM MAX	WASTE WATER CONTAINING OILS, GREASES, AND DETERGENTS	STORM SEWER	
0.	CORROSION CONTROL HANGAR (BLDG. 130), WATER WALL PAINT SPRAY BOOTH	VARIES - MAX BLEEDOFF 2-3GPM	WASTE WATER CONTAINING SMALL AMOUNT OF PAINT	STORM SEWER*	NOT PRESENTLY IN OPERATION
11.	EAST OF GROUND SUPPORT VEHICLE SHOP (BLDG. 127), GROUND SUPPORT EQUIPMENT WASHING AREA	VARIES - 10GPM MAX	WASTE WATER CONTAINING OILS, GREASES, AND DETERGENTS	STORM SEWER VIA GREASE TRAP	GREASE TRAP PUMPED ONCE A MONTH
12.	JET ENGINE TEST CELL (BLDG. 658), FLOOR DRAINS	VARIES	WASTE WATER CONTAINING SMALL AMOUNTS OF JP-5	STORM SEWER VIA GREASE TRAP*	GREASE TRAP PUMPED ONCE A MONTH

MAP REFERENCE	POINT OF GENERATION	FLOW	COMPOSITION	POINT OF DISPOSAL	REMARKS
23.	AIRCRAFT WASHING AREAS SOUTH OF BLDG. 114	VARIES - 20GPM MAX	WASTE WATER CONTAINING OIL, GREASE, AND DETERGENT	STORM SEWER VIA GREASE TRAP	GREASE TRAP PUMPED ONCE A MONTH
24.	FIXED AIRCRAFT START SYSTEM (BLDG. 643), COMPRESSOR BLEEDOFF	APPROXIMATELY 2GPM	WASTE OIL AND GREASES	STORM SEWER VIA OIL/WATER SEPARATOR	
25.	AIRCRAFT WASHING AREA SOUTH OF BLDG. 606	VARIES - 20GPM MAX	WASTE WATER CONTAINING OIL, GREASE, AND DETERGENTS	STORM SEWER VIA GREASE TRAP	GREASE TRAP PUMPED ONCE A MONTH
26.	AIRCRAFT WASHING AREA SOUTH OF BLDG. 605	VARIES - 20GPM MAX	WASTE WATER CONTAINING OIL, GREASE, AND DETERGENTS	STORM SEWER VIA GREASE TRAP	
27.	SOUTH OF VEHICLE MAINTENANCE SHOP (BLDG. 31), VEHICLE WASHING AREA	VARIES - 10GPM MAX	WASTE WATER CONTAINING OIL, GREASE, AND DETERGENTS	OPEN DRAINAGE DITCH	
28.	SOUTH OF VEHICLE MAINTENANCE SHOP (BLDG. 10), HEAVY EQUIPMENT WASHING AREA	VARIES - 10GPM MAX	WASTE WATER CONTAINING SAND AND MUD	STORM SEWER VIA SAND TRAP	
29.	NORTH OF VEHICLE MAINTENANCE SHOP (BLDG. 5), STEAM CLEANING AND WASHING AREA	VARIES - 10GPM MAX	WASTE WATER CONTAINING OILS, GREASES, AND DETERGENTS	STORM SEWER	
30.	SOUTH OF EXCHANGE AUTO REPAIR SHOP (BLDG. 651), STEAM CLEANING AND WASHING AREA	VARIES - 10GPM MAX	WASTE WATER CONTAINING OILS AND GREASE	SANITARY SEWER VIA OIL/WATER SEPARATOR	
31.	NORTH OF VEHICLE HOBBY SHOP (BLDG. 626), STEAM CLEANING AREA	VARIES - 2GPM MAX	WASTE WATER CONTAINING OILS AND GREASES	SEEPAGE PIT WHICH OVERFLOWS TO DRAINAGE DITCH	
32.	EXCHANGE CAR WASH (BLDG. 1702)	VARIES - 10GPM MAX	WASTE WATER CONTAINING OIL, GREASE, AND DETERGENTS	STORM SEWER VIA GREASE TRAP	NOT PRESENTLY IN OPERATION; MAY BE MOVED IN THE NEAR FUTURE

*From a review of the existing utility drawings, the exact point of discharge cannot be determined for these facilities. It is assumed, however, that a majority of discharges are to the storm sewer system.

SURVEY OF AIR EMISSION SOURCES
 . AT MCAS EL TORO

Bldg. No.	Qty.	Source and Description	Permit to Operate Required
300	3	Solvent dip tanks - 9 sq. ft. each, non-agitated	
	1	Paint spray booth	
	1	Bake oven - 18 cu. ft.	
370	1	Paint spray booth - nonuse	
306	1	Solvent spray tank - 7 sq. ft., agitated	X
1601	3	Paint striping machines - greater than 1 gallon/day	X
299	1	Automotive-type paint spray booth - nonuse	
298	3	Portable oil-fired steam cleaners	
	1	Gasoline storage tanks and dispensers	X
297	3	Parts cleaning tanks - 6 sq. ft. each, non-agitated	
388	1	Parts cleaning tank - 6 sq. ft., non-agitated	
	1	Automotive-type paint spray booth - nonuse	
	1	Gasoline storage tank and dispensers	X
655	1	Parts cleaning tank - 6 sq. ft., non-agitated	
	1	Parts cleaning tank - 12 sq. ft.	X
	1	Parts cleaning tank - 50 sq. ft.	X
326	1	Paint spray room - less than 1 gallon/day	
296	1	Parts cleaning tank - 4 sq. ft.	
	2	Vacublast portable recycling units	
	1	Hevi-Duty furnace - nonuse	
	1	Despatch oven - machine parts assembly	
	1	Salt bath furnace - nonuse	
295		Hangar - aircraft touch-up painting and cleaning	
315	1	Abrasive blast cabinet - 5' x 4' x 3' with baghouse	X
	1	Dry-out oven - electric	
390	1	Paint spray room - nonuse	
	1	Gasoline storage tank and dispenser	
673	1	Paint spray room - dry filters exhaust - 18	
	1	Vacublast cabinet - nonuse	
	2	Parts dip tanks - 2' x 1 1/2' x 3' DP outside	

<u>Bldg. No.</u>	<u>Qty.</u>	<u>Source and Description</u>	<u>Permit to Operate Required</u>
458		Paint building - nonuse, storage	
461		Hangar - aircraft touch-up painting and cleaning	
→ 462		Hangar - nonuse	
456		Supply warehouse	
463		Hangar - aircraft touch-up painting and cleaning	
359	1	Steam cleaner - portable	
	1	Parts dip tank - 3' x 6' x 4' DP	X
	1	Vapor degreaser - 4' x 6' x 8' DP	X
392	2	Parts dip tanks - agitated, 2' x 1 1/2' x 2 1/2' DP	X
	1	Gasoline storage tank and dispensers	
130	1	Paint spray room - nonuse, scheduled for repair Outdoor paint area - 7 gallons/day, spray equipment	X
634	1	Furnace - aluminum hardening	
	1	Paint spray room - 1/2 gallons/day	
	1	Abrasive blast cabinet - 4' x 3' x 2 1/2' with collector	
	1	Abrasive blast cabinet - nonuse	
114		Hangar - aircraft touch-up painting and cleaning	
115		Hangar - aircraft touch-up painting and cleaning	
643		Air compressors for aircraft start system	
606		Hangar - aircraft touch-up painting and cleaning	
605		Hangar - aircraft touch-up painting and cleaning	
10		Outdoor paint area - 1-2 gallons/day, spray equipment	X
5	1	Parts dip tank - agitated, 2' x 4' x 3' DP	X
	1	Portable steam cleaner	
651	1	Parts dip tank - 3' x 1 1/2' x 3' DP, unagitated	
	2	Parts dip tanks - 2' x 1 1/2' x 1 1/2' DP, unagitated	
	1	Exchange service station storage tanks Dispensers with Stage I and Stage II vapor recovery system	X
626	2	Parts dip tanks - 2' x 1 1/2' x 1' DP	
	2	Parts dip tanks - 4' x 2' x 1 1/2' DP	
	1	Parts dip tank - 2 1/2' x 2' x 1' DP	

<u>Bldg. No.</u>	<u>Qty.</u>	<u>Source and Description</u>	<u>Permit to Operate Required</u>
1795	1	Parts dip tank - 2' x 1 1/2' x 1' DP	
	1	Portable steam cleaner	
51	1	Parts dip tank - 2 1/2' x 1 1/2' x 3' DP	
	1	Paint spray room - 1-2 gallons/day, spray equipment	X
47	1	Paint spray room - nonuse	
240	1	Flying club storage tanks and dispenser with Stage I vapor recovery system	X
553	1	10,000 gallon unleaded gasoline storage tank	X

TITLE: OIL & HAZARDOUS SUBSTANCE SPILL
PREVENTION, CONTROL &
COUNTERMEASURE FIELD SURVEY
REPORT & SPCC PLAN

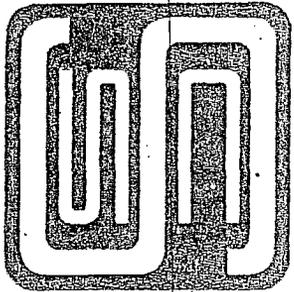
AUTHOR: SCS ENGINEERS

DATE: 11/01/79

CATEGORY: 1.2

DUPLICATE

EXTRACTS



SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.

OIL AND HAZARDOUS SUBSTANCE
SPILL PREVENTION, CONTROL,
AND COUNTERMEASURE
FIELD SURVEY REPORT AND SPCC PLAN
FOR THE
MARINE CORPS AIR STATION
EL TORO, CALIFORNIA

Prepared for

DEPARTMENT OF THE NAVY
WESTERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
SAN DIEGO, CALIFORNIA 92132

Prepared by

SCS ENGINEERS
4014 Long Beach Boulevard
Long Beach, California 90807
(213) 426-9544

CONTRACT NO. N62474-78-C-0776

NOVEMBER 1979

SPPC
Key Map
Quadrant

Activity Description

Item Stored
or Handled

Spill or
Discharge*

Path to Waterway

Potential
Impact

Improvements
Required

Corrective Measures-
Improvements (see notes)

Aircraft Maintenance Hangers

85

H-7	Aircraft Maintenance Hanger #605	JP-5, Lube oil	S2	SW to storm sewers in apron to Aqua Chinon Wash	Minor	Yes	(9)
H-8	Aircraft Maintenance Hanger #606	JP-5, Lube oil	S2	SW to storm sewers in apron to Aqua Chinon Wash	Minor	Yes	(9)
H-9	Aircraft Maintenance Hanger #114	JP-5, Lube oil	S2	SW to storm sewers in apron to Aqua Chinon Wash	Minor	Yes	(9)
H-9	Aircraft Maintenance Hanger #115	JP-5, Lube oil	S2	SW to storm sewers in apron to Aqua Chinon Wash	Minor	Yes	(9)
Q-11	Aircraft Maintenance Hanger #371	JP-5, Lube oil	S2	Variable to interior grated trench drains to Aqua Chinon Wash	Minor	Yes	(9)
Q-11	Aircraft Maintenance Hanger #463	JP-5, Lube oil	S2	Variable to exterior grated trench drains to Aqua Chinon Wash	Minor	Yes	(9)
R-11	Aircraft Maintenance Hanger #461	JP-5, Lube oil	S2	Variable to exterior grated trench drains to Aqua Chinon Wash	Minor	Yes	(9)
R-11	Aircraft Maintenance Hanger #462	JP-5, Lube oil	S2	Variable to exterior grated trench drains to Aqua Chinon Wash	Minor	Yes	(9)
S-8	Aircraft Maintenance Hanger #295	JP-5, Lube oil	S2	Variable to exterior grated trench drains to Aqua Chinon Wash	Minor	Yes	(9)
T-8	Aircraft Maintenance Hanger #297	JP-5, Lube oil	S2	Variable to exterior grated trench drains to Bee Canyon Wash	Minor	Yes	(9)
T-9	Aircraft Maintenance Hanger #296	JP-5, Lube oil	S2	Variable to exterior grated trench drains to Aqua Chinon Wash	Minor	Yes	(9)



PHOTO RECORD FILE INDEX

CLE-C01

McGooS

ROLL NO.

M60050.000924
MCAS EL TORO
SSIC # 5090.3

PERIOD FROM

19

PROJECT: CTD#193 RFA

PREPARED BY:

Annotations made by the writer of the Summary Report are identified with a star symbol or an arrow.

The list of photographs taken by DHS in 1980 does not include the vicinity of Building 462.

PICTURE NUMBER	PHOTO DESCRIPTION/LOCATION	DATE	DAILY LOG NUMBER
1	Storage Area View Change - North of Bldg. 360 Facing North	12/8/80	
2	Storage Area 5076 S.F. Available - North of Bldg 360 Facing East	12/8/80	
3	Storage Area 12'x30' 360sq.ft. - West of Bldg. 29	10/29/80	
4	Cash Crew Training Pit 50' Dia 1963sq.ft. - East of Bldg. 23A	10/28/80	
5	Storage Area 4'x30' 120sq.ft. - East of Bldg. 359	10/29/80	
6	Storage Area 2'x 10' 20sq.ft. - South of Bldg. 186	10/28/80	
7	Storage Area 172 sq. ft. - South of Bldg. 187	10/28/80	
8	Storage Area 15'x30' 450sq.ft. - West of Bldg. 297	10/29/80	
9	Storage Area 5'x10' 50sq.ft. - West of Bldg 297	10/29/80	
10	Storage Area 15'x 80' 120sq.ft. - East of Bldg 155	10/29/80	
11	Storage Area 12'x30' 360sq.ft. - East of Bldg 672	10/29/80	
12	Storage Area 14'x 20'/12'x6' 352sq.ft. - West of Bldg 297	10/29/80	
13	Storage Area 18'x 40' 720sq.ft. - West of Bldg 297	10/29/80	
14	Storage Area 4'x4' 16sq.ft. - West of Bldg 297	10/29/80	
15	Storage Area 5'x 10' 50sq.ft. - North of Bldg. 386	10/29/80	
16	Storage Area 25'x30' 600sq.ft. - West of Bldg 29	10/29/80	



PHOTO RECORD FILE INDEX

ROLL NO. _____

PERIOD FROM _____ TO _____ 19____

PROJECT: CTO*193 RFA

PROJECT NO. SCE 70022 MR

PREPARED BY: _____

PICTURE NUMBER	PHOTO DESCRIPTION/LOCATION	DATE	DAILY LOG NUMBER
17	Storage Area 5'x120' 600 sq. ft. - North of Bldg 673	10/29/80	
18	Storage Area 12'x20' 240 sq. ft. - East of Bldg 673	10/29/80	
19	Storage Area 20'x25' 500 sq. ft. - East of Bldg 673	10/29/80	
20	Storage Area 20'x20' 400 sq. ft. - East of Bldg 673	10/29/80	
21	Storage Area Containers - North of Bldg 60, East End of Stg Area	12/08/80	
22	Storage Area 12'x20' 240 sq. ft. - South of Bldg 10	10/29/80	
23	Storage Area 4'x14' 56 sq. ft. - Near Bldg 179	10/29/80	
24	Storage Area 15'x30' 450 sq. ft. - West of Bldg 137	10/29/80	
25	Storage Area 10'x30' 300 sq. ft. - West of Bldg 1519	10/29/80	
26	Storage Area 150'x300' 45,000 sq. ft. - North of Bldg 71F	10/29/80	
27	Storage Area 5'x5' 25 sq. ft. - South of Bldg 298	10/29/80	
28	Storage Area 10'x12' 120 sq. ft. - South of Bldg 298	10/29/80	
29	Storage Area 3'x20' 60 sq. ft. - West of Bldg 306	10/29/80	
30	Storage Area 12'x40' 480 sq. ft. - West of Bldg 390	10/29/80	

CLF-061-0000-AZ-0000

DUPLICATE

Environmental Quality Division
Naval Facilities Engineering Command
Alexandria, Virginia

EXTRACTS

Hazardous Materials/Hazardous Waste Engineering Study

February 1984

Hazardous Materials/Wastes Generation
Survey, Hazard Analysis and Storage
Facility Design Recommendations
Marine Corps Air Station
El Toro, California

TITLE: HAZARDOUS MATERIALS/HAZARDOUS
WASTE ENGINEERING STUDY

AUTHOR: ROY F. WESTON, INC.

DATE: 02/01/84

CATEGORY: 1.2



E-7

ANNOTATIONS MADE BY THE WRITER OF THE SUMMARY REPORT ARE IDENTIFIED WITH A STAR SYMBOL OR AN ARROW.

★ THE APPROXIMATE LOCATION OF FORMER TAA 462 IS IDENTIFIED WITH A STAR SYMBOL.

SITE 3

SITE 1

SITE 2

SITE 5

SITE 6

SITE 4

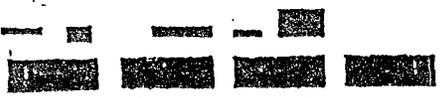
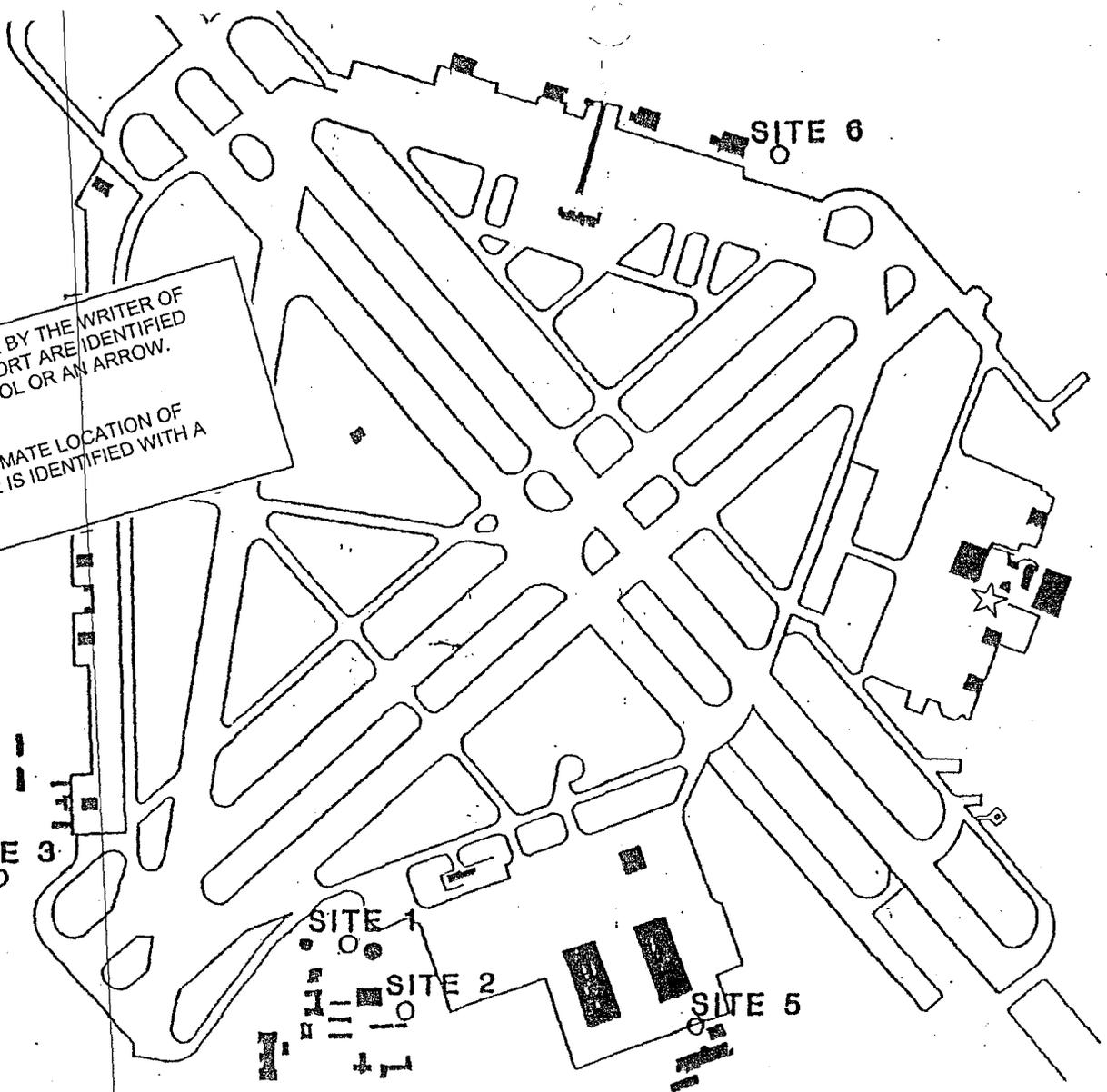


FIGURE E-1
EL TORO MCAS
HW STORAGE AREAS

SENSITIVE RECORD

PORTIONS OF THIS RECORD ARE CONSIDERED SENSITIVE
AND ARE NOT AVAILABLE FOR PUBLIC VIEWING

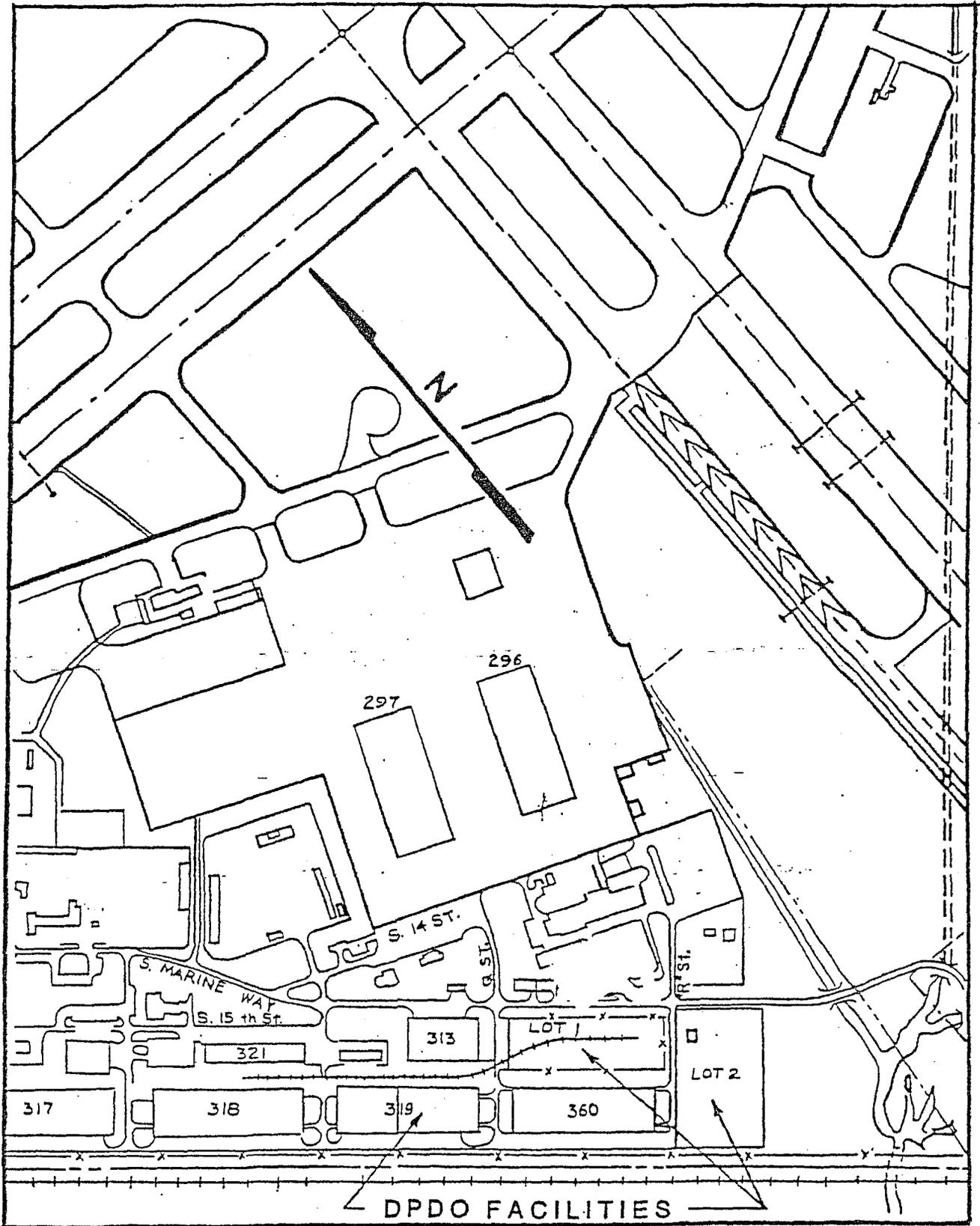
FIGURES E-2 AND E-3

FOR ADDITIONAL INFORMATION, CONTACT:

DIANE C. SILVA, RECORDS MANAGER
NAVAL FACILITIES ENGINEERING COMMAND, SOUTHWEST
1220 PACIFIC HIGHWAY
SAN DIEGO, CA 92132

TELEPHONE: (619) 556-1280
E-MAIL: diane.silva@navy.mil

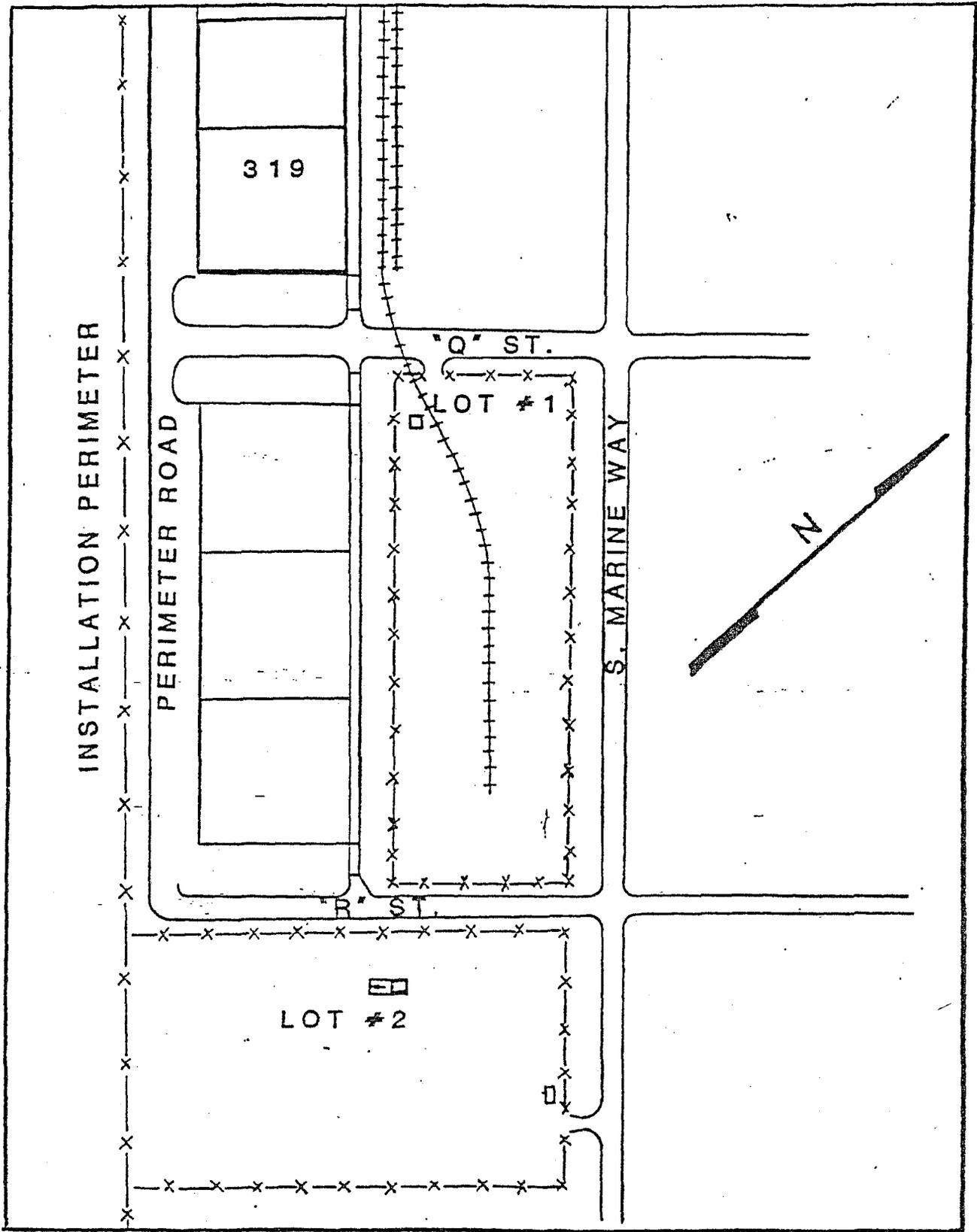
SENSITIVE



SCALE: 1" = 600'

FIGURE E-2
DPDO LOCATION SITE PLAN
EL TORO MCAS

SENSITIVE



SCALE: 1" = 200'

FIGURE E-3
EXISTING DPDO STORAGE FACILITIES
EL TORO MCAS

SENSITIVE

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SANTA ANA REGION
INDIANA AVENUE, SUITE 200
SIDE, CALIFORNIA 92505
PHONE: (714) 782-4130



Annotations made by the writer of the
Summary Report are identified with a
star symbol or an arrow.



The 1989 RWQCB letter does not identify
Building 462.

DATE

June 23, 1989

LTJG Michael Rehor, Environmental Di
MCAS El Toro (Code 1JG)
Santa Ana, CA 92709-5001

MCAS EL TORO - SITE INSPECTION PLAN OF ACTION

Dear LTJG Rehor:

As we discussed in our May 30, 1989 meeting, we are hereby transmitting our recommendations for additional sites at the El Toro Marine Corps Air Station (MCAS) which we believe should be included in the Site Inspection Plan of Action.

Although the Installation Restoration (IRP) program is intended to address only past facility operations, we believe that some currently operating facilities should be included in the IRP program. Past and current chemical use and disposal practices at these sites may have allowed contaminants to be discharged where they could impact water quality. We believe that it is appropriate to include these sites in the present phase of investigation. The sites listed are areas where trichloroethylene (TCE) is either known or suspected to have been used. Chemical use and disposal practices, documented in the November 1987 Oil and Hazardous Substance Spill Prevention Control and Countermeasure (SPCC) plan, strongly suggest that there are areas on the base where TCE was routinely discharged to bare ground and unlined channels.

Although some of these areas are located near sites that have already been selected for investigation, we believe that the sites require individual investigation to adequately evaluate the threat to water quality from past chemical use practices. In some cases adequate coverage may be provided by expanding the specific site investigations. However, in most cases separate site investigations will be necessary. Investigation of these sites should focus on potential discharge areas and any adjacent drainage channels. The following sites should be given highest priority:

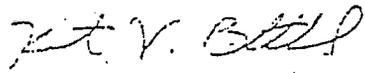
1. Building 359 - corrosion control facility, which housed 2 TCE degreasers.
2. Three engine test cells - the SPCC plan documents oily discharges from two of these test cells, located in buildings 658 and 447, that eventually entered storm drains. The location of the third test cell is not indicated.

3. Six drum storage areas - The SPCC plan depicts numerous drum storage areas on bare ground. The plan documents solvent storage in the following areas:
 - A. Northeast of building 392
 - B. Southeast of building 602
 - C. Between buildings 454 and 456
 - D. Northeast of building 320
 - E. Northeast of building 317
 - F. East of building 359
4. Hazardous and flammable materials storehouses 320 and 357.
5. Oil/water separators at Bee Canyon Wash and Agua Chinon Wash.

In addition, the SPCC plan identifies 23 wash areas including seven aircraft wash facilities. Each of these wash areas should be evaluated to determine whether solvents were used. If solvents were used at any wash area, that area should be included in the investigation.

Please submit a proposed sampling program for the sites discussed above in the form of an amendment to the Site Inspection Plan of Action. If you should have any questions, please call me or Steven Overman of our Pollutant Investigation Section.

Sincerely,


Kurt V. Berchtold
Supervising Engineer

cc: OCWD - Jim Reilly

TDP/mcaset2

ADDITIONAL SITES NEEDING INVESTIGATION

Tom D Peltier

Test Cells 658 and 447

DUPLICATE

Bldg. 626	Wash Rack
Bldg. 392	Wash Rack and Drum Storage Area
Bldg. 127	Wash Rack
Bldg. 673	Wash Rack and Drum Storage
Bldg. 390	Wash Rack
Bldg. 386	Steam Cleaning Area
Bldg. 298	Maintenance Shop
Bldg. 388	Wash Rack
Hanger 605	Aircraft Wash Area
Hanger 606	Aircraft Wash Area
Hanger 114	Aircraft Wash Area
Hanger 463	Aircraft Wash Area
Hanger 461	Aircraft Wash Area
Hanger 297	Aircraft Wash Area and Drum Storage
Bldg. 320	Trichloroethylene Drum Storage
Bldg. 357	Drum Storage
Bldg. 454/456	Drum Storage
Bldg. 317	Drum Storage
Bldg. 534	Drum Storage
Bldg. 655	Drum Storage
Bldg. 359	Drum Storage
Bldg. 130	Drum Storage
Bldg. 602	Drum Storage
Salvage Yard	Drum Storage

Annotations made by the writer of the Summary Report are identified with a star symbol or an arrow.
 The 1989 list does not identify Building 462.

TITLE: ADDITIONAL SITES NEEDING INVESTIGATION, POTENTIAL AREAS OF CONTAMINATION

AUTHOR: TOM D. PELTIER?

DATE: 4/17/89

CATEGORY: 1.2

OTHER POTENTIAL AREAS OF CONTAMINATION

Mag. 13 Paint Sheds
Auto Hobby Shop Leaking waste Oil Tank
Bldg. 103 Paint Shed
Heavy Equipment Vehicle Wash Area
Empty or Destroyed Buildings 143, 343, and 1789
Combat Ready Vehicle Storage and Wash Area
Bldgs. 359 & 651 Wash Areas
Bldg. 262 Wash Rack
Exchange Car Wash

Final

Marine Corps Air Station El Toro
Hazardous Material/Hazardous Waste
Management Plan

August 1994

Annotations made by the writer of the Summary
Report are identified with a star symbol or an
arrow.



Prepared for:

Southwest Division Naval Facilities Engineering Command
1220 Pacific Highway
San Diego, CA 92132-5190

Prepared by:

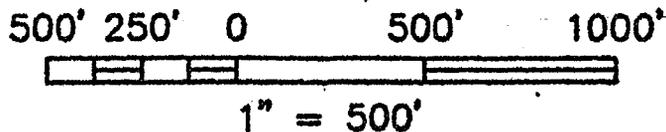
Science Applications International Corporation
Engineering Sciences Division
10260 Campus Point Drive
San Diego, CA 92121

Contract No. N68711-92-D-4658
Delivery Order No. 0004

MCAS El Toro
Santa Ana, California

HAZARDOUS WASTE ACCUMULATION POINTS AND HAZARDOUS MATERIAL STORAGE LOCATIONS

NOVEMBER 5, 1993



Science Applications
International Corporation
● An Employee-Owned Company

Hazardous Waste Accumulation Point Summary		
Unit	Bldg #	Coordinates
Aero Club	10	R5
Armory	744	O2
Auto Hobby Shop	626	M3
CSSD-14	388	U8
Environmental Above Ground Storage Tank	n/a	U6
FMD Shops, Bldg 1601	370	T6
Fuels Division	314	U9
H&HS 38	22	R4
MACG-38 MWCS 38	HGR 5	R4
MAG-46	51	O4
MAG-46 Fixed Wing	296	T9
MAG-46 Helo Mals-46	295	S8
MALS-11 Air Frames	130	M9
MALS-11 Avionics	856	Q12
MALS-11 Cryogenics (ALSS)	636	R12
MALS-11 GSE North	392	M9
MALS-11 Ordnance	673	P12
MALS-11 Power Plant	658	N10
MALS-11 Power Plant	634	N9
MALS-11 Supply	441	P12
Maytag Aircraft Corp	779	N10
MOD Team	115	N9
Motor Pool (G-4), Bldg 770	386	T7
MWHS-3	7	O5
MWR Auto #1	651	O2
MWR Golf Course	390	P13
MWSS-Utilities	31	S4
MWSS-373 HQ	800	U10
MWSS-373 Refuelers	671	U9
SOMS HQ	289	N5
SOMS Maintenance	HGR 2	O4
SOMS Recovery		
Supply	320	U7
VMFA (AW)-121	462	R11
VMFA (AW) 225	698	N9
VMFA (AW)-242	461	R11
VMFAT-101	371	Q10
VMFA-323	606	N8
VMGR-352	297	T8
VFMA-314	605	N7

REFUELER
PITS

ET-404

371

ENGINE TEST
CELL 447 A,B

ET-761



462

461

845

817

ET-

ANNOTATIONS MADE BY THE WRITER OF
THE SUMMARY REPORT ARE IDENTIFIED
WITH A STAR SYMBOL OR AN ARROW.
★ THE APPROXIMATE LOCATION OF
FORMER TAA 462 IS IDENTIFIED WITH A
STAR SYMBOL.

R

S

Final

Marine Corps Air Station El Toro
Hazardous Material/Hazardous Waste
Management Plan

August 1994

Appendices A - G



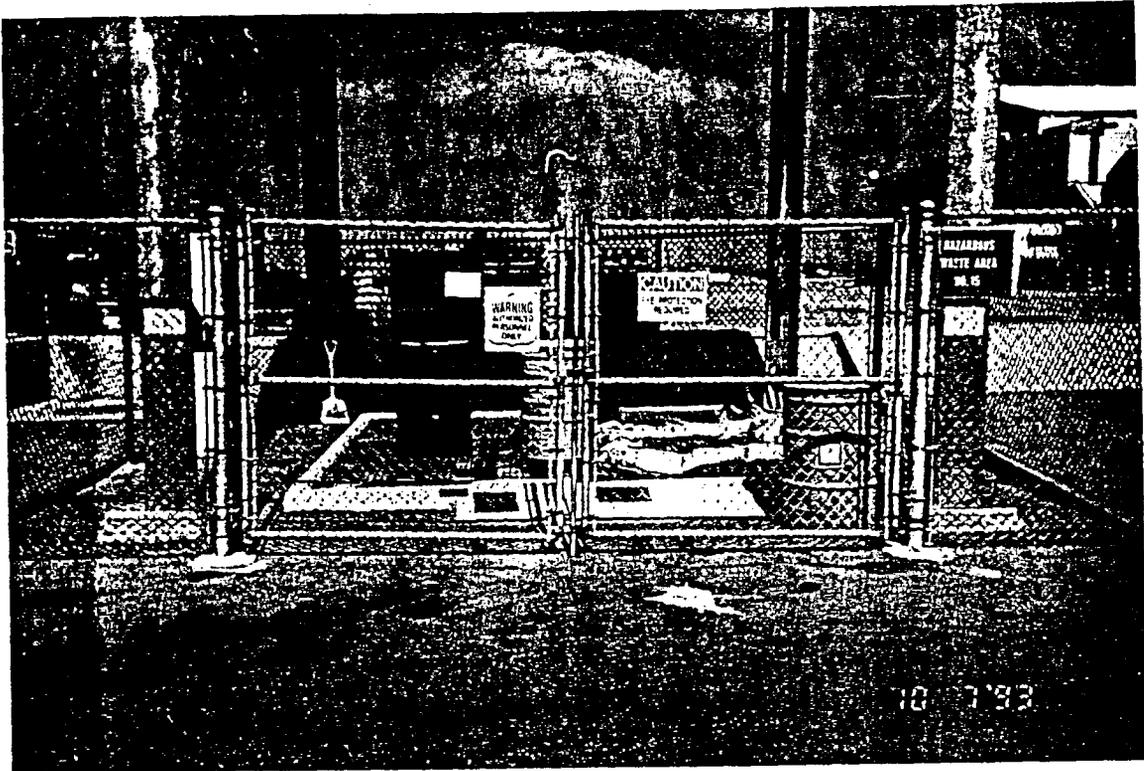
Prepared for:

Southwest Division Naval Facilities Engineering Command
1220 Pacific Highway
San Diego, CA 92132-5190

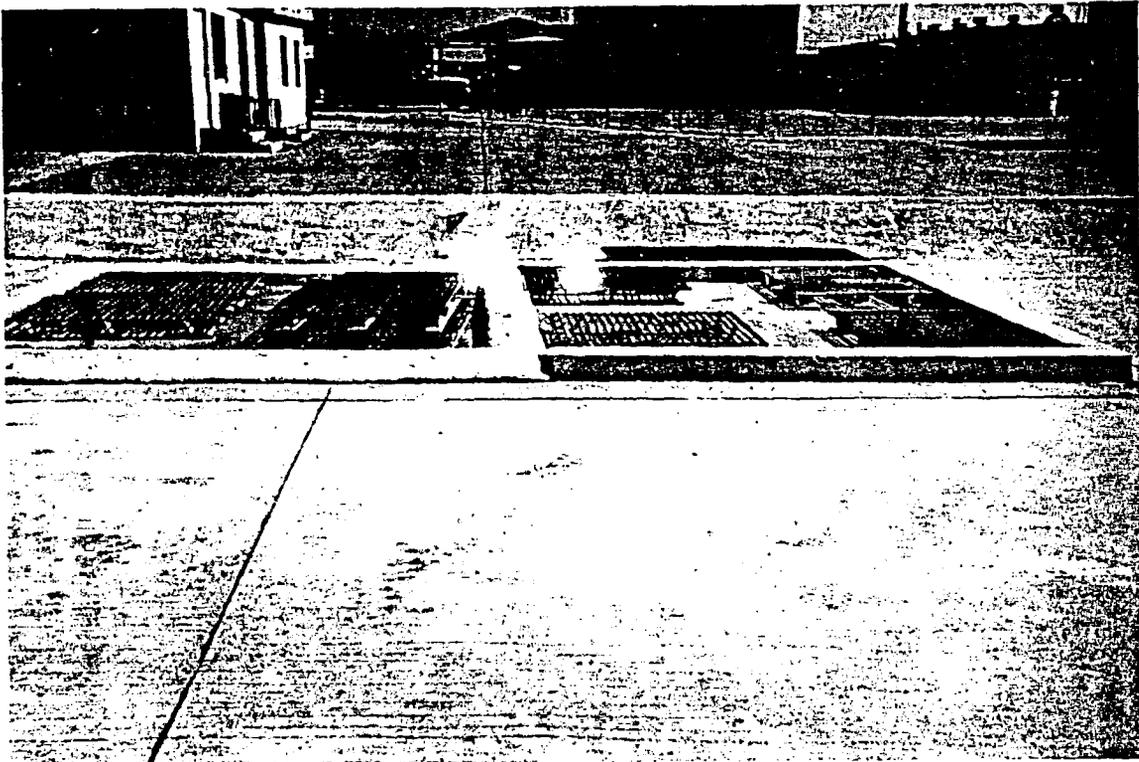
Prepared by:

Science Applications International Corporation
Engineering Sciences Division
10260 Campus Point Drive
San Diego, CA 92121

Contract No. N68711-92-D-4658
Delivery Order No. 0004



Marine All Weather Fighter Attack Squadron 242 (VFMA (AW) 242) Bldg 461



Marine All Weather Fighter Attack Squadron 121 (VFMA (AW) 121) Bldg 462

EXTRACTS

**STORM WATER POLLUTION PREVENTION PLAN
(SWPPP)**

FOR

**MARINE CORPS AIR STATION EL TORO
EL TORO, CALIFORNIA**

Annotations made by the writer of the
Summary Report are identified with a
star symbol or an arrow.

CONTRACT NO. N68711-96-D-2059
DELIVERY ORDER NO. 0002

VOLUME 1

JULY, 1997

INTEGRATED ENVIRONMENTAL MANAGEMENT, INC.

TABLE 5-39
MCASEL TORO
SPILL HISTORY

Date	Incident No.	Description
September 1, 1994	N/A	Approximately 1 gallon of hydrochloric acid and another gallon of chlorine spilled when their lines ruptured. Pumping through the line was stopped immediately and the spill was cleaned up with sodium bicarbonate. Spill contained to the flightline.
August 12, 1994	N/A	A small amount of paint stripper (methylene chloride) from a 5 gallon can spilled when the can overheated and blew its cap. The small amount evaporated before cleanup could occur.
July 14, 1994	249777	Approximately 25 gallons of transformer oil, possibly containing more than 55 ppm PCBs, spilled when the personnel handling the transformer overturned it. The initial responders laid down absorbent socks, mats pads and Lite-Dri absorbent around the spill and on the liquid. Workers then removed and drummed soil from the spill area as hazardous waste. Cleanup began immediately on 14 July 94 and was completed 15 July 94. Additional hazardous waste included the absorbent materials, personal protective gear rags and mops used to cleanup the spill.
April 26, 1994	N/A	Approximately 100 gallons of JP-5 fuel spilled when an aircraft vented its tanks. Spill cleaned up with speedy dry absorbent. Spill contained to the flightline.
March 8, 1994	N/A	Approximately 20 gallons of JP-5 fuel spilled when an aircraft was refueling. Spill cleaned up with speedy dry absorbent. Spill contained to the flightline.
May 11, 1993	318	Caustic soap leaked from a container behind Bldg. 317.
March 1, 1993	146	Approximately one quart of methyl ethyl ketone spilled to the ground at Bldg. 306.
September 9, 1992	873	Unknown quantity of fumigant released into the soil at Strawberry Field.
August 16, 1992	788	Fire occurred at Bldg. 751 with a van containing Hg, Li, Cd, and Pb-acid batteries. This caused a chemical release into the atmosphere.

TABLE 5-39
MCAS EL TORO
SPILL HISTORY

Date	Incident No.	Description
November 28, 1995	N/A	Approximately 2 quarts of hydraulic fluid were lost on the roadway and shoulder when a forklift's hydraulic line was inadvertently punctured. A drip pan was placed under the leaking line to contain the leak and contaminated soil was removed and drummed as hazardous waste.
September 18, 1995	N/A	A one gallon container of liquid scale dissolver spilled when it was dropped by warehouse personnel. The spill was diked and absorbed with ash. Spill contained to the warehouse floor.
September 12, 1995	N/A	Three quarts of hydraulic fluid spilled onto the concrete warehouse floor when a forklift's fork punctured the stored material during issuance. Spilled cleaned up with speedy dry absorbent. Spill contained to the warehouse floor.
July 21, 1995	N/A	Approximately 80 gallons of JP-5 fuel spilled when a fuel truck attempted to fuel an aircraft with an open fuel cell. Spill cleaned up with speedy dry absorbent. Spill contained to the flightline.
July 20, 1995	N/A	Approximately 10 gallons of JP-5 fuel spilled when an aircraft vented it's tanks. Spill cleaned up with speedy dry absorbent. Spill contained to the flightline.
June 29, 1995	N/A	Approximately 70 gallons of JP-5 fuel spilled from an aircraft fuel tank with a dysfunctional valve. Spill cleaned up with speedy dry absorbent. Spill contained to the flightline.
November 1, 1994	N/A	Approximately 400 gallons of JP-5 fuel leaked from an F/A-18 aircraft. Three hundred gallons were recovered and 100 gallons were cleaned up with speedy dry absorbent. Spill contained to the flightline.
November 1, 1994	N/A	Approximately 250 gallons of JP-5 fuel leaked from an F/A-18 aircraft. Spill cleaned up with speedy dry absorbent. Spill contained to the flightline.

TABLE 5-39 MCAS EL TORO SPILL HISTORY		
Date	Incident No.	Description
June 1, 1992	560	Approximately 3,950 gallons of JP-5 spilled from a refueler. Fuel was contained and did not enter storm drains.
May 28, 1992	552	JP-5 smell coming from storm drain at Bldg. 368. Flow from drain diverted to oil/water separators.
March 5, 1992	228	Three quarts of Hg spilled at Bldg. 297. The spill was contained.
March 5, 1992	223	Tractor trailer spilled 15-20 gallons of diesel fuel into sanitary sewer. Sewer system was diked and covered.
February 5, 1992	121	One gallon of transformer oil containing PCBs spilled at Bldg. 439. The spill was contained.
January 17, 1992	053	Approximately 100 gallons of antifreeze spilled into ditch and then to Agua Chinon.
December 18, 1991	1092	Lithium battery exploded at Bldg. 17. The debris was contained with some off-gassing.
November 19, 1991	997	Approximately 10 Lithium Batteries leaking and off-gassing at Bldg. 673T3.
September 16, 1991	754	Contaminated oil spilled into sewer at Bldg 295.
July 12, 1991	580	Paint stripper spilled into ditch near Bldg. 800. The spill was diverted to oil/water separator.
May 23, 1991	453	Unknown white substance found at Officer's Club crystal room.

A reference to a major spill is contained in the May 1990 SPCCP written for the MCAS. The SPCC states that "one major unauthorized release has occurred in the last two years. In August 1988, a 108,000 gallon JP-5 storage tank pipe was reported to have leaked causing soil and ground water contamination. The leak was reportedly repaired in early 1990."

No Further Action Decision Documents for Nearby Locations of Concern



**COUNTY OF ORANGE
HEALTH CARE AGENCY**

**HEALTH CARE REGULATORY SERVICES
ENVIRONMENTAL HEALTH**

JULIETTE A. POULSON, RN, MN
INTERIM DIRECTOR
MIKE SPURGEON
INTERIM DIRECTOR
HEALTH CARE REGULATORY SERVICES
JACK MILLER, REHS
DIRECTOR
ENVIRONMENTAL HEALTH
MAILING ADDRESS:
2009 EAST EDINGER AVENUE
SANTA ANA, CA 92705-4720
TELEPHONE: (714) 667-3600
FAX: (714) 568-5118
E-MAIL: environhealth@hca.co.orange.ca.us

September 27, 1999

Mr. Dean Gould
Base Realignment and Closure
Environmental Coordinator
Naval Facilities Engineering Command
Southwest Division-Code 5MBE.LMH
1220 Pacific Highway
San Diego, CA 92132-5190

Subject: Completion of Tank Removal Project

**RE: Marine Corps Air Station El Toro
Tank #462B and Oil/Water Separator #462A
Santa Ana, CA 92709**

Dear Mr. Gould:

This is in response to your request for a confirmation of the completion of the tank and oil/water separator abandonment project. With the provision that the results for the soil samples obtained during site assessment activities in May 1991 and on May 21, 1998, were accurate and representative of existing conditions, it is the position of this office that no significant soil contamination has occurred at the above noted facility location.

It should be pointed out that this letter does not relieve you of any responsibilities mandated under the California Health and Safety Code if additional or previously unidentified contamination is discovered at the subject site.

If you have any questions regarding this matter, please contact Arghavan Rashidi-Fard at (714) 667-3713.

Sincerely,

Seth J. Daugherty
Supervising Hazardous Waste Specialist
Hazardous Materials Management Section
Environmental Health Division

cc: Patricia Hannon, Santa Ana Regional Water Quality Control Board
Lynn Hornecker, SWDIV



California Regional Water Quality Control Board Santa Ana Region



Winston H. Hickox
Secretary for
Environmental
Protection

Internet Address: <http://www.swrcb.ca.gov/rwqcb8>
3737 Main Street, Suite 500, Riverside, California 92501-3348
Phone (909) 782-4130 - FAX (909) 781-6288

Gray Davis
Governor

July 7, 2000

Mr. Dean Gould
BRAC Environmental Coordinator
MCAS EL Toro
P.O. Box 51718
Irvine, California 92619-1718

REVIEW OF SITE ASSESSMENT REPORT, OWS 462A, FORMER MARINE CORPS AIR STATION, EL TORO

Dear Mr. Gould:

We have completed our review of the Site Assessment Report, Oil/Water Separator Site 462A, dated August 18, 1999, which we received on August 30, 1999. We do not have significant comments on this report and we concur with the recommendation for no further action.

For any questions on this review or related matters, please call me at (909) 782-4498.

Sincerely,


John Broderick
SLIC/DOD Section

cc: Mr. Glenn Kistner, U.S. Environmental Protection Agency, Region 9
Ms. Triss Chesney, Depart. of Toxic Substances Control, Office of Military Facilities
Mr. Gregory F. Hurley, RAB Co-Chair, MCAS El Toro
Ms. Polin Modanlou, MCAS El Toro Master Development Program
Ms. Lynn Hornecker, Southwest Division NAVFACENGC.COM

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California Environmental Protection Agency



Department of Toxic Substances Control



Terry Tamminen
Agency Secretary
CalEPA

Edwin F. Lowry, Director
5796 Corporate Avenue
Cypress, California 90630



Arnold Schwarzenegger
Governor

April 6, 2004

Mr. F. Andrew Piszkin
BRAC Environmental Coordinator
Base Realignment and Closure
Marine Corps Air Station El Toro
7040 Trabuco Road
Irvine, California 92618

APPROVAL OF SUMMARY REPORT FOR TEMPORARY ACCUMULATION AREA (TAA) 462, FORMER MARINE CORPS AIR STATION (MCAS) EL TORO

Dear Mr. Piszkin:

The Department of Toxic Substances Control (DTSC) has reviewed the subject document dated September 12, 2002. TAA 462 was identified as Solid Waste Management Unit (SWMU) 140 during the development of the Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) prepared for El Toro. The former temporary drum storage area consists of two concrete pads, and each pad is surrounded by a concrete curb and berm. TAA 462 encompasses an area of approximately 12 feet wide by 24 feet long, located northeast of Building 462 in the southeastern section of MCAS El Toro on an aircraft concrete parking apron.

The report presents the results of historical records review and visual site inspection activities at TAA 462. Based upon available historical information, it is estimated that TAA 462 was used from the late 1980's until July 1999 for storage of 55-gallon drums of waste oil, hydraulic fluid, and antifreeze.

Since TAA 462 is located on a runway tarmac approximately 8 inches thick and the excellent condition of the concrete pads, DTSC concurs with the designation of no further action for TAA 462 in the next Base Realignment Closure Business Plan update.

received
4/13/04

♻️ Printed on Recycled Paper

Mr. F. Andrew Piszkin, P.E.
April 6, 2004
Page 3

cc: Ms. Polin Modanlou
County of Orange
Planning and Development Services Department
300 North Flower Street, 3rd Floor
Santa Ana, California 92703

Mr. Steven Sharp
Orange County Health Care Agency
2009 East Edinger Avenue
Santa Ana, California 92705

Ms. Content Arnold
Remedial Project Manager
Naval Facilities Engineering Command
Southwest Division - Code 06CC.CA
1220 Pacific Highway
San Diego, California 92132-5187

SENSITIVE RECORD

PORTIONS OF THIS RECORD ARE CONSIDERED SENSITIVE
AND ARE NOT AVAILABLE FOR PUBLIC VIEWING

ADDRESS OF PRIVATE CITIZEN

FOR ADDITIONAL INFORMATION, CONTACT:

DIANE C. SILVA, RECORDS MANAGER
NAVAL FACILITIES ENGINEERING COMMAND, SOUTHWEST
1220 PACIFIC HIGHWAY
SAN DIEGO, CA 92132

TELEPHONE: (619) 556-1280
E-MAIL: diane.silva@navy.mil

SENSITIVE

Mr. F. Andrew Plezkin, P.E.
April 6, 2004
Page 2

If you have any questions, please contact me at (714) 484-5419.

Sincerely,



Tayseer Mahmoud
Senior Hazardous Substances Engineer
Office of Military Facilities
Southern California Branch

cc: Ms. Nicole Moutoux
Remedial Project Manager
U. S. Environmental Protection Agency Region IX
Superfund Division (SFD-8-1)
75 Hawthorne Street
San Francisco, California 94105-3901

Mr. John Broderick
Remedial Project Manager
California Regional Water Quality Control Board
Santa Ana Region
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Mr. Robert Woodings
Restoration Advisory Board Co-chair
23161 Lake Center Drive Suite 100
Lake Forest, California 92630

Ms. Marcia Rudolph
Restoration Advisory Board Subcommittee Chair
24922 Mulirlands #139
Lake Forest, California 92630

EXTRACTS

**DRAFT FINAL
RECORD OF DECISION
OPERABLE UNITS 2A AND 3A
NO ACTION SITES
MARINE CORPS AIR STATION
EL TORO, CALIFORNIA**

SEPTEMBER 1997

DECLARATION

SITE NAME AND LOCATION

Marine Corps Air Station (MCAS) El Toro
Operable Unit-3A, Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, and 22
Operable Unit-2A, Site 25
Orange County, California

STATEMENT OF BASIS AND PURPOSE

This decision document presents the selected remedial action for Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, 22, and 25 at MCAS El Toro in Orange County, California. The document was developed in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), as amended by the Superfund Amendments and Reauthorization Act of 1986 and, to the extent practicable, the National Oil and Hazardous Substances Pollution Contingency Plan. This decision is based on the administrative record file for these sites.

The State of California (through the California Environmental Protection Agency, Department of Toxic Substances Control, and Santa Ana Regional Water Quality Control Board) and the U.S. Environmental Protection Agency concur with the selected remedy.

DESCRIPTION OF THE SELECTED REMEDY: NO ACTION

The selected remedy for Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, 22, and 25 is no action. In selecting the no action remedy for these sites, the Navy has determined that the existing condition of the sites is protective of human health and the environment.

Although no deed restrictions are required because of chemicals present in soils at the no action sites, shallow groundwater underlying Sites 9, 10, 13, 15, 21, 22, and portions of Site 25 is contaminated by trichloroethene and tetrachloroethene. Remedial investigations have shown that the contamination does not originate from these sites but from Site 24, the volatile organic compound source area. Use restrictions for several sites (including Site 24 and the no action sites listed above) prohibiting drilling of wells and/or extraction of groundwater and allowing access for groundwater monitoring and maintenance of equipment associated with groundwater remediation will be addressed in the Proposed Plan(s) and Record(s) of Decision for Operable Unit-1 and -2A regarding groundwater.

DECLARATION STATEMENT ☆

Based on extensive field investigations, laboratory analyses, and a thorough assessment of potential human-health risks at each location and of potential ecological risks at Site 25, the Navy has determined that no remedial action is necessary to assure the protection of human health and the environment at Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, 22, and 25. The Remedial Investigations of these sites show that contamination is limited to the shallow soil interval (Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, and 22) and to sediment and

Date: 09/26/97

Declaration

surface water (Site 25). The human health and ecological risk assessments show that the chemicals present in these media do not present an unacceptable risk to human health or the environment. Therefore, no remedial action is required at these sites. Since hazardous substances are not present at concentrations above unacceptable levels, CERCLA Section 121 cleanup standards do not apply.

Signature: Joseph Joyce
Mr. Joseph Joyce
Base Closure and Realignment Environmental Coordinator
Marine Corps Air Station El Toro

Date: Sept 23, 1997

Signature: John E. Scandura
Mr. John E. Scandura, Chief
Southern California Operations
Office of Military Facilities
Department of Toxic Substances Control

Date: Sept. 26, 1997

Signature: Daniel D. Opalski
Mr. Daniel D. Opalski, Chief
Federal Facilities Cleanup Branch
United States Environmental Protection Agency, Region IX

Date: 9/29/97

Signature: Gerald J. Thibault
Mr. Gerald J. Thibault
Executive Officer
Regional Water Quality Control Board, Santa Ana Region

Date: 9/30/97

Date: 09/26/97

Declaration

surface water (Site 25). The human health and ecological risk assessments show that the chemicals present in these media do not present an unacceptable risk to human health or the environment. Therefore, no remedial action is required at these sites. Since hazardous substances are not present at concentrations above unacceptable levels, CERCLA Section 121 cleanup standards do not apply.

Signature: _____
Mr. Joseph Joyce
Base Closure and Realignment Environmental Coordinator
Marine Corps Air Station El Toro

Date: _____

Signature: _____
Mr. John E. Scandura, Chief
Southern California Operations
Office of Military Facilities
Department of Toxic Substances Control

Date: _____

Signature: _____
Mr. Daniel D. Opalski, Chief
Federal Facilities Cleanup Branch
United States Environmental Protection Agency, Region IX

Date: _____

Signature: _____
Mr. Gerald J. Thiebeault
Executive Officer
Regional Water Quality Control Board, Santa Ana Region

Date: _____

Section 7**DESCRIPTION OF NO ACTION ALTERNATIVE**

Based on the Phase I and Phase II RIs and the baseline HHRA, Sites 4, 6, 9, 10, 13, 15, 19, 20, 21, 22, and 25 do not pose an unacceptable risk to human health or the environment. Accordingly, no remedial action is appropriate for the RI sites. DON will not conduct monitoring or periodic reviews of the sites. The DTSC, RWQCB, and U.S. EPA agree with this determination. The DON's selection of no action for these sites reflects the determination that the overall condition of the sites is protective of human health and the environment.

Section 121(d) of CERCLA states that remedial actions at CERCLA sites must, upon completion, attain any federal (or state if more stringent) environmental standards, requirements, criteria, or limitations that are determined to be applicable or relevant and appropriate requirements (ARARs). ARARs do not apply unless remedial action is being taken at a site and are therefore not applicable to the no action sites addressed in this ROD.

Although no deed restrictions are required because of chemicals present in soils at the no action sites, shallow groundwater underlying Sites 9, 10, 13, 15, 21, 22, and portions of Site 25 is contaminated by TCE and PCE. Remedial investigations have shown that the contamination does not originate from these sites but from Site 24, the VOC source area. Use restrictions for several sites (including Site 24 and the no action sites listed above) prohibiting drilling of wells and/or extraction of groundwater and allowing access for groundwater monitoring and maintenance of equipment associated with groundwater remediation will be addressed in the Proposed Plan(s) and Record(s) of Decision for OU-1 and 2A regarding groundwater.