

Summary Report

*Phantom Drum Storage Area
Solid Waste Management Unit (SWMU) 121
Marine Corps Air Station, El Toro, California*

4 January 2002

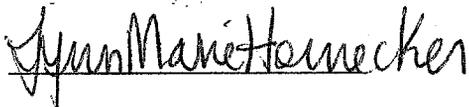
Prepared by:
Southwest Division, Naval Facilities Engineering Command
BRAC Programs Office
San Diego, CA 92101-2404

Summary Report

Phantom Drum Storage Area
Solid Waste Management Unit (SWMU) 121
Marine Corps Air Station, El Toro, California

4 January 2002

Prepared by:



Lynn Marie Hornecker
Project Manager

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

TRANSMITTAL

Date: 26 July 2002

From: Lynn Marie Hornecker *LMH*
MCAS El Toro

To: Diane Silva
Code ~~01LS.DS~~ *05G.DS*

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Marine Corps Air Station, El Toro

Installation: Marine Corps Air Station, El Toro

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Date: 4 January 2002

From: Lynn Marie Hornecker *AMH*

To: Triss Chesney
State of California Environmental Protection Agency
Department of Toxic Substances Control (DTSC), Region 4
Site Mitigation Branch, Base Closure Unit
5796 Corporate Avenue
Cypress, CA 90630

Subj: Solid Waste Management Unit (SWMU 121)
Phantom Drum Storage Area near Building 390
Marine Corps Air Station, El Toro

Provided for your review as the attachment is the Summary Report for Solid Waste Management Unit (SWMU 121), a phantom or non-existent drum storage area near Building 390 at the Marine Corps Air Station, El Toro. SWMU 121 was identified during the Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA). The RFA documentation states that a letter from the Regional Water Quality Control Board (RWQCB), Santa Ana Region dated 1989 identified the drum storage area near Building 390 and that the RFA team was not able to locate SWMU 121 during the visual inspection activities. A copy of the 1989 RWQCB letter is included with the Summary Report; the letter does not identify drum storage area(s) at Building 390, however, the letter does identify drum storage area(s) at Building 392. The RFA identified four other drum storage areas that have been investigated and closed as Temporary Accumulation Areas (TAAs) in the fenced compound that includes Building 390: SWMU 119 (TAA 389A), SWMU 259 (TAA 389B), SWMU 122 (TAA 390A), and SWMU 261 (TAA 390B). It is possible that SWMU 121 was a duplicate identifier for one of the four TAAs within the fenced compound that includes Building 390.

Based upon the review of historical information and the field sampling at and closure of former hazardous waste accumulation areas – TAA 389A, TAA 389B, TAA 390A, and TAA 390B – within the fenced compound that includes Building 390, we recommend that SWMU 121 be designated a phantom or non-existent site and that SWMU 121 be deleted from the list of Locations of Concern in the next BRAC Business Plan update.

SOUTHWESTNAVFACENGCOM
BRAC Operations
Code 06CC.LMH
1220 Pacific Highway
San Diego, California 92132-5190

File: etswtrswmu121ltr.doc

If we do not receive comments from your office within sixty (60) days of receipt of this transmittal, then we will assume that you concur with our recommendations to designate SWMU 121 a phantom or non-existent site and to delete SWMU 121 from the list of Locations of Concern.

Please do not hesitate to call me at (619) 532-0783 if you have questions on the attachment. Thank you very much.

Attachment

Summary Report (SWDIV, January 2002)

CF:

Dean Gould (MCAS El Toro BEC)

Project File (MCAS El Toro)

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Section 1

Introduction

The purpose of this Summary Report is to present information pertaining to a phantom or non-existent drum storage area, designated as Solid Waste Management Unit (SWMU) 121, in the southeastern section of the Marine Corps Air Station (MCAS), El Toro. SWMU 121 was identified during the Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA). The RFA documentation indicates that SWMU 121 was identified as a drum storage area in the Regional Water Quality Control Board (RWQCB), Santa Ana Region letter dated 23 June 1989. The RFA documentation also indicates that a visual inspection of the Building 390 area was conducted in 1991 and that the drum storage area was not located.

The 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. SWMU 121 is located in the southeastern section of the Station in the vicinity of Building 390 - the golf cart maintenance shop. Building 390 is located near the intersection of El Toro Boulevard and "Z" Street near the golf course. The vicinity of Building 390 and SWMU 121 is shown on Figure 1.

The Station closed on 2 July 1999 in accordance with the Base Realignment and Closure Act of 1993 (BRAC III). SWMU 121 is located within a parcel designated for future use as an aviation support area according to *The Preferred Land Use Plan, Concept B* (County of Orange, August 1999) as shown on Figure 2.

This Summary Report includes a description of information collected during a review of historical property records, environmental compliance management plans, the reports for Temporary Accumulation Areas (TAAs) located near Building 390, and the results of visual inspections of the site. The records show that Building 390 was constructed as an auto maintenance shop in approximately 1955 and Building 390 was used as a golf cart maintenance shop until the Station closed. The RWQCB letter of 1989 does not identify drum storage area(s) at Building 390, however the letter does identify drum storage area(s) at Building 392.

During the RFA, four other drum storage areas were identified in the fenced compound that includes Building 390, and these four TAAs have been investigated and closed. The four former TAAs in the Building 390 vicinity have the following SWMU identifiers: SWMU 119 (TAA 389A), SWMU 259 (TAA 389B), SWMU 122 (TAA 390A), and SWMU 261 (TAA 390B).

Based upon the review of the historical information, it appears that SWMU 121 was a duplicate identifier for one of other drum storage areas at the compound that includes Building 390. It is recommended that SWMU 121 be considered a phantom or non-existent site and that SWMU 121 be deleted from the inventory of locations of concern in the next BRAC Business Plan update.

Section 2

Field Inspections and Historical Records

2.1 Field Inspections and Sampling Activities at nearby Locations of Concern.

SWMU 121 was described as a drum storage area at Building 390. A review of records and visual inspections were conducted during the preparation of 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). The visual inspection documentation states the following: "A DSA was identified near Building 390 in a letter from the RWQCB to Lt. Rehor, dated June 23, 1989. The area around Building 390 consists of a large, asphalt, paved area. The entire area was visually surveyed during the visual site inspection, but the DSA could not be located."

The letter dated June 23, 1989 from the RWQCB (Administrative Record identifier M60050.001130) is included in the Appendix to this report. The letter does not identify drum storage areas at Building 390, however, the letter does identify drum storage areas at Building 392 in the northeastern section of the Station. The temporary accumulation areas at Building 390 and nearby Building 389 have been investigated and closed under the RFA program. The temporary accumulation areas at Building 392 (TAA 392A and TAA 392B) are being evaluated under the RFA program.

Temporary accumulation area TAA 390A and TAA 390B were identified as SWMU 122 (drum storage area) and SWMU 261 (drum storage area), respectively, during the RFA. Nearby TAA 389A and TAA 389B were identified as SWMU 119 (drum storage area) and SWMU 259 (drum storage area), respectively, during the RFA.

The vicinity of SWMU 121 has been visually inspected by Navy representatives and Navy contractors during the investigation of TAAs 390A & 390B, TAAs 389A & 389B, UST Sites 390A & 390B, AST Sites 390A & 390B, UST 762B, OWS 762A, TAA 772, SWMU 46, and aerial photograph anomalies APHO 12, APHO 20, APHO 21, and APHO 51. The visual inspections were documented with observations and photographs in the closure or summary documents for each of the sites.

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 CERCLA Administrative Record. Information pertaining to Building 390 and the SWMU 121 vicinity is summarized in Tables 1 and 2. No Further Action decision documents for environmental locations of concern near SWMU 121 are included in the Appendix.

Table 1. MCAS El Toro Historical Records for the Building 390 Vicinity.

| Building Identification Number | Approximate year of acquisition or construction | Type of Use | Comments |
|--------------------------------|---|----------------------------------|--|
| Building 390 | 1955 | Auto maintenance shop | The property records indicate that the building is 200 feet long by 32 feet wide. The 1958 Station Map identifies Building 390 as an auto maintenance shop. The 1994 building guide identifies Building 390 as the golf cart shop. |
| Building 389 | 1955 | Loading/Unloading Ramp | 1958 Station Map identifies Building 389 as a loading platform. The 1994 building guide identifies Building 390 as a loading/unloading ramp. |
| Building 762 | 1985 | Vehicle wash equipment building | Building 762 includes the controls for the oil/water separator at the adjacent wash rack at Building 390. |
| Building 772 | 1983 | Hazardous materials storage area | Building 772 is also known as TAA 772 and is being evaluated under the RFA program. |
| | | | |

Hazardous Materials/Hazardous Waste Management Plan (HM/HWMP of 1994) and Historical Hazardous Waste Management Documents

Visual inspections of TAAs were conducted in 1993, and the HM/HWMP (SAIC 1994) identifies a hazardous waste accumulation area at Building 390. Extracts from the HM/HWMP are included in the Appendix.

Hazardous waste management and spill contingency planning documents from the 1980's were acquired from the CERCLA Administrative Record (AR) files and reviewed. Extracts from the historical documents are included in the Appendix.

The list entitled "Additional Sites Needing Investigation" dated 1989 (Administrative Record identifier M60050.000776) identifies the wash rack at Building 390.

The Oil & Hazardous Substances Spill Prevention, Control, and Countermeasure Field Survey Report and SPCC Plan (SCS Engineers 1979/Administrative Record identifier M60050.000808) was reviewed. The document includes a list of areas that store hazardous substances. Building 390 is identified as a vehicle maintenance area and a wash rack site. The document does not recommend improvements for the vehicle maintenance area. The document recommends improvements for the wash rack site that is located on the southwest side of Building 390. The wash rack site included UST 762B and OWS 762A; both tanks were removed and the wash rack was demolished in 1997.

Storm Water Pollution Prevention Plan (SWPPP)

Visual inspections of areas where hazardous materials and hazardous wastes were stored were conducted in 1993. The SWPPP identifies unleaded gasoline, waste oil, and vehicle wash water as potential pollutants at Building 390. Comments or recommendations for additional best management practices at Building 390 were associated with the oil/water separator at the wash rack at Building 390 and the sweeping of floors at Building 390 (IEM 1997). The SWPPP also includes a spill history table in Section 5, and this table does not identify historic spills at Building 390e. Extracts from the SWPPP are included in the Appendix.

Surface runoff from the Building 390 vicinity discharges to Agua Chinon Wash. Surface water quality was monitored under the Station's National Pollutant Discharge Elimination System (NPDES) Permit for storm water while the Station was operational and surface water samples were collected routinely from Agua Chinon Wash. Additionally, the surface drainage channels, including Agua Chinon Wash, were investigated as IRP Site 25 –the Major Drainages – during the remedial investigation, and a Record of Decision for No Action was signed for IRP Site 25 in September 1997.

Tank (UST) Program

The SWMU 121 vicinity includes several tank sites. Underground Storage Tank (UST) 390A (550 gallons) and UST 390B (2,000 gallons) were used for storage of gasoline and diesel fuel. The tanks, located on the northwest side of Building 390, have been removed. Three groundwater monitoring wells have been constructed and monitoring activities have been conducted for more than four quarters. Two wells are located on the northwestern side of Building 390 and one well is located on the southeastern side of Building 390. The petroleum release is being addressed with oversight from the RWQCB as of January 2002. A map and groundwater information from the Site Assessment Report that shows sample locations are included following the no further action decision documents in the Appendix.

UST 762B (approximately 185 gallons) and oil/water separator (OWS) 762A (approximately 100 gallons) received wash water from the wash rack adjacent to the southwest side of Building 390. The tanks were removed with oversight by the Orange County Health Care Agency (OCHCA), and OCHCA closed the sites in 1997. The wash rack was demolished during tank removal activities.

Above-ground Storage Tank (AST) 390A and AST 390B (each with a 500-gallon capacity) are used for storage of gasoline and diesel fuel and are located near the northeast side of Building 390. The tanks were operated by the Marine Corps until 1999. In July 1999, the County of Orange leased Building 390 from the Department of the Navy and the County of Orange has operated the above-ground tanks since July 1999. The RWQCB is evaluating the closure documentation for these tank sites as of January 2002.

Temporary Accumulation Areas

Temporary Accumulation Areas (TAAs) 390A and 390B are located near Building 390. TAAs 389A and 389B are located within the same fenced compound as Building 390. TAA 390A was located northwest of Building 390; TAA 390B had two areas on the southeast side of Building 390 - one unit was located adjacent to the southeast Building 390 wall and the other unit was located approximately 50 feet southeast of the building wall near "Z" Street. TAA 389A and TAA 389B were located in the vicinity of Building 389 (a loading/unloading ramp) that is located northwest of Building 390. Soil samples were collected at the TAA sites and the sites were closed by the Department of Toxic Substances Control. Vicinity maps of TAAs 389A & 389B and TAAs 390A & 390B are included with the no further action decision documents in the Appendix. The vicinity maps show the nearest groundwater monitoring wells.

TAA 772 (also known as SWMU 225) is located southeast of Building 390, soil samples have been collected at the TAA site, and the TAA data is under evaluation as of January 2002.

RCRA Facility Assessment Sites

Solid Waste Management Unit (SWMU) 46 - former Defense Reutilization and Marketing Office (DRMO) Yard 2 - is located southwest of Building 390. Samples were collected at SWMU 46 during the RFA and no further action status was achieved in 1999.

Former RCRA Permitted Facility

The former RCRA-permitted hazardous waste storage facility was located at Building 673-T3 which is located approximately north of Building 390. The facility was decontaminated and field sampling activities were conducted during the closure process. The site was closed by DTSC in 1996.

Aerial Photograph Anomaly Program

Four aerial photograph anomaly sites are located near Building 390 - APHO 12, APHO 20, APHO 21, and APHO 51. No further action status has been achieved for the sites. A map of the APHO 12 vicinity is included with the no further action decision document in the Appendix; the map shows some of the nearby RFA and tank sites.

Installation Restoration Program

Installation Restoration Program (IRP) Site 5 - Perimeter Road Landfill - is the nearest IRP site to Building 390; the site is located southeast of Building 390. Monitoring wells for IRP Site 5 and IRP Site 18 are located southeast of Building 390. The CERCLA Records of Decision for IRP Site 5 and IRP Site 18 are in development as of January 2002.

**Table 2. Information from Environmental Program Projects.
 SWMU 121 Vicinity**

| Location Identifier | Status | Comments |
|----------------------------------|------------------|--|
| UST 390A and UST 390B | Work in progress | Tanks have been removed and soil and groundwater sampling was conducted. Three groundwater monitoring wells were constructed at the site. Corrective actions in progress as of January 2002 |
| UST 762B/OWS 762A | NFA | Tanks have been removed and soil sampling was conducted. Sites are located near the wash rack at the southwest side of Building 390. |
| SWMU 46 | NFA | Former DRMO Yard 2 - vehicle maintenance and parking area. Soil sampling was conducted during RFA. Site is located southwest of Building 390. |
| TAA 390A & TAA 390B | NFA | Soil sampling was conducted. Sites are located on the southeast side and paved area northwest of Building 390. |
| TAA 389A & TAA 389B | NFA | Soil sampling was conducted. Sites are located northwest of Building 390 near Building 389. |
| TAA 772 | Work in progress | Soil sampling was conducted. Site is located approximately east of Building 390. |
| Building 673-T3 | Closed | Former RCRA-permitted site. Site is located approximately north of Building 390. |
| APHO 12 | NFA | Site is located within SWMU 46 investigation area. |
| APHO 20 and APHO 21 | NFA | Sites are located approximately east of Building 390. |
| APHO 51 | NFA | Site is located approximately east-northeast of Building 390. |
| Well 18_BGMW02 (cluster well) | Work in progress | The well, located approximately east of Building 390, is managed under IRP Site 18. |

2.3 Ground Water Conditions

Ground water conditions have been investigated in the vicinity of Building 390 during the investigations at former UST Sites 390A and 390B. Three groundwater monitoring wells were constructed near Building 390 for the UST investigation, and results of monitoring activities have been submitted to the RWQCB.

Section 3

Findings and Recommendations

The following findings are based upon information collected during the record search activities, the RFA documentation, and from observations during the visual inspections of the vicinity of SWMU 121 at Building 390:

- The RFA documentation indicates that the RWQCB identified SWMU 121 (drum storage area(s) at Building 390) in the letter dated 23 June 1989. The letter, which is included in the Appendix, does not identify Building 390, however, Building 392 is identified. Furthermore, the RFA documentation indicates that the drum storage area could not be located during the visual inspection. It is possible that a transcription error resulted in the identification of a phantom or non-existent drum storage area at Building 390.
- The RFA identified two drum storage areas at Building 390: SWMU 122 (TAA 390A) and SWMU 261 (TAA 390B). TAA 390A was located northwest of Building 390. TAA 390B included two areas on the southeast side of Building 390. Soil sampling was conducted during the closure of these TAAs.
- The RFA identified two drum storage areas northwest of Building 390, near Building 389: SWMU 119 (TAA 389A) and SWMU 259 (TAA 389B). Soil sampling was conducted during the closure of these TAAs.

Based upon the review of information from the record search activities and field sampling activities from TAAs 389A, 389B, 390A, and 390B, it appears that SWMU 121 (drum storage area near Building 390) is a phantom or non-existent site. SWMU 121 may have been inadvertently identified as a duplicate for one of the four drum storage areas within the fenced compound that includes Building 390.

It is recommended that SWMU 121 (drum storage area near Building 390) be considered a phantom or non-existent site and that SWMU 121 be deleted from the inventory of locations of concern in the next Business Plan Update.

Section 4

References and/or Sources of Information

California Regional Water Quality Control Board, Santa Ana Region. 1989. Correspondence to Marine Corps Air Station, El Toro. 23 June.

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

Integrated Environmental Management (IEM). 1997. Storm Water Pollution Prevention Plan (SWPPP) for Marine Corps Air Station, El Toro, El Toro, California. July. [Contract No. N68711-96-D-2059, Delivery Order Number 0002] *{Annotation: The IEM planning document included the acquisition and review of historical and current plans of facilities and utilities. Extracts from the IEM report are presented in the Appendix.}*

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]

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 Substances Spill Prevention, Control, and Countermeasure Field Survey Report and SPCC Plan for the Marine Corps Air Station, El Toro, California.

Southwest Division, Naval Facilities Engineering Command. 1999. Site Assessment Report, Former Underground Storage Tank Sites 390A and 390B, Marine Corps Air Station, El Toro.

Southwest Division, Naval Facilities Engineering Command. 1999. Summary Report, Aerial Photograph Anomaly APHO 12, Marine Corps Air Station, El Toro.

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

United States Marine Corps Air Station, El Toro. 2001. Base Realignment and Closure (BRAC) Business Plan.

United States Marine Corps Air Station, El Toro. Circa 1946-1999. Station Property Records and Building Guides. (General Development Maps dated 1954 and 1978; Facility Maps dated 1954 and 1958; Building Guides dated 1989, 1994, and 1997)

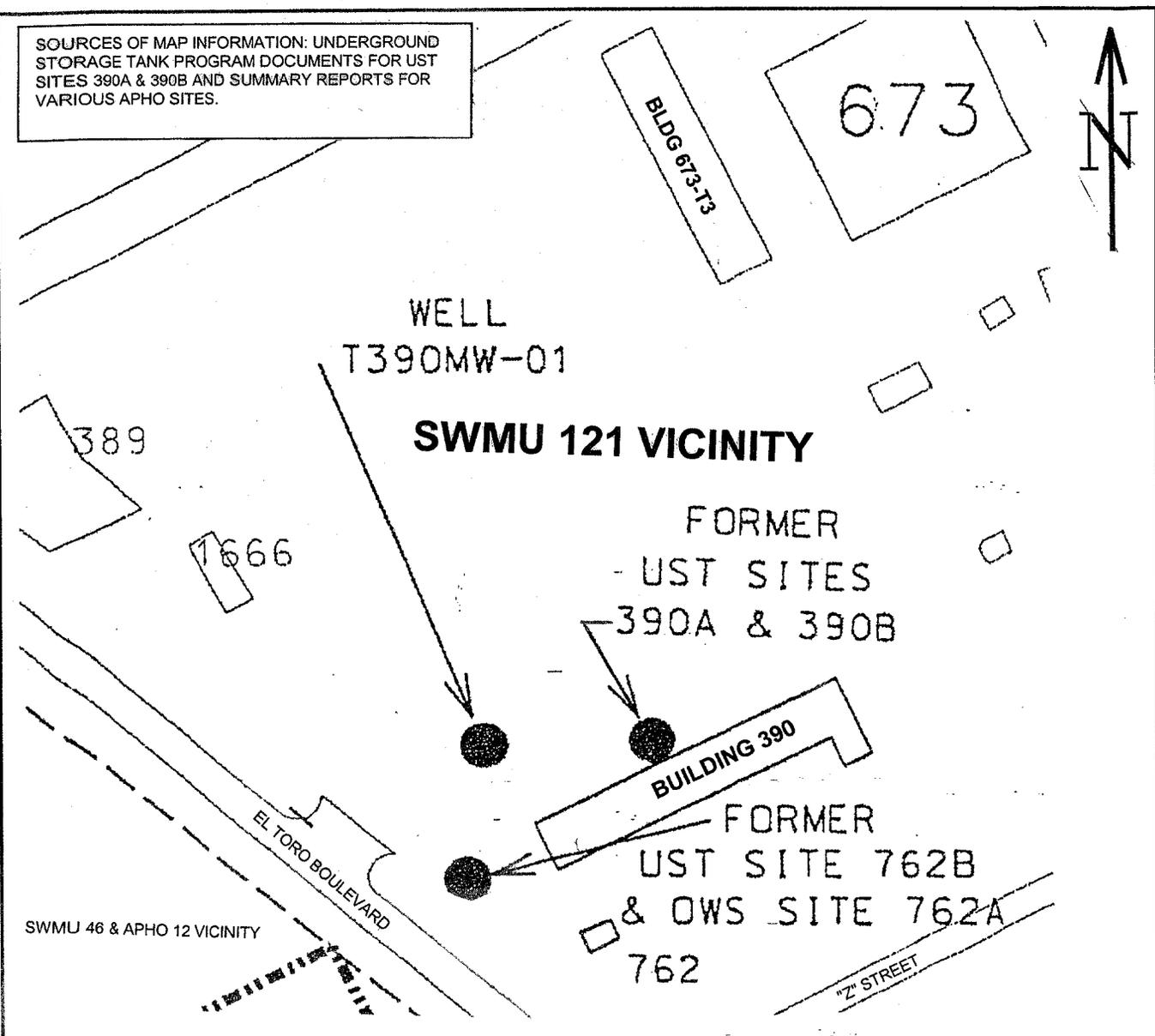
U.S. Marine Corps Air Station, El Toro. 1997. Draft Final Record of Decision, Operable Units 2A and 3A, No Action Sites, Marine Corps Air Station, El Toro, California. September.

United States Marine Corps Air Station, El Toro, Public Works Department. 1954. Master Plot Plan, Proposed Additional Aircraft Parking Facilities in Tactical Area III and Proposed Relocation of Existing Stables. [Alternate drawing identification number Public Works drawing PS-1236]

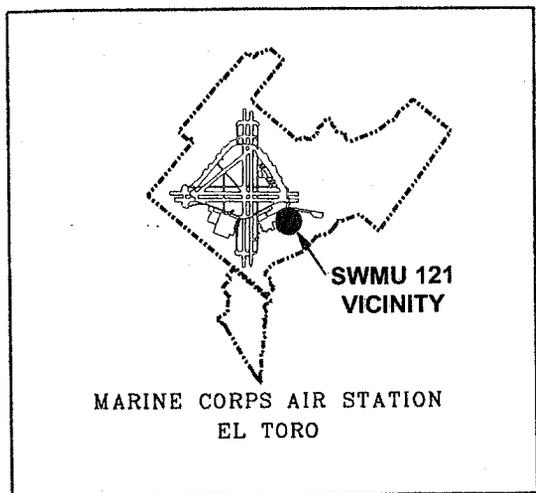
United States Marine Corps Air Station, El Toro. 1994. Aerial Photograph.

United States Marine Corps Air Station, El Toro. 1997-2000. No Further Action correspondence from RWQCB, OCHCA, and/or DTSC.

SOURCES OF MAP INFORMATION: UNDERGROUND STORAGE TANK PROGRAM DOCUMENTS FOR UST SITES 390A & 390B AND SUMMARY REPORTS FOR VARIOUS APHO SITES.



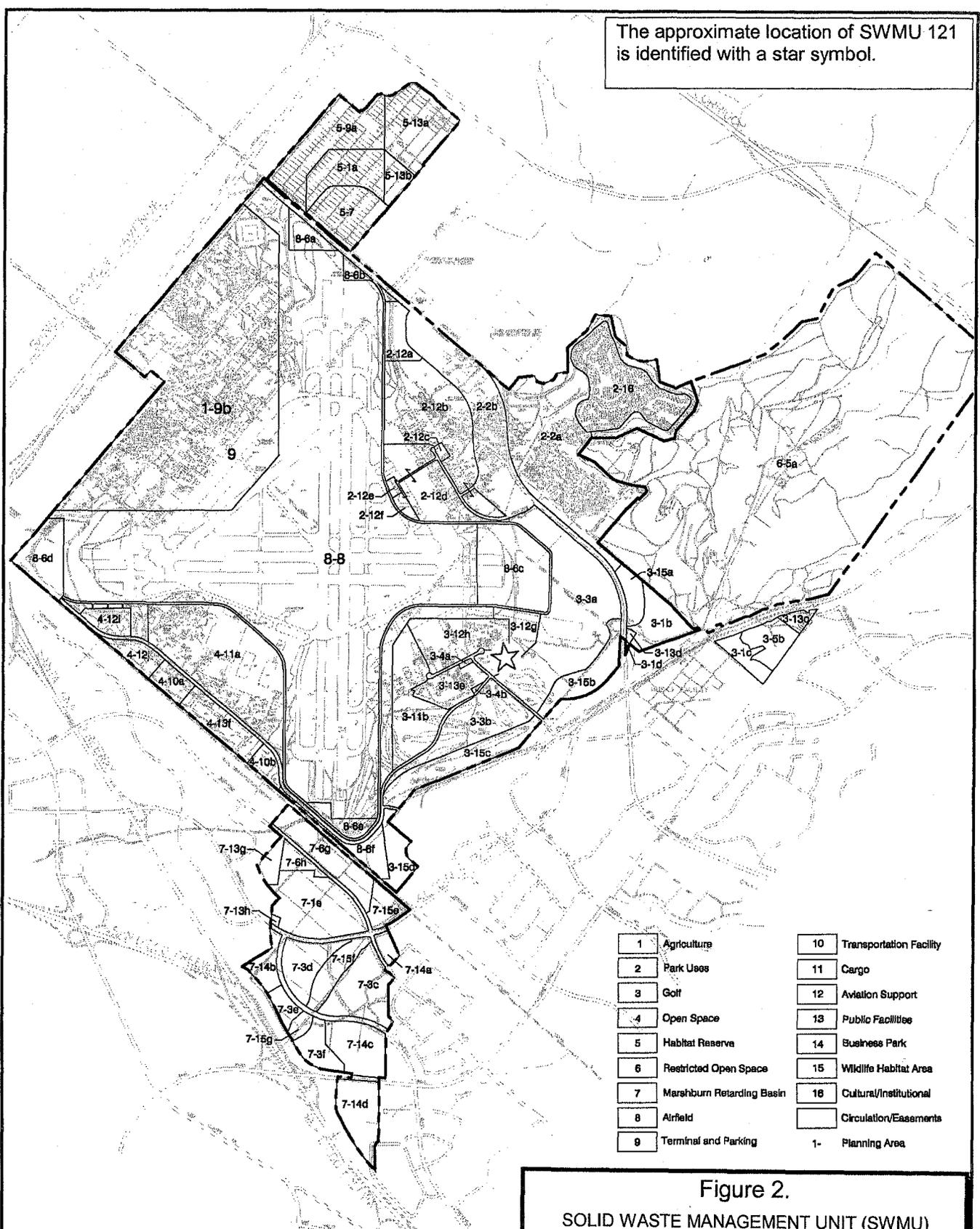
SWMU 46 & APHO 12 VICINITY



NOTES:
(1) APPROXIMATE SCALE IS 1 INCH = 100 FEET
(2) LOCATIONS OF WELLS, TANKS, AND OTHER FEATURES ARE APPROXIMATE.

Figure 1.
SOLID WASTE MANAGEMENT UNIT (SWMU) NUMBER 121
VICINITY MAP
MARINE CORPS AIR STATION, EL TORO

The approximate location of SWMU 121 is identified with a star symbol.



| | | | |
|---|---------------------------|----|-------------------------|
| 1 | Agriculture | 10 | Transportation Facility |
| 2 | Park Uses | 11 | Cargo |
| 3 | Golf | 12 | Aviation Support |
| 4 | Open Space | 13 | Public Facilities |
| 5 | Habitat Reserve | 14 | Business Park |
| 6 | Restricted Open Space | 15 | Wildlife Habitat Area |
| 7 | Marshburn Retarding Basin | 16 | Cultural/Institutional |
| 8 | Airfield | | Circulation/Easements |
| 9 | Terminal and Parking | 1- | Planning Area |

Figure 2.
SOLID WASTE MANAGEMENT UNIT (SWMU)
NUMBER 121
TENTATIVE REUSE PARCEL
LOCATIONS
MARINE CORPS AIR STATION, EL TORO

Appendix

Site Photographs and Other Documentation

Site Photographs

Regional Water Quality Control Board, Santa Ana Region Letter dated
1989

Extracts from RFA Documentation (JEG 1993)

Extracts from historical hazardous waste management documents

Extracts from HM/HWMP (SAIC 1994)

Extracts from Storm Water Pollution Prevention Plan (SWPPP) (IEM 1997)

Extracts from Property Records, Building Guides, and Historical Facility
Maps

Extracts from Base Realignment and Closure Business Plan of 2001

No Further Action Decision Documents for Nearby Locations of Concern

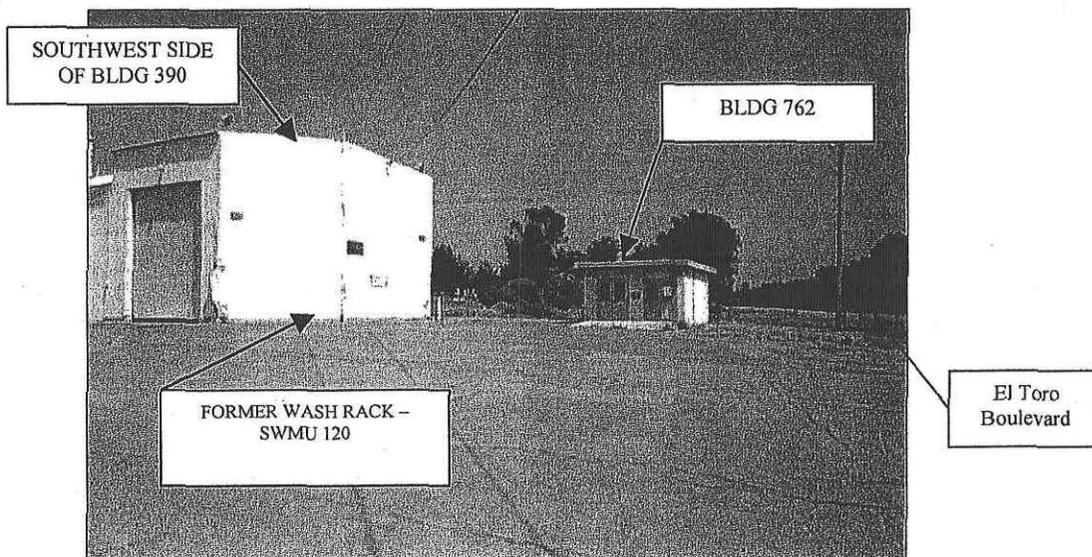
Map of Former Underground Storage Tank Sites 390A and 390B

Photograph 1. Building 390 Vicinity Looking East.
Phantom Solid Waste Management Unit (SWMU) 121 Vicinity.
Marine Corps Air Station, El Toro

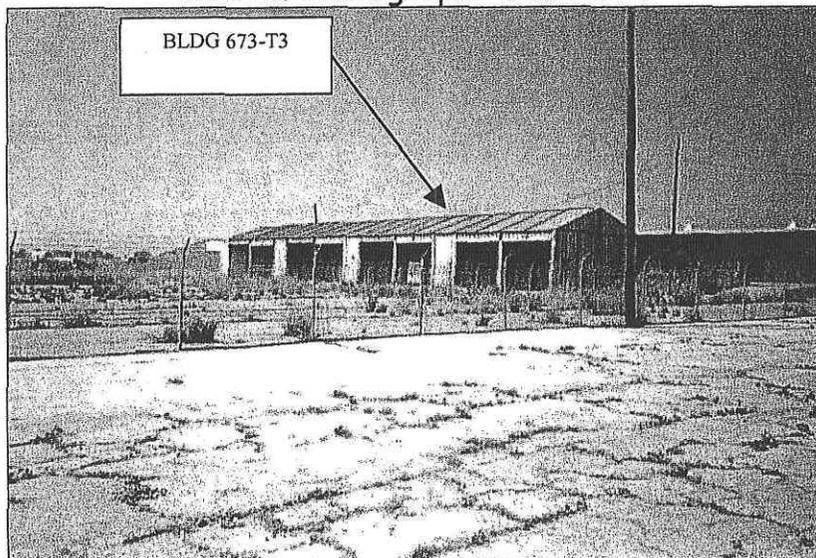
Date of Photograph: June 1999



Photograph 2. Building 390 and Building 762 Vicinity.
Phantom SWMU 121 Vicinity.
Marine Corps Air Station, El Toro
Date of Photograph: June 1999

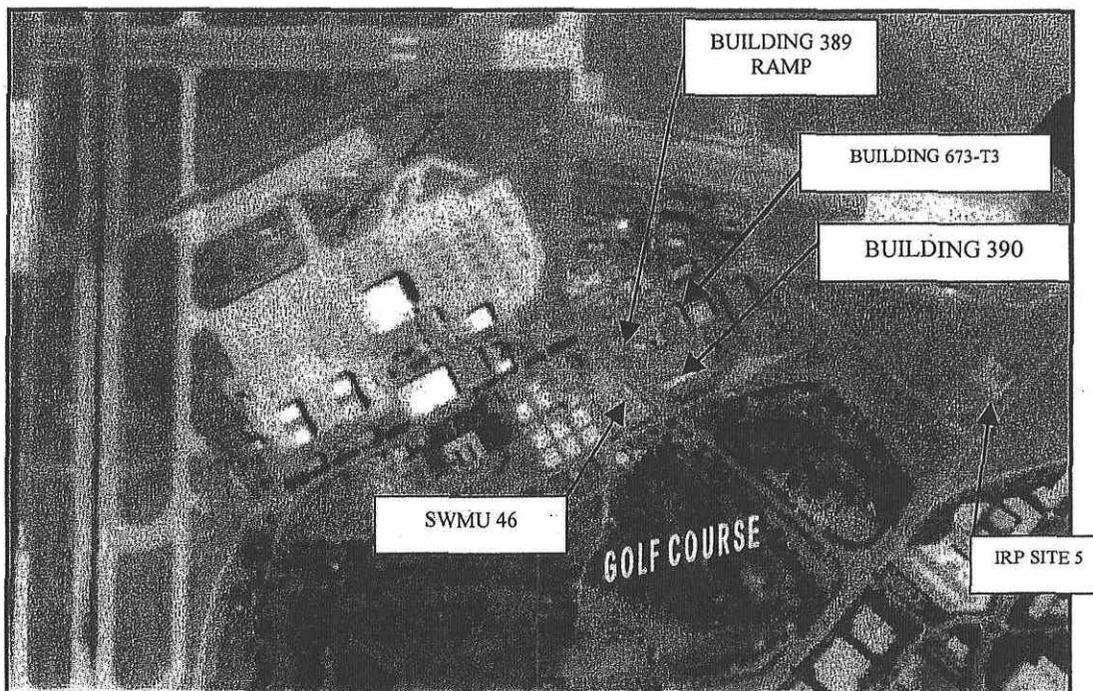


Photograph 3. View Looking Approximately North Toward
Building 673-T3 from Building 390 Parking Area.
Phantom SWMU 121 Vicinity.
Marine Corps Air Station, El Toro
Date of Photograph: June 1999



Photograph 4. Building 390 / Phantom SWMU 121 Vicinity.
Marine Corps Air Station, El Toro

Date of Photograph: 1994



CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SANTA ANA REGION
INDIANA AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92506
PHONE: (714) 782-4130

ML0050.001130



DUPLICATE

June 23, 1989

LTJG Michael Rehor, Environmental Director
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.

June 23, 1989

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
Kurt V. Berchtold
Supervising Engineer

cc: OCWD - Jim Reilly

TDP/mcaset2

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

EXTRACTS

PREPARED BY:
Southwest Division, Naval Facilities
Engineering Command
1225 Pacific Highway
San Diego, California 92132-5190

THROUGH:
CONTRACT #N68711-89-D-9296
CTD #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 121**

Name: Drum Storage Area

Location: Building 390

Size: Unknown

Date of Site Visit: 03 May 91

A DSA was identified near Building 390 in a letter from the RWQCB to Lt. Rehor, dated June 23, 1989. The area around Building 390 consists of a large, asphalt paved area. The entire area was visually surveyed during the visual site inspection, but the DSA could not be located.

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

| SWMU | SMWU 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 | 461 | | | | | |
| 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 | | | | | |

**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 |
|------|------------------------------|------------|-------------------------|----------|------|-----------|----------|----------------|
| 301 | Mark Arrest System | m | East side of Runway 34R | | | | | |
| 302 | Mark Arrest System | m | West side of Runway 34R | | | | | |
| 303 | Underground Storage Tank | m | 359 | | | | | |
| 304 | Trenches inside Building 359 | m | 359 | | | | | |
| 305 | Septic Tank | l | 601 | | | 2,000 gal | Concrete | Sanitary Waste |
| 306 | Septic Tank | l | 687 | | | 2,000 gal | Concrete | Sanitary Waste |
| 307 | Septic Tank | l | 819 | | 1986 | 2,200 gal | Concrete | Sanitary Waste |

NOTES:**(1) SOURCE:**

Current - Based on site visits Jan-Feb 1991

Past - Based on agency records review and miscellaneous records for MCAS El Toro as identified below:

- a - Regional Water Quality Control Board, letter to Lt. Rehor (June 23, 1989)
- b - SPCC map (no date)
- c - Department of Health Services, 1980 Photographs
- d - EPA, Region IX, Compliance Inspection Report, May 1987
- e - interview
- f - UST list EG & G Idaho, Inc., November 1990
- l - Department of Conservation, California Division of Oil and Gas, Long Beach
- j - Per MCAS El Toro List of Oil/Water Separators
- k - Observed during VSI
- l - Other
- m - Per Navy direction (added during SV)

(2) SWMU/AOC was not able to be accurately located and/or identified from the records review information and the site visits.

**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 |
|------|------------------------------|------------|-------------------|--|------|-------------|-------------------------|------------------------|
| 91 | Underground Storage Tank | f | 314 | Active | 1945 | 50,000 gal | Concrete | Waste Oil |
| 92 | Underground Storage Tank | f | 314 | Active | 1945 | 50,000 gal | Concrete | Waste Oil |
| 93 | Drum Storage Area | a,b | 317 | | | | | |
| 94 | Drum Storage Area | a,b | 320 | RI/FS Site | | | | |
| 95 | Engine Test Cell | a | 324 | | | | | |
| 96 | Drum Storage Area | a | 343 | Possible Duplicate of SWMU/AOC 107 or 242 | | | | |
| 97 | Drum Storage Area | a | 357 | | | | | |
| 98 | Vehicle Wash Rack | a | 359 | | | | | |
| 99 | Drum Storage Area | a | 359 | | | | | |
| 100 | TCE Degreasers | a | 359 | | | | | |
| 101 | Oil/Water Separator | f | 359 | Active | 1952 | 100 gal | Concrete | |
| 102 | Underground Storage Tank | f | 359 | Active | 1982 | 500 gal | Steel | Waste Stoddard Solvent |
| 103 | Drum Storage Area (2) | c | 359 | | | 120 sq ft | | |
| 104 | Drum Storage Area | b | 360 | RI/FS Site | | | | |
| 105 | Drum Storage Area | c | 360 | RI/FS Site | | | | |
| 106 | Drum Storage Area | c | 360 | RI/FS Site | | 5,076 sq ft | | |
| 107 | Hazardous Waste Storage Area | Active | 371 | | | | | |
| 108 | Underground Storage Tank | f | T-10 | Spill Containment Tank, Active | 1988 | 1,000 gal | Fiberglass-Coated Steel | Fuel Slop |
| 109 | Drum Storage Area (2) | b | 379 | | | | | |
| 110 | Vehicle Wash Rack | a | 386 | | | | | |
| 111 | Hazardous Waste Storage Area | Active, a | 386 | Duplicate of SWMU/AOC 223 | | | | |
| 112 | Oil/Water Separator | f | 386 | | 1982 | 100 gal | Steel | |
| 113 | Underground Storage Tank | f | 386 | Active | 1982 | 185 gal | Steel | Waste Oil |
| 114 | Drum Storage Area | c | 386 | Active | | 50 sq ft | | |
| 115 | Vehicle Wash Rack | a | 388 | Duplicate of SWMU/AOC 201 | | | | |
| 116 | Drum Storage Area | a,b | 388 | | | | | |
| 117 | Underground Storage Tank | f | 388 | Active, Identified as gasoline tank in VSI | 1955 | 2,000 gal | Steel | Waste Oil |
| 118 | Oil/Water Separator (2) | f | 388 | Active | 1955 | 100 gal | Steel | |
| 119 | Drum Storage Area | b | 389 | | | | | |
| 120 | Vehicle Wash Rack | a | 390 | | | | | |

7/14/93 1:30 PM

TABLE4-1.XLS



SWMU 119 is also known as TAA 389A.

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 | 461 | | | | | |
| 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 | | | | | |

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SWMU 122 is also known as TAA 390A.

TABLE4-1.XLS

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

| SWMU | SMWU TYPE | SOURCE (1) | LOCATION/BUILDING | COMMENTS | DATE | SIZE | MATERIAL | CONTENTS |
|------|------------------------------|------------|---------------------------|--|------|------|----------|----------|
| 241 | Drum Storage Area | k | 155 | | | | | |
| 242 | Hazardous Waste Storage Area | k | 371 | | | | | |
| 243 | Washrack | k | 96 | | | | | |
| 244 | PCB Spill Area | l | 457 | | | | | |
| 245 | Golf Course | l | 464 | | | | | |
| 246 | Golf Course Irrigation Tank | l | 459 | | | | | |
| 247 | Pipe Line | l | See Figure 1-2 of PR/VS I | From Sewage treatment plant to irrigation tank | | | | |
| 248 | Oil/Water Separator | k | 463 | | | | | |
| 249 | Underground Storage Tank | k | 463 | | | | | |
| 250 | Underground Storage Tank | k | 655 | | | | | |
| 251 | Drum Storage Area | k | 388 | | | | | |
| 252 | Hazardous Waste Storage Area | k | 398 | | | | | |
| 253 | Vehicle Washrack | k | 317 | | | | | |
| 254 | Drum Storage Area | k | 359 | | | | | |
| 255 | Hazardous Waste Storage Area | k | 606 | | | | | |
| 256 | Hazardous Waste Storage Area | k | 441 | | | | | |
| 257 | Wash Water Runoff Site | k | 575 | | | | | |
| 258 | Wash Water Runoff Site | k | 577 | | | | | |
| 259 | Drum Storage Area | k | 389 | | | | | |
| 260 | Aboveground Storage Tank | k | 389 | | | | | |
| 261 | Drum Storage Area | k | 390 | | | | | |
| 262 | Fuel Storage Area | k | 390 | | | | | |
| 263 | Underground Storage Tank | k | 374 | | | | | |
| 264 | Equipment Storage Area | k | DRMO LOT #3 | | | | | |
| 265 | Metal Plating Sewer Lines | l | See Figure 1-2 of PR/VS I | | | | | |
| 266 | Drum Storage Area | k | 765 | | | | | |
| 267 | Drop Tank Fuel Storage Area | k | 605 | | | | | |
| 268 | Vehicle Wash Rack | k | 240 | | | | | |
| 269 | Flammable Storage Locker | k | 314 | | | | | |
| 270 | Washrack | k | 817 | | | | | |

4-23

★
★

7/14/93 1:30 PM

★
SWMU 259 is also known as TAA 389B.

★
SWMU 261 is also known as TAA 390B.

TABLE4-1.XLS

M60050.000776 (1-2)
4/17/89 TDP ~~TTG~~

MCAS EL TORO

ADDITIONAL SITES NEEDING INVESTIGATION

Tom D Peltier

DUPLICATE

M60050.000776
MCAS El Toro

Test Cells 658 and 447

- 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

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

DUPLICATE

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

AUTHOR: SCS ENGINEERS

DATE: 11/01/79

CATEGORY: 1.2

EXTRACTS

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



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

Table 2. Hazardous Wastes Generated at El Toro Marine Base Activities

| <u>Activity</u> | <u>Hazardous Wastes*</u> | <u>ROM Quantity</u> |
|---|--------------------------|----------------------------------|
| Auto vehicle maintenance shops | 2, 3, 4 | 20,000 gal/yr |
| Aircraft maintenance hangers | 2, 3, 4 | 15,000 gal/yr |
| Equipment and other maintenance areas | 1, 2, 3, 4, 5, 10 | 2,000 gal/yr 100 batteries/yr |
| Painting and corrosion control | 2, 5 | 3,000 gal/yr |
| Public Works (pest and weed control) | 6 | 200 containers/yr |
| Aircraft defueling operations | 9 | 200,000-2,000,000 gal/yr |
| Oil/water separator and sump maintenance | 11 | 50,000 gal/yr |
| Station sick bay | 7 | Unknown |
| Miscellaneous aircraft-related activities | 8 | Unknown |

*Hazardous Waste Categories:

1. Waste chlorinated hydrocarbons
2. Waste organic solvents
3. Waste lubricating oil
4. Waste hydraulic or cutting oil
5. Paint wastes (such as slops, latex sludge, etc.)
6. Containers unless triple-rinsed, which have contained pesticides, herbicides, poisons, and other hazardous materials
7. Infectious wastes
8. Radioactive wastes
9. Contaminated fuels
10. Corrosive wastes
11. Detergents, oils, and water mixtures from oil/water separator and sump pump-outs

| SPCC Key Map Quadrant | Activity Description | Item Stored or Handled | Spill or Discharge* | Path to Waterway | Potential Impact | Improvements Required | Corrective Measures- Improvements (see notes) |
|-----------------------------|---|---------------------------|------------------------|--|---------------------|--------------------------|---|
| <u>Fueling Stations</u> | | | | | | | |
| R-4 | Tank Farm #2 Truck Fueling Stations (2) | Fuel oil #2 | S3 | SW to storm sewer new "J" St. to Bee Canyon Wash | Yes | Yes | (3) (10) Repair shut-off valves and fittings on swing arms. Repair leaky filters |
| N-7 | Tank Farm #4 (SW) Truck Fueling Station | Fuel oil #2 | S3 | SW over taxiway to storm sewer in runway N field - to Aqua Chinon Wash | Yes | Yes | (3) (10) |
| N-7 | Aircraft Dispensing Station | JP-4 | S3 | SW over taxing to storm sewer in runway in field - to Aqua Chinon Wash | Yes | Yes | (3) (10) |
| 84 M-7 | Tank Farm #4 (NE) Truck Fueling Stations (2) | Fuel Oil #1, Diesel | S3 | SW overland indirect to Aqua Chinon Wash | Yes | Yes | (3) (10) Plug drains on truck pad |
| N-10 | Tank Farm #5 Truck Fueling Stations (3 operational) (1 abandoned) | JP-5 | S3 | Directly to drains indirect via open ditch and storm sewer to Aqua Chinon Wash | Yes | Yes | (3) (10) Redirect drain pipes to oil-water separator. |
| N-10, 0-10 | Tank Farm #6 Truck Fueling Station (2) | Contaminated JP-5, MoGas | S3 | SW over taxiway indirect via storm sewer to Aqua Chinon Wash | Yes | Yes | (3) (10) |
| K-12 | Tank Farm #555 Truck Loading Stands | JP-5, JP-4 | S3 | SW to open ditch along Quarry Rd. Indirect to Borrego Canyon Wash | Yes | Yes | Construct curbing at either end of concrete trench |
| N-8 | Aircraft Direct Fueling Station #574 | JP-5 | S3 | Directly to drain to storm sewer to Aqua Chinon Wash | Yes | Yes | (4) |
| 0-8 | Aircraft Direct Fueling Station #575 | JP-5 | S3 | Directly to drain to storm sewer to Aqua Chinon Wash | Yes | Yes | (4) |
| 0-9 | Aircraft Direct Fueling Station #576 | JP-5 | S3 | Directly to drain to storm sewer to Aqua Chinon Wash | Yes | Yes | (4) |
| 0-9 | Aircraft Direct Fueling Station #577 | JP-5 | S3 | Directly to drain to storm sewer to Aqua Chinon Wash | Yes | Yes | (4) |

SPCC
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

| | | | | | | | |
|------|----------------------------------|----------------|----|---|-------|-----|-----|
| N-7 | Aircraft Maintenance Hanger #605 | JP-5, Lube oil | S2 | SW to storm sewers in apron to Aqua Chinon Wash | Minor | Yes | (9) |
| N-8 | Aircraft Maintenance Hanger #606 | JP-5, Lube oil | S2 | SW to storm sewers in apron to Aqua Chinon Wash | Minor | Yes | (9) |
| N-9 | Aircraft Maintenance Hanger #114 | JP-5, Lube oil | S2 | SW to storm sewers in apron to Aqua Chinon Wash | Minor | Yes | (9) |
| N-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) |

SPCC
Key Map
Quadrant

Activity Description

Item Stored
or Handled

Spill or
Discharge*

Path to Waterway

Potential
Impact

Improvements
Required

Corrective Measures-
Improvements (see notes)

Vehicle Maintenance Area

| | | | | | | | |
|------|------------------------------------|---------------------------------------|----|---|-------|-----|-------------------|
| M-3 | Auto Hobby Shop #625 | Lube oil, Hydraulic fluid, Misc. oils | S1 | SW to open ditch via oil-water separator to Rifle Range Rd. Ditch | Minor | No | |
| M-9 | Auto Organizational Shop #392 | Lube oil, Hydraulic fluid, Misc. oils | S1 | SW to storm sewer to Aqua Chinon Wash | Minor | No | |
| N-9 | Vehicle Equipment Shop #127 | Lube oil, Hydraulic fluid, Misc. oils | S1 | SW to storm sewer to Aqua Chinon Wash | Minor | No | |
| O-2 | Auto Exchange Repair Shop #651 | Lube oil, Hydraulic fluid, Misc. oils | S1 | SW indirect to Rifle Range Rd. Ditch | Minor | No | |
| P-5 | Auto Organizational Shop #5 | Lube oil, Hydraulic fluid, Misc. oils | S1 | SW indirect to Rifle Range Rd. Ditch | Minor | No | |
| P-12 | Ground Support Equipment Shop #673 | Lube oil, Hydraulic fluid, Misc. oils | S1 | N to drainage swale indirect to Aqua Chinon Wash | Minor | No | |
| P-13 | Auto Organizational Shop #390 | Lube oil, Hydraulic fluid, Misc. oils | S1 | SW indirect to Aqua Chinon Wash | Minor | No | |
| R-5 | Auto Organizational Shop #10 | Lube oil, Hydraulic fluid, Misc. oils | S1 | SW indirect via oil-water separator to Rifle Range Rd. Ditch | Minor | No | |
| U-7 | Auto Organizational Shop #655 | Lube oil, Hydraulic fluid, Misc. oils | S1 | Directly to floor drains to Bee Canyon Wash | Minor | Yes | Plug floor drains |
| U-7 | Auto Vehicle Maintenance Shop #298 | Lube oil, Hydraulic fluid, Misc. oils | S1 | SW to storm sewer to Bee Canyon Wash | Minor | No | |
| U-8 | Auto Organizational Shop #388 | Lube oil, Hydraulic fluid, Misc. oils | S1 | SW to indirect storm sewer to Bee Canyon Wash | Minor | No | |

Wash Areas

| | | | | | | | |
|-----|-------------------|--|---|--|-----|-----|-----|
| N-3 | Exchange Car Wash | Oily rinses, Detergents, Cleaning solvents | D | Directly to storm sewer via grease trap to Rifle Range Rd. Ditch | Yes | Yes | (4) |
|-----|-------------------|--|---|--|-----|-----|-----|

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| SPCC Key Map Quadrant | Activity Description | Item Stored or Handled | Spill or Discharge* | Path to Waterway | Potential Impact | Improvements Required | Corrective Measures- Improvements (see notes) |
|-----------------------------|---|--|------------------------|--|---------------------|--------------------------|--|
| M-3 | Auto Hobby Shop # 626 Wash Rack | Oily rinses, Detergents, Cleaning solvents | D | To seepage pit - overflow indirect to Rifle Range Rd. Ditch | Yes | Yes | (1) |
| M-9 | Auto Organizational Shop # 392 Wash Rack | Oily rinses, Detergents, Cleaning solvents | D | Directly to drain to Aqua Chinon Wash | Yes | Yes | (1) |
| N-9 | Vehicle Equipment Shop # 127 Wash Rack | Oily rinses, Detergents, Cleaning solvents | D | Directly to storm sewer via grease trap to Aqua Chinon Wash | Yes | Yes | (1) |
| O-2 | Auto Repair Shop #651 Steam Cleaning and Washing Area | Oily rinses, Grease | D | To sanitary sewer via oil-water separator | Minor | No | |
| P-5 | Auto Organizational Shop #5 Wash Rack | Oily rinses, Detergents, Cleaning solvents | D | SW to storm sewer and indirect to Rifle Range Rd. Ditch | Yes | Yes | (1) |
| P-12 | Ground Support Equipment Shop #673 Wash Rack | Oily rinses, Detergents, Cleaning solvents | D | Sanitary sewer via grease trap | Yes | Yes | (1) |
| P-13 | Auto Organizational Shop #390 Wash Rack | Oily rinses, Detergents, Cleaning solvents | D | Directly to drain to Aqua Chinon Wash | Yes | Yes | (1) |
| R-5 | Heavy Equipment Vehicle Wash Area | Oily rinses, Grease | D | SW to storm sewer via oil-water separator to Rifle Range Rd. Ditch | Minor | No | |
| T-7 | Construction Equipment Shop #386 Steam Cleaning Area | Oily rinses, Grease | D | Directly to drain to sanitary sewer system | Yes | Yes | Discontinue operation. Use new auto truck wash area for building #1589 |
| U-7 | Public Works Compound Vehicle Washing Area | Oily rinses, Detergents | D | Directly to storm sewer to Bee Canyon Wash | Yes | Yes | (4) |
| U-7 | Public Works Compound Vehicle Washing Area (SE) | Oily rinses, Detergents | D | Directly to drain via grease trap to Bee Canyon Wash | Yes | Yes | Discontinue operation. Consolidate with other PW compound wash area |

| <u>SPCC Key Map Quadrant</u> | <u>Activity Description</u> | <u>Item Stored or Handled</u> | <u>Spill or Discharge*</u> | <u>Path to Waterway</u> | <u>Potential Impact</u> | <u>Improvements Required</u> | <u>Corrective Measures- Improvements (see notes)</u> |
|--|--|--|--------------------------------|---|-----------------------------|----------------------------------|---|
| U-7 | Auto Vehicle Maintenance Shop #298 Steam Cleaning Area | Oily rinses, Greases | D | Directly to storm sewer via grease trap to Bee Canyon Wash | Yes | Yes | Discontinue operation. Consolidate with proposed washing area at Building #1589 |
| U-8 | Storage Building #359 Wash Area | Oily rinses, Greases | D | Directly to storm drain to Bee Canyon Wash | Yes | Yes | (1) |
| U-8 | Auto Organizational Shop #388 Wash Rack | Oily rinses, Greases, Cleaning Solvents | D | SE to storm sewer to Bee Canyon Wash | Yes | Yes | (1) |
| U-9 | Combat Ready Vehicle Storage Wash Area | Oily rinses, Detergents, Cleaning solvents | D | Directly to drain to Aqua Chinon Wash | Yes | Yes | (4) |
| N-7 | ACFT Wash Area Hanger #605 | Oily rinses, Detergents | D | To storm sewer via grease trap to Aqua Chinon Wash | Yes | Yes | (1) |
| N-8 | ACFT Hanger #606 Wash Area | Oily rinses, Detergents | D | Directly to storm sewer via grease trap to Aqua Chinon Wash | Yes | Yes | (1) |
| N-9 | ACFT Hanger #114 Wash Area | Oily rinses, Detergents | D | Directly to storm sewer via grease trap to Aqua Chinon Wash | Yes | Yes | (1) |
| Q-11 | ACFT Hanger #463 Wash Area | Oily rinses, Detergents | D | Directly to storm sewer via grease trap to Aqua Chinon Wash | Yes | Yes | (1) |
| R-11 | ACFT Hanger #461 Wash Area | Oily rinses, Detergents | D | Directly to storm sewer to Aqua Chinon Wash | Yes | Yes | (1) |
| S-9 | ACFT Hanger #295 Wash Area | Oily rinses, Detergents | D | Directly to storm sewer via grease trap to Bee Canyon Wash | Yes | Yes | (1) |
| T-8 | ACFT Hanger #297 Wash Area | Oily rinses, Detergents | D | Directly to storm sewer to Bee Canyon Wash | Yes | Yes | (1) (4) |
| <u>Hazardous and Flammable Storage</u> | | | | | | | |
| M-9 | Corrosion Control Building #130 Paint Shed (5 gal and smaller containers or racks) | Organics Paints Glycolether | SI | SW to storm sewer on 9th St. to Aqua Chinon Wash | No | No | |

| SPCC Key Map Quadrant | Activity Description | Item Stored or Handled | Spill or Discharge* | Path to Waterway | Potential Impact | Improvements Required | Corrective Measures- Improvements (see notes) |
|-----------------------------|--|---------------------------|------------------------|----------------------------|---------------------|--------------------------|--|
| M-9 | Hazardous and Flammable Storage #143 | Empty | N/A | SW to storm sewer | No | No | |
| O-4 | Hazardous and Flammable Storage #1808 (1 gal and qt. containers/on racks) | Solvents Mops | SI | SW overload - infiltration | No | No | |
| P-4 | Hazardous and Flammable Storage #1507 (5-gal drums on racks) | Paints Adhesive | SI | SW overload infiltration | No | Yes | Store all paints and adhesions within shed |
| P-4 | Hazardous and Flammable Storage #1528 (5 gal and smaller containers on racks) | Paints | SI | W overland - infiltration | No | No | |
| ∞ O P-10 | Hazardous and Flammable Storage #343 | Empty | N/A | Building to be destroyed | No | No | |
| P-12 | Hazardous and Flammable Storage #1789 | Training Aids | N/A | Building to be destroyed | No | No | |
| R-4 | Aero Club Facility Paint Shed (5 gal and smaller containers on racks) | Paints, Solvents | SI | SW overland - infiltration | No | No | |
| R-5 | Paint Shed #103 | Paints, Solvents | SI | SW overland - infiltration | No | No | |
| R-5 | Battery Shed #1519 | Batteries | SI | SW overland - infiltration | No | No | |
| R-11 | Hazardous and Flammable Storage | Guns, Ammunition | N/A | | No | No | |

SPCC
Key Map
Quadrant

06

| Activity Description | Item Stored or Handled | Spill or Discharge* | Path to Waterway | Potential Impact | Improvements Required | Corrective Measures-Improvements (see notes) |
|---|--------------------------------------|---------------------|--------------------------------------|------------------|-----------------------|---|
| R-11 MAG 13 Paint Sheds (1-gal and 1-qt containers) | Paints, Solvents | S1 | S overland - infiltration | Minor | Yes | Relocate paint shed away from storm sewer |
| S-5 Hazardous Material Storage Locker (1 gal jugs on racks) | Unidentified liquid mattresses | S1 | SW overland - infiltration | No | No | |
| T-6 Public Works Pesticide Storehouse (30-, 10-, 5- & 1-gal drums on racks) | Organics, Insecticides | N/A | Contained | No | No | |
| T-6 Hazardous and Flammable Storage #1596 (5- & 10-gal drums on racks) | Paints, Roofing Compound | S1 | SW overland - infiltration | Minor | Yes | Drums stored outside building should be moved inside on pallets |
| T-7 Public Works Capacitor and Transformer Storage Area (15 oil-filled transformers on concrete pad) | Transformer oil | S2 | SW to storm sewer to Bee Canyon Wash | Minor | Yes | Construct curbing around concrete pavement and provide drain outlet |
| U-6 Hazardous and Flammable Storage #534 (5-gal drums on pallets) | HCL | S1 | SW overland - infiltration | Minor | Yes | Construct curbing around entrance way |
| U-6 Hazardous Storage #493 (5- and 10-gal drums on pallets and racks) | Herbicides | S1 | W overland - infiltration | Minor | Yes | Construct curbing around entrance way |
| U-7 Hazardous and Flammable Storehouse #320 (5- and 10-gal drums on racks) | Organics, Solvents Trichloroethylene | S1 | Various inside building | Minor | Yes | Construct curbing around loading entrance |

| SPCC Key Map Quadrant | Activity Description | Item Stored or Handled | Spill or Discharge* | Path to Waterway | Potential Impact | Improvements Required | Corrective Measures- Improvements (see notes) |
|-----------------------------|---|-------------------------------|------------------------|---|--|------------------------------|--|
| U-9 | Hazardous and Flammable Storehouse #325 | Empty | S1 | SW overland - infiltration | No | No | |
| U-9 | Hazardous and Flammable Storage #357 (55-gal drums) | Cleaning Compound Solvents | S1 | SW to storm sewer to Bee Canyon Wash | Minor | Yes | Construct curbing around loading dock |
| <u>Miscellaneous</u> | | | | | | | |
| P-6 | Crash Crew Burn Pit | Waste oils | S3 | W to storm sewer to Bee Canyon Wash | Yes | Yes | (8) |
| U-5 | Bee Canyon Oil-Water Separator | Misc. waste oils | S2 | Directly to Bee Canyon Wash | Yes | Yes | (2) |
| V-10 | Aqua Chinon Oil-Water Separator | Misc. waste oils | S2 | Directly to Aqua Chinon Wash | Yes | Yes | (2) |
| 9 N-8 | Fixed Aircraft Start System Building #643 (Compressor Bleedoff) | Waste oils, Greases | S2 | Directly to storm sewer via oil-water separator to Aqua Chinon Wash | Minor | Yes | (1) |
| N-10 | Test Cell Building #658 | JP-5 | S1 | Directly to floor drain to Aqua Chinon Wash | Minor | Yes | (1) |
| Q-11 | Test Cell Building #447 | JP-5 | S1 | Directly to floor drain to Aqua Chinon Wash | Minor | Yes | (1) |
| M-9 | Corrosion Control Hanger #130 Water Wall Paint Spray Booth | Paints | D | Directly to storm sewer to Aqua Chinon Wash | Minor (however, not presently in operation) | Yes | (1) |
| T-6 | Public Works Shop #370 Water Wall Paint Spray Booth | Paints | D | Directly to storm sewer to Bee Canyon Wash | Minor - if reactivated | None - unless reactivated | |

| <u>SPCC Key Map Quadrant</u> | <u>Activity Description</u> | <u>Item Stored or Handled</u> | <u>Spill or Discharge*</u> | <u>Path to Waterway</u> | <u>Potential Impact</u> | <u>Improvements Required</u> | <u>Corrective Measures- Improvements (see notes)</u> |
|--------------------------------------|---|---|--------------------------------|--|-----------------------------|----------------------------------|--|
| U-8 | Corrosion Control Building #359 (Paint shop and 2 degreasing tanks) | Paints, Trichloroethylene | S3 | Various in building | Minor | No | |
| U-9 & U-10 | Refueling Vehicle Maintenance Facility #672 - Vehicle Fuel Tank Cleaning Area | JP-5 JP-4 AV-Gas | D | Directly to storm sewer via oil-water separator to Aqual Chinon Wash | Yes | Yes | (1) |
| U-9, U-10 | Refueling Vehicle Maintenance Facility #672 - Vehicle Storage Area | JP-5 JP-4 AV-Gas Misc. oil Greases | S3 | W to storm sewer to Aqua Chinon Wash | Yes | Yes | (4) |
| Various Locations | 55-gal drum heating oil (1 drum mounted horizontally on rack) | Heating oil | S2 | Various - infiltration | Minor | No | |
| M-3 | 55-gal drums NE of Building #626 and Vehicle Maintenance Area Building #625 | Lube oil Grease | S2 | SW to oil-water separator indirect to Rifle Range Road Ditch | Minor | Service | Pump out oil-water separator regularly |
| M-9 | 55-gal drum storage NE of Building #392 | Lube oil, Misc. oil Solvents Hydraulic fluid | S2 | W and SW to storm sewer to Aqua Chinon Wash | Yes | Yes | (5)(6) |
| M-9 | 55-gal drum storage SE of Building #602 | Methyl chloroform | S2 | SW overland - infiltration | Yes | Yes | (7) |
| M-9 | (8) 55-gal drums W of Building #130 | Cleaning compound, Misc. oils | S2 | W to storm sewer to Aqua Chinon Wash | Yes | Yes | (7) |
| O-8 | (3) 55-gal drums SW of Building #1793 | Misc. oils | S2 | SW to storm sewer to Aqua Chinon Wash | Yes | Yes | (5)(6) |
| P-5 | 55-gal drum storage NE of Building #5 | Lube oil, Hydraulic fluid, Misc. oils | S2 | W overland indirect to Rifle Range Road Ditch | Yes | Yes | (5)(6) |

| SPCC Key Map Quadrant | Activity Description | Item Stored or Handled | Spill or Discharge* | Path to Waterway | Potential Impact | Improvements Required | Corrective Measures- Improvements (see notes) |
|-----------------------------|---|--|------------------------|---|---------------------|--------------------------|--|
| P-5 | Vehicle and generator storage area SW and NE of Building #5 | MoGas, Misc. oils, Grease | S2 | SW to storm sewer or indirect to Rifle Range Road Ditch | Minor | Yes | (9) |
| P-12 | 55-gal drum storage SW of Building #673 | Lube oil, Cleaning compounds | S2 | S to low spot-infiltration | Yes | Yes | (5)(6) |
| P-12 | Vehicle storage area E of Building #673 | Misc. oils, Greases | S2 | NE indirect via open ditch to Aqua Chinon Wash | Yes | Yes | (4) |
| P-12 | 55-gal drum storage at unloading Rack #388 | Lube-oil, Hydraulic fluid | S2 | SW to storm sewer to Aqua Chinon Wash | Yes | Yes | (5)(6) |
| R-4 | 55-gal drum storage SW of Building #10 | Lube oil, Hydraulic fluid, Freon | S2 | W and SW indirect to Rifle Range Road Ditch | Yes | Yes | (5)(6) |
| 03 R-5 | Vehicle storage area SW of Building #10 | Lube oil, Grease | S2 | SW to oil-water separator to Rifle Range Road Ditch | Minor | No | |
| R-11 | 55-, 10-and 5-gal drum storage between Buildings #454 and 456 | Misc. oils, Paints, Solvents, Freon | S2 | E to storm sewer to Bee Canyon Wash | Yes | Yes | (5)(6) |
| R-11 | (10) 55-gal drums NE of Building #461 | Lube oil | S2 | SW to storm sewer to Aqua Chinon Wash | Yes | Yes | (7) |
| R-11 | (6) 55-gal drums S of Building #1684 | Lube oil | S2 | SW to storm sewer to Aqua Chinon Wash | Yes | Yes | (7) |
| S-4 | (12) 55-gal drums and (12) 10-gal containers SW corner Tank Farm #2 | Waste oil, Germicidal disinfectants | S2 | W to storm sewer to Bee Canyon Wash | Yes | Yes | (7) |
| S-4 | (6) 55- gal drums SW of Building #29 | Lube oil, Waste oil | S2 | SW overland - infiltration | Yes | Yes | (7) |
| S-8 | 55- gal drum storage N of Hanger #295 | Lube oil, Hydraulic fluid, Cleaning compound | S2 | Directly to storm sewer to Aqua Chinon Wash | Yes | Yes | (5)(6) |

| SPCC Key Map Quadrant | Activity Description | Item Stored or Handled | Spill or Discharge* | Path to Waterway | Potential Impact | Improvements Required | Corrective Measures- Improvements (see notes) |
|-----------------------------|---|---|------------------------|--|---------------------|--------------------------|--|
| T-7 | 55-gal drum storage area 500-gal Bowser NE of Building #386 | Lube oil, Waste oil | S2 | W to storm drain to sani- tary sewer system | Yes | Yes | (5)(6)(7) |
| U-6 | (5) 55-gal drums NW of Building #529 | Lube oil, Hydraulic fluid | S2 | SW overland - infiltration | Yes | Yes | (7) |
| U-7 | (10) 55-gal drums on Building #298 wash pad | Lube oil, Waste oil | S2 | Directly to storm drain to Bee Canyon Wash | Yes | Yes | (7) |
| U-7 | 55-gal drum storage area NE of Building #317 | Paints, Petroleum distillery, Cleaning solvents | S2 | SW to storm sewer to Bee Canyon Wash | Yes | Yes | (5)(6) |
| U-7 | 55-gal drum storage area NW of Building #320 | Lube oil, Hydraulic fluid, Cleaning solvents | S2 | NE overland indirect via swale to Bee Canyon Wash | Yes | Yes | (7) |
| 94 U-7 | 55-gal drum storage S of Building #534 | Lube oil, Cleaning compound, Hydraulic fluid | S2 | E and SW to storm sewer to Bee Canyon Wash | Yes | Yes | (7) |
| U-7 | Corrosion control rack at Building #655 | Undercoating, Lube oil, Hydraulic fluid | S2 | Directly to storm drain to Bee Canyon Wash | Yes | Yes | (4) |
| U-8 | 55-gal drum storage N and W of Building #655 Dempsey Dumpster | Lube oil, Waste oil, Hydraulic fluid | S2 | SW to drainage swale to storm sewer to Bee Canyon Wash | Yes | Yes | (7) |
| U-8 | 55-gal drum storage NE of Building #655 | Undercoating, Waste oil, Cleaning compound | S2 | SW to storm sewer to Bee Canyon Wash | Yes | Yes | (5)(6) |
| U-8 | (12) 55-gal drums NE of Building #388 | Lube oil, Hydraulic fluid | S2 | S to storm sewer to Bee Canyon Wash | Yes | Yes | (7) |
| U-8 | (5) 55-gal drums E of Building #359 | Waste oil, Lube oil, Hydraulic fluid, Solvents | S2 | NW to storm sewer to Bee Canyon Wash | Yes | Yes | (7) |

| SPCC Key Map Quadrant | Activity Description | Item Stored or Handled | Spill or Discharge* | Path to Waterway | Potential Impact | Improvements Required | Corrective Measures- Improvements (see notes) |
|-----------------------------|---|---|------------------------|---|---------------------|--------------------------|--|
| U-9 | (11) 55-gal drums E of Building #631 | Lube oil, Waste oil | S2 | SW overland indirect to Bee Canyon Wash | Yes | Yes | (7) |
| U-9 | 55-gal drum storage in Salvage Yard | Waste oils, Misc. oils, Hydraulic fluid, Lube oil | S2 | W to drainage swale to Bee Canyon Wash | Yes | Yes | (5)(6) |
| U-9 | 55-gal drum storage SW Building #1749 | Waste oils, Lube oil | S2 | SW to storm sewer to Aqua Chinon Wash | Yes | Yes | (5)(6) |
| U-9 | Leak in storm sewer line SE corner of Combat Ready Vehicle Storage Compound | Sewage containing oils and grease | D | SE overland to Aqua Chinon Wash | Yes | Yes | Repair leak in sewer line. |

* S = Potential Spill Source (1 = 0-10 gal, 2 = 10-100 gal, 3 = 100-1000 gal, 4 = greater than 1000 gal).
 D = Active Source of Discharge

1. Environmental Pollution Abatement Project P-325 should be implemented.
2. Inspect and provide necessary maintenance to insure proper operation.
3. Construct impervious berm or curbing around facility and direct drainage to sump or oil-water separator with sufficient capacity to contain maximum spill.
4. Provide an oil water separator system to treat discharges prior to release into waterways.
5. Provide centralized 55-gal drum storage with secondary containment at strategic points around the base. Issue memorandum to tenants on base requiring stricter drum inventories.
6. Provide shelter over facility to eliminate rain water infiltration.
7. Position storage containers and/or drums, within pens with secondary containment.
8. Construct permanent concrete crash crew pit with secondary containment and oil-water separator.
9. Discontinue spill washdown operations unless emergency situation exists - contain and control spills with absorbent materials.
10. Provide adequate lighting at facility.

Final

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

August 1994

EXTRACTS

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



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Prepared by:

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

TABLE 6-1
 GENERATORS OF HAZARDOUS WASTE
 AT MCAS EL TORO

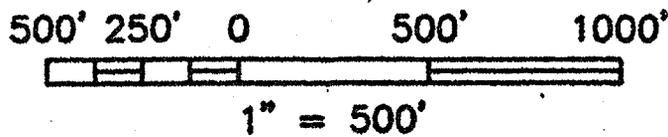
Aero Club
 Armory
 Auto Hobby Shop
 Combat Service Support Detachment 14 (CSSD 14)
 Facilities Maintenance Department Shops, Bldg. 1601 (FMD)
 Headquarters & Headquarters Squadron 38 (H&HS 38)
 Marine Aerial Refueler/Transport Squadron 352 (VMGR 352)
 Marine Air Control Group 38 (MACG 38)
 Marine Aircraft Group 46 (MAG 46)
 Marine Aircraft Group 46 (MAG 46), Fixed Wing
 Marine Aircraft Group 46 (MAG 46), Helo Mals 11
 Marine All Weather Fighter Attack Squadron 121 (VFMA (AW) 121)
 Marine All Weather Fighter Attack Squadron 225 (VFMA (AW) 225)
 Marine All Weather Fighter Attack Squadron 242 (VFMA (AW) 242)
 Marine Aviation Logistics Squadron 11 (MALS 11), Air Frames
 Marine Aviation Logistics Squadron 11 (MALS 11), Avionics
 Marine Aviation Logistics Squadron 11 (MALS 11), Cryogenics
 Marine Aviation Logistics Squadron 11 (MALS 11), GSE North
 Marine Aviation Logistics Squadron 11 (MALS 11), Ordnance
 Marine Aviation Logistics Squadron 11 (MALS 11), Power Plant
 Marine Aviation Logistics Squadron 11 (MALS 11), Supply
 Marine Fighter Attack Squadron 314 (VFMA 314)
 Marine Fighter Attack Squadron 323 (VFMA 323)
 Marine Fighter Attack Training Squadron 101 (VFMA 101)
 Marine Wing Headquarters Squadron 3 (MWHS 3)
 Marine Wing Support Squadron 373 (MWSS 373), Headquarters
 Marine Wing Support Squadron 373 (MWSS 373), Refuelers
 Marine Wing Support Squadron Utilities (MWSS Utilities)
 Maytag Aircraft Corporation
 MOD Team
 Morale, Welfare & Recreation Department (MWR), Auto #1
 Morale, Welfare & Recreation Department (MWR), Golf Course ←
 Motor Pool (G-4) Bldg. 770
 Photolab
 Squadron Operations & Maintenance Squadron (SOMS), Headquarters
 Squadron Operations & Maintenance Squadron (SOMS), Maintenance
 Squadron Operations & Maintenance Squadron (SOMS), Recovery
 Supply

- ▲ HAZARDOUS MATERIALS STORAGE
- HAZARDOUS WASTE ACCUMULATION POINT
- ONE YEAR PERMITTED HAZARDOUS WASTE STORAGE AREA

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 | .. |
| MALS-11 Ordnance | 67 | .. |
| MALS-11 Power Plant | 651 | .. |
| MALS-11 Power Plant | 634 | .. |
| MALS-11 Supply | 441 | .. |
| Maytag Aircraft Corp | 779 | .. |
| MOD Team | 115 | .. |
| Motor Pool (G-4), Bldg 770 | 386 | .. |
| 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 | 288 | 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 |

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

★ TAAs 389A & 389B and 390A & 390B are located near Building 390.



MAYTAG AIRCRAFT
CORP

MALS-11 SUPPLY

MALS-11
ORDINANCE

AT-101

MWR GOLF COURSE

MALS-11
AVIONICS

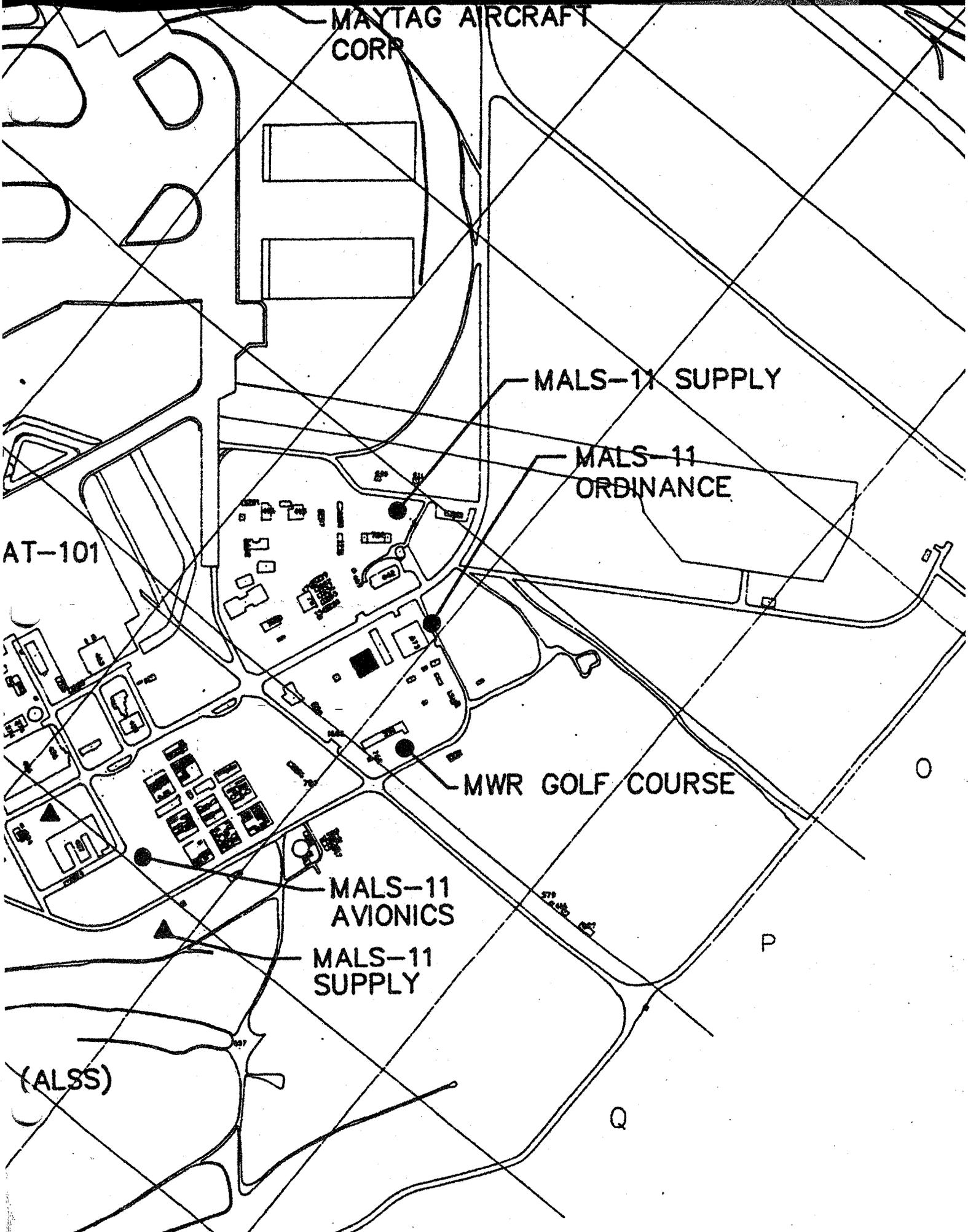
MALS-11
SUPPLY

(ALSS)

P

Q

O



Final

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

August 1994

Appendices A - G



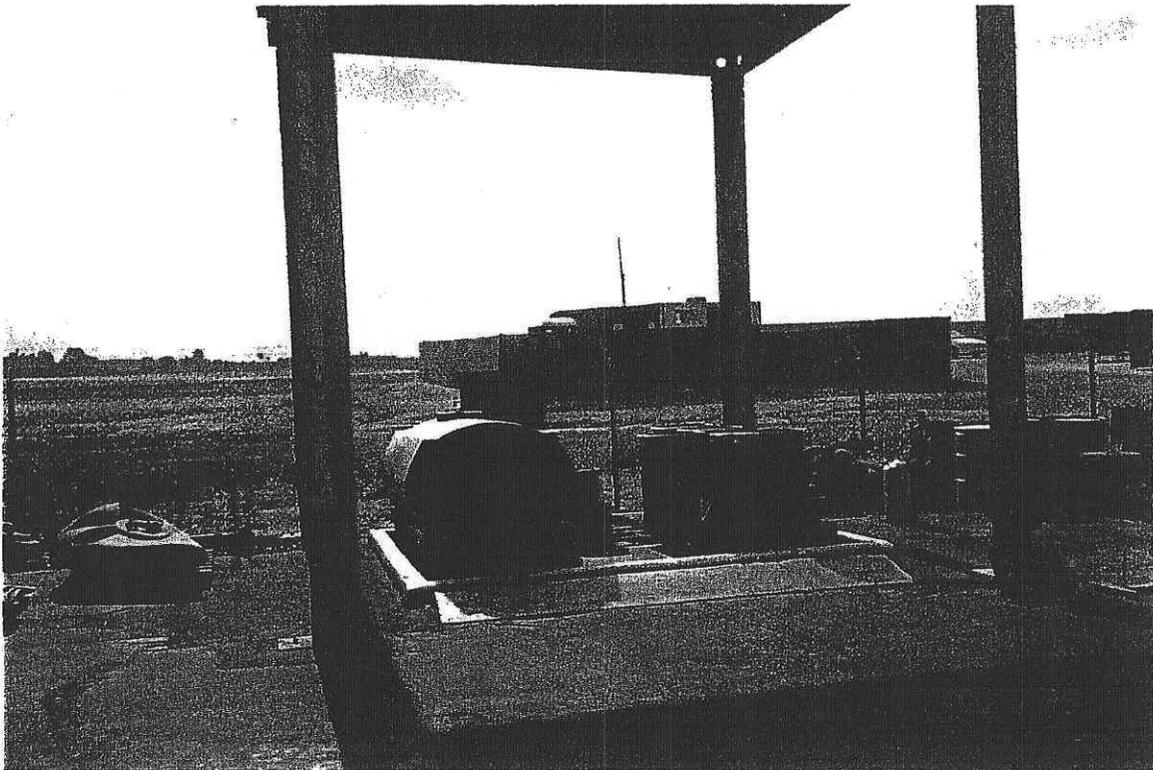
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Marine Aviation Logistics Support Squadron 11 (MALS11), Supply

Bldg 441



Morale, Welfare & Recreation Department (MWR), Golf Course

Bldg 390



EXTRACTS

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

FOR

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

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

VOLUME 1

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

JULY, 1997

INTEGRATED ENVIRONMENTAL MANAGEMENT, INC.

5.9 DRAINAGE BASIN 9

This drainage basin has an area of about 103 acres. This is an agricultural area, and there were no industrial pollutants or activities observed which are tributary to the storm drains. For agricultural operations, MCAS should conduct a non-point source survey and monitoring program to assess potential contributions of pollutants in storm water run-off.

5.10 DRAINAGE BASIN 10

This drainage basin comprises most of the buildings in Areas 14 and 19. It has an area of about 138 acres. This area is mainly residential and agricultural.

5.10.1 Buildings of Limited Concern

The following buildings do not use, handle, transport, or store significant amounts of liquid or solid pollutants, and they do not appear to be of concern to the quality of storm water discharges:

| BLDG # | DESCRIPTION | TENANT |
|--------|-------------------------------------|------------------|
| 172 | Inert Storehouse | Vacant |
| 416 | Storage Building | FAA |
| 579 | General Storage Shed | Installation |
| 627 | Transmitter Building | Station |
| 772* | Hazardous Waste Collection Facility | Environment |
| 835 | Gate #3 Sentry House | PMO |
| 841 | Open Ammunition Storage Pad | Station Ordnance |
| 843 | Tactical Support Van Pad | MAG-11 |

* Buildings with an asterisk indicate facilities which were not involved in any industrial activities or did not

5.10.2 Buildings of Concern

The following buildings or facilities use or otherwise deal with industrial materials and therefore are considered to be of concern as potential sources of pollution to the storm water system. In some cases, this potential is limited; however, best management practices are suggested in all instances where the potential was noted.

Building 389 - Loading/Unloading Ramp - Station

Industrial activities at this site include vehicle maintenance and storage. Potential pollutants in the area included aerosol paints, grease and oil and antifreeze. There was a parking area where maintenance on bomb holders takes place. Chemicals were stored in a covered outdoor storage area, which had a secondary containment berm.

BMP recommendations are to install a spill kit, and develop and implement a SPCCP. Personnel may need training in spill response techniques.

Building 390 - Golf Cart Maintenance - MWR



Activities at this site include equipment repair and vehicle washing. Above ground fuel tanks are located within a bermed area. A wash rack is also present which drains to an oil/water separator (#390/762). The oil/water separator has recently been repaired. Outdoor storage of motorized landscaping equipment is also located at the site. Potential pollutants include unleaded gasoline, waste oil and vehicle wash waste. The floors are washed with soap and water. A spill cleanup kit and SPCCP are present and personnel have been trained in spill response techniques.

Recommended BMPs are to replace wet washing of interior floors with dry sweeping. The oil/water separator should then be routinely inspected and maintained in accordance with the manufacturer's specifications to ensure proper operation.

Building 673 - Aircraft Ground Support Equipment Shop - MALS-16

Industrial activities at this facility include vehicle maintenance. A concrete bermed wash rack with a canopy is

storage area with a concrete secondary containment berm and a canopy is located near Building 673.

Existing BMPs include a SPCCP, spill kits, and dry sweeping. Personnel should be trained in spill response techniques. No additional BMPs are recommended at this time.

Building 762 - Vehicle Wash Rack Utility Bldg - MWSG-37

This wash rack is adjacent to Building 390. Refer to the discussion of Building 390 for information about this wash rack.

5.10.3 Summary of Potential Pollutants

The following pollutants pose a potential threat to storm water quality in Drainage Basin 10.

| | | | |
|--------------------|------------|---------------|------------------------|
| aerosol | antifreeze | corrosives | hydraulic fuel |
| grease | paint | paint thinner | petrochemical products |
| vehicle wash waste | waste oils | diesel | unleaded gasoline |
| jet fuel | | | |

5.10.4 Summary of Best Management Practices

The following BMPs are general management practices for the control or prevention of storm water pollution associated with activities at MCAS El Toro. These BMPs have been formulated based on the existing conditions at the various buildings and facilities throughout MCAS El Toro, as described above. Table 5-12 lists the existing and recommended BMPs for each building located within the drainage basin.

TABLE 5-12
BASIN 10
SUMMARY OF BMPs

| BLDG # | BASIN | BUILDING DESCRIPTION | TENANT | Concern Level | BMP STATUS | BMP # | BMP Description |
|--------|-------|-----------------------------------|--------------|---------------|------------|-------|---|
| 172 | 10 | Inert Storehouse | Vacant | Limited | | | No Additional BMPs Recommended |
| 389 | 10 | Loading/Unloading Ramp | Station | Concern | Rec | 009 | Personnel Training |
| | | | | | Rec | 112 | Prepare Appropriate Spill Prevention and Response Plans |
| | | | | | Rec | 065 | Place Spill Kit in Area |
| 390 | 10 | Golf Cart Shop | MWR | Concern | Rec | 012 | Construct Berm or Dike Around Critical Areas |
| | | | | | Rec | 110 | Regularly Inspect and Maintain Storm Water Conveyance Systems |
| | | | | | Rec | 004 | Avoid Hosing Down the Site |
| | | | | | Rec | 005 | Provide Regular Sweeping of Floor/Lot |
| 416 | 10 | Storage Building | FAA | Limited | | | No Additional BMPs Recommended |
| 579 | 10 | General Storage Shed | Installation | Limited | | | No Additional BMPs Recommended |
| 627 | 10 | Transmitter Building | Station | Limited | | | No Additional BMPs Recommended |
| 673 | 10 | Ground Support Equipment Shop | MALS-16 | Concern | Rec | 009 | Educate Personnel |
| | | | | | Existing | 112 | Spill Prevention, Control, Countermeasures Plan |
| | | | | | Existing | 012 | Construct Berm or Dike Around Critical Areas |
| | | | | | Existing | 001 | Label all Drums, Cans, Containers, Tanks, and Valves |
| | | | | | Existing | 065 | Place Spill Kit in Area |
| 762 | 10 | Vehicle Washrack Utility Building | MWSG-37 | Concern | Rec | 0012 | Construct Berm or Dike Around Critical Areas |
| | | | | | Existing | 110 | Regularly Inspect and Maintain Storm Water Conveyance Systems |

TABLE 5-12
BASIN 10
SUMMARY OF BMPs

| BLDG # | BASIN | BUILDING DESCRIPTION | TENANT | Concern Level | BMP STATUS | BMP # | BMP Description |
|--------|-------|-------------------------------------|------------------|---------------|------------|-------|---------------------------------------|
| | | | | | Rec | 004 | Avoid Hosing Down the Site |
| | | | | | Rec | 005 | Provide Regular Sweeping of Floor/Lot |
| 772 | 10 | Hazardous Waste Collection Facility | Environment | Previous | | | No Additional BMPs Recommended |
| 835 | 10 | Gate #3 Sentry House | PMO | Limited | | | No Additional BMPs Recommended |
| 841 | 10 | Open Ammunition Storage Pad | Station Ordnance | Limited | | | No Additional BMPs Recommended |
| 843 | 10 | Tactical Support Van Pad | MAG-11 | Limited | | | No Additional BMPs Recommended |

TABLE 5-39
MCAS EL 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. Spill 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 its 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 Chionon. |
| 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."

TABLE 7-1
MCAS EL TORO MATERIALS INVENTORY

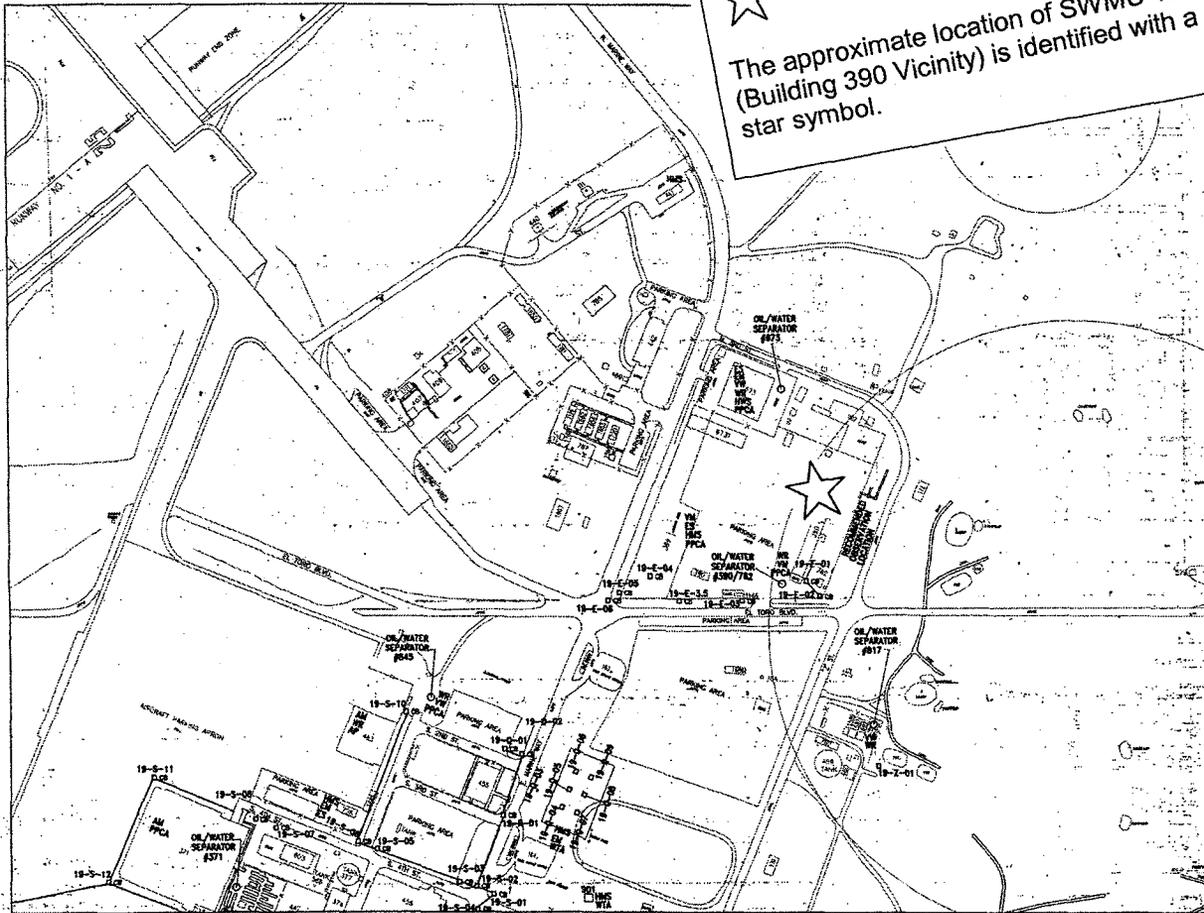
| BLDG # | BASIN | BUILDING DESCRIPTION | TENANT | Concern Level | TRADE/COMMON NAME | MAX. DAY | AVE. Day | CONT. |
|--------|-------|--------------------------|--------------|---------------|----------------------------|-----------|----------|----------|
| 371 | 37 | Maint Hngr Space | VMFAT-101 | Concern | Waste Oil | N/A | N/A | N/A |
| 374 | 37 | Conversion Station | Installation | Concern | N/A | | | |
| 386 | 01 | Const. Equip Shop | Installation | Concern | Diesel Fuel | N/A | N/A | N/A |
| 386 | 01 | Const. Equip Shop | Installation | Concern | Gear Oil | N/A | N/A | N/A |
| 386 | 01 | Const. Equip Shop | Installation | Concern | Hydraulic Oil | N/A | N/A | N/A |
| 386 | 01 | Const. Equip Shop | Installation | Concern | Solvents | N/A | N/A | N/A |
| 386 | 01 | Const. Equip Shop | Installation | Concern | Waste Oil | N/A | N/A | N/A |
| 388 B | 01 | UST - Field Maint Area | CSSD-14 | Concern | Diesel Fuel No. 2 | 18000 gal | 1000 gal | 2000 gal |
| 388 | 01 | Field Maint Shop | CSSD-14 | Concern | Jet Fuel JP-5 | N/A | N/A | 55 gal |
| 388 | 01 | Field Maint Shop | CSSD-14 | Concern | Waste Oil | N/A | N/A | 55 gal |
| 389 | 10 | Loading/Unloading Ramp | Station | Concern | Aerosol Paint | N/A | N/A | N/A |
| 389 | 10 | Loading/Unloading Ramp | Station | Concern | Antifreeze | N/A | N/A | N/A |
| 389 | 10 | Loading/Unloading Ramp | Station | Concern | Grease | N/A | N/A | N/A |
| 389 | 10 | Loading/Unloading Ramp | Station | Concern | Lubricating Oil | N/A | N/A | N/A |
| 390 A | 10 | Tank - Golf course maint | MWR | Concern | Diesel Fuel No. 2 | 500 gal | 250 gal | 500 gal |
| 390 B | 10 | Tank - Golf course maint | MWR | Concern | Gasoline, Regular Unleaded | 500 gal | 250 gal | 500 gal |
| 390 | 10 | Golf Cart Shop | MWR | Concern | Waste Oil | N/A | N/A | N/A |

**TABLE 7-1
 MCAS EL TORO MATERIALS INVENTORY**

| BLDG # | BASIN | BUILDING DESCRIPTION | TENANT | Concern Level | TRADE/COMMON NAME | MAX. DAY | AVE. Day | CONT. |
|--------|-------|-------------------------------|--------------|---------------|-------------------|----------|----------|--------|
| | | Shop | | | | | | |
| 673 | 10 | Ground Support Equipment Shop | MALS-16 | Concern | Grease | N/A | N/A | N/A |
| 673 | 10 | Ground Support Equipment Shop | MALS-16 | Concern | Lubricating Oil | N/A | N/A | N/A |
| 674 | 01 | Oil/Water Separator | Installation | Concern | N/A | | | |
| 675 | 02 | Oil/Water Separator | Installation | Concern | N/A | | | |
| 676 | 30 | Community Storage Misc. | Housing | Concern | N/A | | | |
| 693 | 26 | OFT (KC-130) | Training | Concern | N/A | N/A | N/A | 55 gal |
| 713 | 30 | Haz/Flam Storehouse | MAG-11 | Concern | Aerosol | N/A | N/A | N/A |
| 713 | 30 | Haz/Flam Storehouse | MAG-11 | Concern | Cleaner | N/A | N/A | N/A |
| 713 | 30 | Haz/Flam Storehouse | MAG-11 | Concern | Clorox Bleach | N/A | N/A | N/A |
| 713 | 30 | Haz/Flam Storehouse | MAG-11 | Concern | Insecticide | N/A | N/A | N/A |
| 713 | 30 | Haz/Flam Storehouse | MAG-11 | Concern | Lacquer | N/A | N/A | N/A |
| 713 | 30 | Haz/Flam Storehouse | MAG-11 | Concern | Paints | N/A | N/A | N/A |
| 713 | 30 | Haz/Flam Storehouse | MAG-11 | Concern | Thinner | N/A | N/A | N/A |
| 716 | 07 | Hush House | MALS-11 | Concern | N/A | | | |
| 717 | 01 | Crash, Fire, Rescue | Sta/G-3 | Concern | Aerosol Paints | N/A | N/A | N/A |

| TABLE 7-1. MCAS EL TORO MATERIALS INVENTORY | | | | | | | | |
|--|-------|-----------------------------------|---------------------|---------------|---------------------------------|----------|----------|----------|
| BLDG # | BASIN | BUILDING DESCRIPTION | TENANT | Concern Level | TRADE/COMMON NAME | MAX. DAY | AVE. Day | CONT. |
| 730 | 24 | UST-Communications Center | Station/G-6 | Concern | Diesel Fuel No. 2 | 1000 gal | 500 gal | 1000 gal |
| 726 #13 | 37 | HM Storage | VMFAT-101 | Concern | Hydraulic fluid, fire resistant | 78 gal | 36 gal | 1 gal |
| 744 | 26 | Armory Small Arms Shop | MWSS-373 CSSD-14 | Concern | Cleaner | N/A | N/A | N/A |
| 746 | 08 | Flight Simulator | Training | Concern | Lubricating Oil | N/A | N/A | 5 gal |
| 753 | 01 | Pest Control Bldg | Installation | Concern | N/A | | | |
| 755 | | Tank | Station | | Liquid Nitrogen | 2000 gal | 1000 gal | 20000gal |
| 758 | 01 | Vehicle Washrack Utility Building | MWSG-37 | Concern | N/A | | | |
| 761 | 37 | ACFT Washrack Utility Building | MAG-11 | Concern | N/A | | | |
| 762 | 10 | Vehicle Washrack Utility Building | MWSG-37 | Concern | N/A | | | |
| 763 | 08 | ACFT Washrack Utility Building | MAG-11 | Concern | N/A | | | |
| 764 | 08 | Vehicle Washrack Utility Building | MALS-11 | Previous | N/A | | | |
| 765 | 22 | Vehicle Washrack Utility Building | MWSS-371 | Concern | N/A | | | |

| BLDG # | BASIN | BUILDING DESCRIPTION | TENANT | Concern Level | TRADE/Common Name | MAX. DAY | AVE. Day | CONT. |
|---------------|--------------|-----------------------------------|------------------------|----------------------|--------------------------|-----------------|-----------------|--------------|
| 766 | 22 | Vehicle Washrack Utility Building | Aero Club | Concern | N/A | | | |
| 769 | 01 | HW Collection Facility | Environment | Concern | N/A | | | |
| 770 | 01 | HW Collection Facility | Environment | Concern | Aerosol | N/A | N/A | N/A |
| 770 | 01 | HW Collection Facility | Environment | Concern | Aerosol Spray Paint | N/A | N/A | N/A |
| 770 | 01 | HW Collection Facility | Environment | Concern | Cleaner | N/A | N/A | N/A |
| 770 | 01 | HW Collection Facility | Environment | Concern | Diesel Fuel | N/A | N/A | N/A |
| 770 | 01 | HW Collection Facility | Environment | Concern | Hydraulic Fluid | N/A | N/A | N/A |
| 779 | 08 | HW Collection Facility | Environment | Concern | Jet Fuel JP-5 | N/A | N/A | N/A |
| 779 | 08 | HW Collection Facility | Environment | Concern | Lubricating Oil | N/A | N/A | N/A |
| 779 | 08 | HW Collection Facility | Environment | Concern | Waste Oil | N/A | N/A | N/A |
| 797 Tank | | Tank | MWR Aero Club | Concern | Aviation Gasoline 100LL | 8000 gal | 5000 gal | 10000 gal |
| 800 | 02 | Vehicle Maint Facility | MWSS-373 HM Storage | Concern | Antifreeze | 220 gal | 55 gal | 55 gal |
| 800 | 02 | Vehicle Maint Facility | MWSS-373 HM Storage | Concern | Antifreeze | 330 gal | 55 gal | 55 gal |
| 800 A | 02 | UST-Motor Pool | MWSS-373 | Concern | Diesel Fuel No. 2 | 10000 gal | 5000 gal | 10000 gal |
| 800 | 02 | Vehicle Maint Facility | MWSS-373 | Concern | Lubricating oil, 30W | 220 gal | 95 gal | 55 gal |



★
 The approximate location of SWMU 121
 (Building 390 Vicinity) is identified with a
 star symbol.

'MCAS' EL TORO - AREA 19
 SCALE: 1"=150'-0"

| REVISIONS | | | | |
|----------------|------------------------------------|-----------|------|----------|
| SYMBOL | DESCRIPTION | PREP'D BY | DATE | APPROVED |
| | | | | |
| | | | | |
| | | | | |
| LEGENDS | | | | |
| AST | - ABOVE GROUND STORAGE TANK | | | |
| AM | - AIRCRAFT MAINTENANCE | | | |
| AW | - AIRCRAFT WASHING | | | |
| AF | - AIRCRAFT FUELING | | | |
| AP | - AIRCRAFT PAINTING | | | |
| CB | - CATCH BASIN | | | |
| ES | - EQUIPMENT STORAGE | | | |
| EM | - EQUIPMENT MAINTENANCE | | | |
| HMS | - HAZARDOUS MATERIAL STORAGE | | | |
| HWS | - HAZARDOUS WASTE STORAGE | | | |
| HWTA | - HAZARDOUS WASTE TRANSFER AREA | | | |
| MH | - MANHOLE | | | |
| OWS | - OIL/WATER SEPARATOR | | | |
| PPCA | - POLLUTANT CONTACT AREA | | | |
| PPCA | - POTENTIAL POLLUTANT CONTACT AREA | | | |
| UGT | - UNDERGROUND STORAGE TANK | | | |
| VP | - VEHICLE PAINTING | | | |
| VF | - VEHICLE FUELING | | | |
| VM | - VEHICLE MAINTENANCE | | | |
| VW | - VEHICLE WASHING | | | |
| WR | - WASH RACK | | | |
| WTA | - WASTE TRANSFER AREA | | | |

KEY PLAN
 SCALE: NONE

1"=150'-0"
 SCALE: 150 0 150 300
 FEET

IF SHEET IS LESS THAN 22X34 IT IS A REDUCED PRINT SCALE ACCORDINGLY

IEM
 INTEGRATED ENVIRONMENTAL MANAGEMENT, INC.

7000 WEST OLYMPIA • SUITE 400 • TORRANCE, CALIFORNIA 90503 310 572-8872 • 310 572-8873

| | | |
|-------------------------------|--------------------------|--------------------------------------|
| PROJECT NO. | DEPARTMENT OF THE NAVY | NAVAL FACILITIES ENGINEERING COMMAND |
| | EL TORO | SOUTHWEST DIVISION |
| | MARINE CORPS AIR STATION | EL TORO, CA |
| 'MCAS' EL TORO | | |
| AREA 19 - STORM DRAINS | | |
| DATE | SIZE | CONC. IDENT. NO. |
| 19-05-01 | D | NAVFAC DRAWING NO. |
| APPROVED | SIGNATURE | CONC. CONTR. NO. |
| | | 10001 |
| DRN BY FOR COMMANDER NAFC | SCALE | SHEET |
| | | OF |

P:\NODAL_JUDICIALS\9801\9801_01\9801_01.dwg 9/14/2013 10:07 AM

SOUTHWESTNAVFACENGCOM
CODE 06CC.LMH
SAN DIEGO, CA 92101

Extracts from Property Records, Building Guides, and Facility Maps

| | | | | | | | | | | | | | |
|-------|-------|------------------------------|----------|----------|----|---------|-----|-----|----|--------------|--------------|------|------|
| 368 | 61010 | INSTALLATIONS DEPT BLDG | NOY71129 | 19540201 | SF | 19,960 | 160 | 131 | 24 | \$404,548 | \$1,757,769 | 1954 | 1990 |
| 369 | 44172 | SERVMART | NOY71129 | 19540101 | SF | 29,568 | 200 | 140 | 24 | \$306,771 | \$1,855,425 | 1954 | 1990 |
| 370 | 21910 | PW PAINT/CARP/METAL TRADES | NOY71129 | 19540301 | SF | 15,280 | 184 | 140 | 26 | \$230,321 | \$1,336,068 | 1954 | 1990 |
| 371 | 21105 | IMA HANGAR | NOY2539 | 19540901 | SF | 86,652 | 272 | 261 | 59 | \$11,812,615 | \$24,409,098 | 1954 | 1990 |
| 372 | 14140 | AIRFIELD OPERATIONS/TOWER | NOY74043 | 19540601 | SF | 27,275 | 317 | 89 | 57 | \$994,785 | \$5,136,487 | 1954 | 1989 |
| 374 | 82109 | UTILITY BLDG | NOY72539 | 19540501 | SF | 5,586 | 113 | 49 | 18 | \$523,670 | \$1,472,637 | 1954 | 1987 |
| 377 | 84330 | WATER STORAGE TANK | NOY72539 | 19540115 | SY | 0 | 59 | 0 | 17 | \$40,000 | \$253,080 | 1954 | |
| FT553 | 12450 | UNLEADED MOGAS STOR | NOY74102 | 19560601 | SY | 0 | 27 | 8 | 0 | \$6,100 | \$35,600 | 1956 | |
| FT554 | 82160 | MOGAS STOR TANK | NOY74102 | 19560601 | SY | 0 | 27 | 8 | 0 | \$6,100 | \$35,600 | 1956 | |
| 555 | 14375 | POL SAMPLING BLDG | NOY89098 | 19550401 | SF | 800 | 40 | 20 | 8 | \$21,147 | \$90,449 | 1955 | 1989 |
| 556 | 12520 | MANIFOLD STATION | NOY74102 | 19550115 | SF | 543 | 35 | 15 | 8 | \$17,800 | \$109,951 | 1955 | |
| FT558 | 12120 | TANK TRUCK LOADING STAND | NOY26892 | 19520601 | SY | 0 | 20 | 8 | 12 | \$23,724 | \$161,299 | 1952 | |
| FT559 | 12120 | TANK TRUCK LOADING STAND | NOY26892 | 19520601 | SY | 0 | 20 | 8 | 12 | \$23,724 | \$161,299 | 1952 | |
| FT560 | 12120 | TANK TRUCK LOADING STAND | NOY26892 | 19520601 | SY | 0 | 20 | 8 | 12 | \$23,724 | \$161,299 | 1952 | |
| FT561 | 12120 | TANK TRUCK LOADING STAND | NOY74102 | 19550801 | SY | 0 | 20 | 8 | 12 | \$50,099 | \$306,005 | 1955 | |
| 376 | 61010 | FIRE ALARM HEADQUARTERS | NOY72540 | 19540601 | SF | 1,649 | 21 | 38 | 20 | \$41,176 | \$246,763 | 1954 | 1990 |
| 380 | 81159 | STAND-BY GEN BLDG | NOY72540 | 19540201 | SF | 1,050 | 50 | 21 | 19 | \$40,146 | \$224,352 | 1954 | 1983 |
| 347 | 74085 | EXCHANGE INSTALL WAREHOUSE | NOY14649 | 19481001 | SF | 9,306 | 177 | 96 | 13 | \$31,370 | \$227,275 | 1948 | 1984 |
| 383 | 81209 | SUBSTATION | NOY72540 | 19540101 | SF | 160 | 16 | 10 | 9 | \$1,120 | \$7,086 | 1954 | |
| 384 | 81209 | SUBSTATION | NOY72540 | 19540101 | SF | 160 | 16 | 10 | 9 | \$1,120 | \$7,086 | 1954 | |
| 385 | 81209 | SUBSTATION | NOY72540 | 19540101 | SF | 160 | 16 | 10 | 9 | \$1,120 | \$7,086 | 1954 | |
| | 85235 | MISC PAVEMENTS/BITUMINOUS/ | | 19430101 | SY | 235,032 | 0 | 0 | 0 | \$855,690 | \$10,213,841 | 1943 | 1990 |
| 1791 | 21154 | ORDNANCE BLDG | | 19460301 | SF | 1,680 | 84 | 20 | 8 | \$11,436 | \$115,629 | 1946 | |
| 1703 | 44130 | HAZARDOUS/FLAMMABL SHED | | 19520601 | SF | 480 | 30 | 16 | 14 | \$1,000 | \$6,698 | 1952 | |
| 1710 | 21925 | PW MAINT | | 19460115 | SF | 560 | 28 | 20 | 8 | \$3,077 | \$31,112 | 1946 | |
| 1702 | 74032 | AUTO WASH RACK | | 19550115 | SF | 1,980 | 55 | 36 | 20 | \$1,931 | \$11,928 | 1955 | |
| 1719 | 44112 | NBC SCHOOL/GRP | NOY11100 | 19460601 | SF | 960 | 48 | 20 | 8 | \$6,178 | \$62,466 | 1946 | 1977 |
| 1720 | 61072 | NBC SCHOOL ADMIN BLDG | | 19460601 | SF | 960 | 48 | 20 | 8 | \$9,166 | \$92,677 | 1946 | 1977 |
| 1721 | 72111 | GUARD QUARTERS | NOY11100 | 19460601 | SF | 960 | 48 | 20 | 8 | \$5,076 | \$51,323 | 1946 | 1977 |
| | 12510 | POL DISTRI PIPE LINE UNDERGR | NOY80722 | 19520301 | SY | 0 | 0 | 0 | 0 | \$2,643,361 | \$4,222,850 | 1952 | 1990 |
| 408 | 87220 | GUARD TOWERS /SW/ | NOY90791 | 19560201 | SF | 64 | 8 | 8 | 20 | \$3,617 | \$21,210 | 1956 | 1977 |
| 409 | 87220 | GUARD TOWER | NOY90791 | 19560201 | SF | 64 | 8 | 8 | 20 | \$1,741 | \$10,209 | 1956 | |
| 405 | 17120 | INSTRUCTION BUILDING/MAWTU | NOY90791 | 19560201 | SF | 3,208 | 61 | 57 | 13 | \$74,984 | \$103,641 | 1983 | 1984 |
| 406 | 17120 | AIR CREW WPNS/TACTICS TRNG | NOY90791 | 19560201 | SF | 2,285 | 58 | 35 | 12 | \$45,989 | \$268,392 | 1956 | 1977 |
| 407 | 61072 | ADMINISTRATION /SW/ | NOY90791 | 19560201 | SF | 400 | 20 | 20 | 10 | \$7,425 | \$43,332 | 1956 | 1977 |
| 386 | 21420 | HVY EQ MAINT | NOY85150 | 19551001 | SF | 7,136 | 213 | 36 | 21 | \$144,288 | \$414,058 | 1955 | 1988 |
| 387 | 85115 | LOADING/UNLOADING RAMP | NOY85150 | 19550101 | SY | 159 | 50 | 29 | 3 | \$2,081 | \$12,711 | 1955 | |
| 388 | 21453 | FIELD MAINTENANCE SHOP | NOY85150 | 19550401 | SF | 7,040 | 220 | 32 | 17 | \$107,081 | \$564,128 | 1955 | 1990 |
| 389 | 85115 | LOADING/UNLOADING RAMP | NOY85150 | 19550401 | SY | 159 | 50 | 29 | 3 | \$2,081 | \$12,711 | 1955 | |
| 390 | 74080 | GOLF CART HOUSE | NOY85150 | 19550401 | SF | 6,400 | 200 | 32 | 18 | \$97,310 | \$566,031 | 1955 | 1983 |
| 391 | 85115 | LOADING UNLOADING RAMP | NOY85150 | 19550115 | SY | 159 | 50 | 29 | 3 | \$2,081 | \$12,711 | 1955 | |
| 392 | 21860 | GSE SHOP | NOY85150 | 19550901 | SF | 6,400 | 200 | 32 | 17 | \$284,105 | \$795,242 | 1955 | 1986 |
| 416 | 44110 | AIR SURVEILLANCE RADAR BLDG | NOY86782 | 19570601 | SF | 480 | 24 | 20 | 11 | \$42,112 | \$237,133 | 1957 | |
| 579 | 44135 | STORAGE BUILDING | NOY86782 | 19570101 | SF | 176 | 16 | 11 | 9 | \$14,239 | \$80,180 | 1957 | |
| 404 | 13150 | TRANSMITTER BUILDING | NOY90826 | 19570115 | SF | 909 | 50 | 18 | 11 | \$54,824 | \$308,714 | 1957 | |
| 414 | 81159 | STAND-BY GEN. BLDG. | NOY90826 | 19570115 | SF | 384 | 24 | 16 | 13 | \$19,913 | \$112,130 | 1957 | |
| 394 | 13135 | RADIO RECEIVER BUILDING | NOY86704 | 19560115 | SF | 1,596 | 42 | 38 | 11 | \$84,980 | \$495,943 | 1956 | |
| 568 | 81159 | STAND-BY GEN BLDG | NOY86704 | 19560115 | SF | 176 | 16 | 11 | 9 | \$18,428 | \$107,546 | 1956 | |
| 573 | 13210 | RECEIVING ANTENNA-LF | NOY86704 | 19560115 | SY | 0 | 0 | 0 | 50 | \$7,465 | \$43,775 | 1956 | |
| FT396 | 12120 | A/C TRUCK FUEL FACILITY | NOY86722 | 19560601 | SY | 0 | 6 | 6 | 16 | \$13,127 | \$76,609 | 1956 | |
| 421 | 75010 | TENNIS COURT | NOY9453 | 19450601 | SY | 0 | 130 | 120 | 0 | \$11,591 | \$133,860 | 1945 | 1983 |
| 422 | 75010 | TENNIS COURT | NOY9453 | 19460115 | SY | 0 | 120 | 60 | 0 | \$5,472 | \$56,668 | 1946 | |
| 399 | 13325 | VOR FACILITIES | NOY89088 | 19560601 | SF | 425 | 25 | 17 | 12 | \$92,531 | \$194,826 | 1956 | 1981 |

| | | | | | | | | | | | | | |
|------|-------|--------------------------|---------------|----------|----|--------|-----|-----|----|-------------|-------------|------|------|
| 773 | 13210 | ANTENNA (MARS) | | 19830822 | | 0 | 0 | 0 | 0 | \$12,385 | \$17,153 | 1983 | |
| 774 | 13210 | ANTENNA (MARS) | | 19830822 | | 0 | 0 | 0 | 0 | \$12,384 | \$17,152 | 1983 | |
| 775 | 13210 | ANTENNA (MARS) | | 19830822 | | 0 | 0 | 0 | 0 | \$12,384 | \$17,152 | 1983 | 1983 |
| 776 | 13210 | ANTENNA (MARS) | | 19830822 | | 0 | 0 | 0 | 0 | \$12,384 | \$17,152 | 1983 | |
| 777 | 13210 | ANTENNA (MARS) | | 19830822 | | 0 | 0 | 0 | 0 | \$12,384 | \$17,152 | 1983 | |
| 744 | 14345 | ARMORY | N6247480C9163 | 19830114 | SF | 10,789 | 153 | 100 | 15 | \$1,131,033 | \$1,527,340 | 1983 | 1990 |
| 748 | 73075 | RESTROOM VAN COMPLEX | N6247480C9165 | 19830125 | SF | 560 | 20 | 20 | 11 | \$106,358 | \$145,594 | 1983 | 1984 |
| 749 | 73075 | RESTROOMS | N6247480C9165 | 19830125 | SF | 560 | 28 | 20 | 11 | \$106,358 | \$145,594 | 1983 | 1984 |
| 750 | 73025 | SENTRY BOOTH | N6247480C9165 | 19830125 | SF | 60 | 14 | 13 | 9 | \$27,273 | \$37,337 | 1983 | 1984 |
| 751 | 44130 | STORAGE SHED | N6247480C9165 | 19830125 | SF | 126 | 14 | 9 | 8 | \$16,930 | \$23,178 | 1983 | 1984 |
| | 11665 | MAG-11 VAN COMPLEX | N6247480C9165 | 19830125 | SY | 6,273 | 0 | 0 | 0 | \$389,036 | \$532,568 | 1983 | 1984 |
| 753 | 44130 | PEST CONTROL FACILITY | N6247482C2834 | 19830511 | SF | 1,118 | 43 | 26 | 13 | \$71,631 | \$96,392 | 1984 | 1990 |
| 747 | 61010 | PHOTO MAINT BLDG | N6247480C9329 | 19830409 | SF | 1,200 | 60 | 20 | 16 | \$346,816 | \$476,739 | 1983 | 1984 |
| | 11665 | PHOTO VAN COMPLEX | N6247480C9329 | 19830409 | SY | 131 | 0 | 0 | 0 | \$2,160 | \$2,992 | 1983 | |
| | 11665 | APU TEST STAND | N6247480C9167 | 19830822 | SY | 87 | 0 | 0 | 0 | \$1,200 | \$1,662 | 1983 | |
| 745 | 44112 | WAREHOUSE | N6247480C9830 | 19830114 | SF | 23,693 | 201 | 121 | 27 | \$1,090,822 | \$1,501,512 | 1983 | 1986 |
| 782 | 74080 | GOLF COURSE STRGE BLDG | | 19840201 | SF | 1,320 | 60 | 22 | 21 | \$32,281 | \$44,748 | 1983 | 1988 |
| 783 | 74003 | EXCHANGE SERVICES/ADMIN | N6247481C8526 | 19840203 | SF | 21,720 | 147 | 89 | 33 | \$1,703,791 | \$2,298,414 | 1984 | |
| 769 | 83141 | HAZ MATLS COL FAC | N6247483C5697 | 19830901 | SF | 204 | 17 | 12 | 10 | \$6,605 | \$9,145 | 1983 | 1984 |
| 770 | 83141 | HAZ MATLS COL FAC | N6247483C5697 | 19830901 | SF | 204 | 17 | 12 | 10 | \$6,605 | \$9,145 | 1983 | 1984 |
| 771 | 83141 | HAZ MATLS COL FAC | N6247483C5697 | 19830901 | SF | 204 | 17 | 12 | 10 | \$6,605 | \$9,145 | 1983 | 1984 |
| 772 | 83141 | HAZ MATLS COL FAC | N6247483C5697 | 19830901 | SF | 204 | 17 | 12 | 10 | \$6,605 | \$9,145 | 1983 | 1984 |
| 778 | 83141 | HAZ MATLS COL FAC | N6247483C5697 | 19830901 | SF | 204 | 17 | 12 | 10 | \$6,605 | \$9,145 | 1983 | 1984 |
| 779 | 83141 | HAZ MATLS COL FAC | N6247483C5697 | 19830901 | SF | 204 | 17 | 12 | 10 | \$6,605 | \$9,145 | 1983 | 1984 |
| 784 | 61010 | DRMO FIELD OFFICE LOT #2 | N6247482C2828 | 19840515 | SF | 400 | 40 | 10 | 10 | \$5,500 | \$7,420 | 1984 | |
| 6604 | 71170 | 3146 A-F AKINS ST. | N62474818934 | 19831209 | SF | 13,320 | 90 | 74 | 26 | \$194,550 | \$270,114 | 1983 | |
| 6605 | 71170 | 3147 A-F AKINS ST. | N6247481C8934 | 19831209 | SF | 13,320 | 90 | 74 | 26 | \$200,861 | \$278,855 | 1983 | |
| 6606 | 71170 | 3150 A-F AKINS ST. | N6247481C8934 | 19831209 | SF | 13,320 | 90 | 74 | 26 | \$200,861 | \$278,855 | 1983 | |
| 6607 | 71170 | 3151 A-F AKINS ST. | N6247481C8934 | 19831209 | SF | 13,320 | 90 | 74 | 26 | \$200,861 | \$278,855 | 1983 | |
| 6608 | 71170 | 3157 A-F AKINS ST. | N6247481C8934 | 19831209 | SF | 13,320 | 90 | 74 | 26 | \$200,861 | \$278,855 | 1983 | |
| 6609 | 71170 | 3158 A-F AKINS ST. | N6247481C8934 | 19831209 | SF | 13,320 | 90 | 74 | 26 | \$200,861 | \$278,855 | 1983 | |
| 6610 | 71170 | 3159 A-F AKINS ST. | N6247481C8934 | 19831209 | SF | 13,320 | 90 | 74 | 26 | \$200,861 | \$278,855 | 1983 | |
| 6611 | 71170 | 3162 A-F AKINS ST. | N6247481C8934 | 19831209 | SF | 13,320 | 90 | 74 | 26 | \$200,861 | \$278,855 | 1983 | |
| 6612 | 71170 | 3172 A-F AKINS ST. | N6247481C8934 | 19831209 | SF | 13,320 | 90 | 74 | 26 | \$200,861 | \$278,855 | 1983 | |
| 6613 | 71170 | 3178 A-F AKINS ST. | N6247481C8934 | 19831209 | SF | 13,320 | 90 | 74 | 26 | \$200,861 | \$278,855 | 1983 | |
| 6614 | 71170 | 3184 A-F AKINS ST | N6247481C8934 | 19831209 | SF | 13,320 | 90 | 74 | 26 | \$200,861 | \$278,855 | 1983 | |
| 6615 | 71170 | 3186 A-F AKINS ST. | N6247481C8934 | 19831209 | SF | 13,320 | 90 | 74 | 26 | \$200,861 | \$278,855 | 1983 | |
| 6616 | 71170 | 15902 A-F BECKER CRT. | N6247481C8934 | 19831209 | SF | 13,320 | 90 | 74 | 26 | \$200,861 | \$278,855 | 1983 | |
| 6617 | 71170 | 15905 A-F BECKER CRT. | N6247481C8934 | 19831209 | SF | 13,320 | 90 | 74 | 26 | \$200,861 | \$278,855 | 1983 | |
| 6618 | 71170 | 15918 A-F BECKER CRT. | N6247481C8934 | 19831209 | SF | 13,320 | 90 | 74 | 26 | \$200,861 | \$278,855 | 1983 | |
| 6619 | 71170 | 15921 A-F BECKER CRT. | N6247481C8934 | 19831209 | SF | 13,320 | 90 | 74 | 26 | \$200,861 | \$278,855 | 1983 | |
| 6620 | 71170 | 15924 A-F BECKER CRT. | N6247481C8934 | 19831209 | SF | 13,320 | 90 | 74 | 26 | \$200,861 | \$278,855 | 1983 | |
| 6621 | 71170 | 15205 A-F GALLION CRT. | N6247481C8934 | 19831209 | SF | 13,320 | 90 | 74 | 26 | \$200,861 | \$278,855 | 1983 | |
| 6622 | 71170 | 15214 A-D GALLION CRT. | N6247481C8934 | 19831209 | SF | 6,688 | 74 | 45 | 26 | \$132,110 | \$182,972 | 1983 | |
| 6623 | 71170 | 15225 A-D GALLION CRT. | N6247481C8934 | 19831209 | SF | 6,688 | 74 | 45 | 26 | \$132,110 | \$182,972 | 1983 | |
| 6624 | 71170 | 15201 A-F JAMES CRT. | N6247481C8934 | 19841209 | SF | 13,320 | 90 | 74 | 26 | \$200,861 | \$278,855 | 1983 | |
| 6625 | 71170 | 15210 A-F JAMES CRT. | N6247481C8934 | 19831209 | SF | 13,320 | 90 | 74 | 26 | \$200,861 | \$278,855 | 1983 | |
| 6626 | 71170 | 15221 A-D JAMES CRT. | N6247481C8934 | 19831209 | SF | 6,688 | 74 | 45 | 26 | \$132,110 | \$182,972 | 1983 | |
| 6627 | 71170 | 15904 A-F POLIQUIN CRT. | N6247481C8934 | 19831209 | SF | 13,320 | 90 | 74 | 26 | \$200,861 | \$278,855 | 1983 | |
| 6628 | 71170 | 15912 A-F POLIQUIN CRT. | N6247481C8934 | 19831209 | SF | 13,320 | 90 | 74 | 26 | \$200,861 | \$278,855 | 1983 | |
| 6629 | 71170 | 15913 A-F POLIQUIN CRT. | N6247481C8934 | 19831209 | SF | 13,320 | 90 | 74 | 26 | \$200,860 | \$278,854 | 1983 | |
| 6630 | 71170 | 15920 A-F POLIQUIN CRT. | N6247481C8934 | 19831209 | SF | 13,320 | 90 | 74 | 26 | \$200,860 | \$278,854 | 1983 | |
| 6631 | 71170 | 15207 A-F ROGERS CRT. | N6247481C8934 | 19831209 | SF | 13,320 | 90 | 74 | 26 | \$200,860 | \$278,854 | 1983 | |

| | | | | | | | | | | | | | |
|-----|-------|------------------------------|---------------|----------|----|---------|-----|-----|----|-------------|-------------|------|------|
| | 87210 | CHAIN LINK FENCE (212 UNITS) | N6247481C8934 | 19831209 | | 0 | 0 | 0 | 0 | \$29,000 | \$40,165 | 1983 | |
| | 85110 | ROADS (212 UNITS) | N6247481C8934 | 19831209 | SY | 28,333 | 0 | 0 | 0 | \$275,000 | \$380,875 | 1983 | |
| | 85220 | SIDEWALKS (212 UNITS) | N6247481C8934 | 19831209 | SY | 8,141 | 0 | 0 | 0 | \$91,000 | \$126,035 | 1983 | |
| | 81212 | TRANSFORMERS (212 UNITS) | N6247481C8934 | 19831209 | | 0 | 0 | 0 | 0 | \$22,800 | \$31,578 | 1983 | |
| 785 | 21106 | PASCOE BUILDING | | 19840701 | SF | 5,600 | 140 | 40 | 20 | \$34,778 | \$45,951 | 1984 | 1985 |
| 755 | 14187 | LOX/NOX BLDG | N6247481C7357 | 19830531 | SF | 150 | 15 | 10 | 10 | \$25,338 | \$35,321 | 1983 | |
| 756 | 14187 | LOX/NOX SHED | N6247481C7357 | 19830531 | SF | 150 | 15 | 10 | 10 | \$25,337 | \$35,320 | 1983 | |
| | 85235 | LOX SLAB | | 19840709 | SY | 69 | 25 | 25 | 0 | \$1,074 | \$1,449 | 1984 | |
| | 69010 | FLAG POLE | | 19831101 | SY | 0 | 0 | 0 | 0 | \$469 | \$645 | 1983 | 1985 |
| 767 | 69010 | BILLBOARD SIGN | | 19830101 | | 0 | 0 | 0 | 0 | \$4,000 | \$5,540 | 1983 | |
| 787 | 17110 | NBC DEFENSE TRAINING BLDG | N6247483C5722 | 19840906 | SF | 4,000 | 71 | 65 | 17 | \$185,039 | \$249,618 | 1984 | |
| 786 | 21154 | AVIATION ARMAMENT BLDG | N6247483C5721 | 19841004 | SF | 3,000 | 75 | 40 | 22 | \$86,981 | \$117,337 | 1984 | |
| 792 | 74079 | STABLES BARN | | 19840920 | SF | 2,880 | 120 | 24 | 15 | \$60,000 | \$80,700 | 1984 | |
| | 69010 | ENERGY CONSERVATION B BOARD | | 19841109 | | 0 | 0 | 0 | 0 | \$1,260 | \$1,695 | 1984 | 1984 |
| 746 | 17135 | OPERATIONAL TRAINER FACILITY | N6247479C5140 | 19840817 | SF | 22,516 | 144 | 124 | 50 | \$3,288,901 | \$4,436,082 | 1984 | 1990 |
| 796 | 82610 | SUBSTATION/CHILLER BLDG | N6247479C5140 | 19840817 | SF | 1,518 | 69 | 22 | 14 | \$224,816 | \$303,277 | 1984 | |
| 758 | 89009 | VEH WASH EQUIPMENT BLDG | N6247480C9175 | 19840830 | SF | 228 | 19 | 12 | 10 | \$31,000 | \$41,819 | 1984 | |
| 759 | 89009 | VEH WASH EQUIPMENT BLDG | N6247480C9175 | 19840830 | SF | 228 | 19 | 12 | 10 | \$31,000 | \$41,819 | 1984 | |
| 760 | 89009 | VEH WASH EQUIPMENT BLDG | N6247480C9175 | 19850830 | SF | 228 | 19 | 12 | 10 | \$31,000 | \$41,819 | 1984 | |
| 761 | 89009 | A/C WASH EQUIPMENT BLDG | N6247480C9175 | 19840830 | SF | 684 | 36 | 19 | 12 | \$100,000 | \$134,900 | 1984 | |
| 762 | 89009 | VEH WASH EQUIPMENT BLDG | N6247480C9175 | 19850830 | SF | 228 | 19 | 12 | 10 | \$31,000 | \$41,819 | 1984 | |
| 763 | 89009 | A/C WASH EQUIPMENT BLDG | N6247480C9175 | 19850830 | SF | 684 | 36 | 19 | 12 | \$100,000 | \$134,900 | 1984 | |
| 764 | 89009 | VEH WASH EQUIPMENT BLDG | N6247480C9175 | 19850830 | SF | 228 | 19 | 12 | 10 | \$54,554 | \$73,593 | 1984 | |
| 765 | 89009 | VEH WASH EQUIPMENT BLDG | N6247480C9175 | 19840830 | SF | 228 | 19 | 12 | 10 | \$54,554 | \$73,593 | 1984 | |
| 766 | 89009 | VEH WASH EQUIPMENT BLDG | N6247480C9175 | 19840830 | SF | 228 | 19 | 12 | 10 | \$54,554 | \$73,593 | 1984 | |
| | 21455 | VEHICLE WASHRACKS | N6247480C9175 | 19850830 | | 10,091 | 0 | 0 | 0 | \$578,971 | \$781,032 | 1984 | |
| 674 | 87111 | OIL WATER SEPARATOR | N6247471C4175 | 19720801 | | 0 | 0 | 0 | 0 | \$74,000 | \$173,272 | 1972 | 1992 |
| 675 | 87111 | OIL WATER SEPARATOR | N6247471C4178 | 19720801 | | 0 | 0 | 0 | 0 | \$44,000 | \$138,952 | 1972 | |
| 797 | 12120 | AVGAS FUELING STATION | N6247483C5771 | 19850321 | | 0 | 40 | 40 | 30 | \$61,588 | \$81,358 | 1985 | |
| 789 | 83229 | SEWAGE MONITORING STATION | N6247480C9175 | 19840830 | SF | 36 | 6 | 6 | 9 | \$114,384 | \$154,105 | 1984 | 1986 |
| 794 | 14320 | EOD TEAM BLDG | N6247484C1747 | 19850514 | SF | 3,600 | 90 | 40 | 14 | \$194,494 | \$254,596 | 1985 | 1993 |
| 795 | 14320 | EOD RANGE BLDG | N6247484C1747 | 19850514 | SF | 340 | 20 | 17 | 18 | \$44,529 | \$58,195 | 1985 | 1990 |
| 798 | 73070 | AIRCRAFT DECONTAMINATION TRN | N6247483C1749 | 19850513 | SF | 944,460 | 945 | 987 | 10 | \$187,963 | \$246,607 | 1985 | |
| 817 | 21455 | VEHICLE WASH BLDG | N6247483C5729 | 19850314 | SF | 288 | 24 | 12 | 12 | \$40,320 | \$52,436 | 1985 | 1986 |
| 816 | 11665 | COMPUTER VAN PAD MAG-13 | N6247484C1814 | 19850814 | SY | 174 | 98 | 16 | 0 | \$53,882 | \$71,569 | 1985 | |
| 780 | 42135 | READY SERVICE MAGAZINE | N6247482C2812 | 19850325 | SF | 128 | 8 | 16 | 9 | \$32,017 | \$42,227 | 1985 | 1990 |
| 781 | 42135 | READY SERVICE MAGAZINE | N6247482C2812 | 19850325 | SF | 512 | 16 | 32 | 9 | \$82,681 | \$109,222 | 1985 | |
| 818 | 83230 | SEWAGE LIFT STATION | N6247483C5680 | 19850919 | | 0 | 10 | 10 | 3 | \$37,600 | \$49,670 | 1985 | |
| 791 | 74060 | COMMISSIONED OFFICERS' CLUB | N6247483C5680 | 19850916 | SF | 22,500 | 214 | 135 | 18 | \$2,410,479 | \$3,182,036 | 1985 | 1990 |
| 819 | 17940 | SMALL ARMS RANGE OUTDOOR | N6247480C9567 | 19860205 | | 0 | 42 | 38 | 10 | \$331,616 | \$423,315 | 1986 | |
| 790 | 74080 | GOLF CART BLDG | N6247482C0749 | 19850123 | SF | 3,471 | 89 | 39 | 12 | \$154,831 | \$205,394 | 1985 | 1986 |
| | 83130 | SEPTIC TANK (SM ARMS RANGE) | N6247480C9567 | 19860205 | | 0 | 0 | 0 | 0 | \$12,003 | \$15,593 | 1986 | |
| | 85230 | PEDESTRIAN BRIDGE (WHERRY) | N6247483C5757 | 19860311 | SY | 22 | 50 | 4 | 0 | \$30,132 | \$39,202 | 1986 | |
| | 85230 | PEDESTRIAN BRIDGES (WHERRY) | N6247483C5757 | 19860311 | SY | 44 | 100 | 4 | 0 | \$46,131 | \$60,939 | 1985 | |
| | 11665 | COMPUTER VAN PAD MAG-11 | N6247484C1814 | 19851028 | SY | 278 | 100 | 25 | 0 | \$73,427 | \$96,606 | 1985 | |
| 805 | 21860 | FORKLIFT BLDG | N6247483C2177 | 19860715 | SF | 1,922 | 62 | 31 | 14 | \$143,769 | \$187,043 | 1986 | |
| 811 | 42172 | BOX MAGAZINE | N6247483C2177 | 19860715 | SF | 3,630 | 55 | 66 | 16 | \$494,059 | \$642,771 | 1986 | |
| 812 | 42172 | BOX MAGAZINE | N6247483C2177 | 19860715 | SF | 1,250 | 50 | 25 | 12 | \$494,058 | \$642,769 | 1986 | |
| 813 | 42122 | ARCH MAGAZINE | N6247483C2177 | 19860715 | SF | 1,250 | 50 | 25 | 12 | \$217,381 | \$282,665 | 1986 | 1990 |
| 814 | 42122 | ARCH MAGAZINE | N6247483C2177 | 19860715 | SF | 1,250 | 50 | 25 | 12 | \$216,161 | \$281,225 | 1986 | |
| 815 | 42122 | ARCH MAGAZINE | N6247483C2177 | 19860715 | SF | 1,250 | 50 | 25 | 12 | \$216,162 | \$281,227 | 1986 | |
| 800 | 21451 | VEHICLE MAINTENANCE | N6247480C9828 | 19860321 | SF | 30,661 | 322 | 97 | 25 | \$2,710,241 | \$3,513,556 | 1986 | 1988 |
| 801 | 21451 | DISPATCH OFFICE | N6247480C9828 | 19860321 | SF | 320 | 20 | 16 | 12 | \$63,250 | \$82,288 | 1986 | |

MCAS EL TORO BUILDING GUIDE

Annotations made by the writer of the Summary Report are identified with a star symbol or an arrow.
★ The 1994 Building Guide identifies Building 390 as the Golf Cart Shop.

| FAC NO. | MAP GRID | DESCRIPTION | TENANT | CAT CODE NUMB | COST ACCT CODE | SIZE |
|---------|----------|--------------------------------|--------------|---------------|----------------|-----------|
| 370 | T6 | FW Paint/Carp/Metal Trades | Installation | 21910 | EBBO | 15280 SF |
| 371 | Q11 | Maint Hangar OH Space | VMFAT-101 | 21105 | EBVO | 36000 SF |
| 371 | Q11 | Maint Hangar 01 Space | VMFAT-101 | 21106 | EBVO | 16952 SF |
| 371 | Q11 | Maint Hangar 02 Space | VMFAT-101 | 21107 | EBVO | 21117 SF |
| 371 | Q11 | Engine Maintenance Shop | MALS-11 | 21121 | EBVO | 12992 SF |
| 372 | 08 | Airfield Operations Bldg | SOMS/FAA | 14140 | EBNO | 11323 SF |
| 372 | 08 | Stand-by Generator Bldg | SOMS | 81159 | EAAO | 400 SF |
| 372 | 08 | Control Tower | SOMS | 14170 | EBNO | 1323 SF |
| 372 | 08 | Field Lighting Vault | SOMS | 81209 | EHAO | 674 SF |
| 372 | 08 | Snack Bar #3 | MWR-Hosp | 74005 | EBLO | 1000 SF |
| 374 | Q11 | Heating Plant Bldg | Installation | 82109 | EAOO | 3773 SF |
| 374 | Q11 | Conversion Station | Installation | 81310 | EHAO | 1813 SF |
| 375 | S3 | Bachelor Officers Quarters | Sta/G-4 | 72412 | EBKO | 24 FN |
| 376 | 04 | Fire Station Dispatch | Sta/G-1 | 73110 | EBLO | 1649 SF |
| 77 | Q11 | Water Storage Tank | Installation | 84330 | EAUD | 316000 GA |
| 9 | U9 | Truck Weighing Facility | Supply | 89056 | EAPD | 1 EA |
| 380 | M10 | Standby Generator Bldg | Installation | 81159 | EAAO | 1050 SF |
| 382 | P3 | Electrical Distr Subs #1 | Installation | 81209 | EABD | 207 SF |
| 383 | U8 | Electrical Distr Subs #2 | Installation | 81209 | EHAO | 160 SF |
| 384 | R12 | Electrical Distr Subs #3 | Installation | 81209 | EHAO | 160 SF |
| 385 | M10 | Electrical Distr Subs #4 | Installation | 81209 | EHAO | 160 SF |
| 386 | T7 | Construction Equip Shop | Installation | 21420 | EBBO | 7136 SF |
| 387 | T8 | Loading/Unloading Ramp | CSSD-14 | 85115 | EDAO | 159 SF |
| 388 | U8 | Field Maint Shop | CSSD-14 | 21453 | EBBO | 7040 SF |
| 389 | P12 | Loading/Unloading Ramp | Station | 85115 | EDAO | 159 SF |
| → 390 | P13 | Golf Cart Shop | MWR | 74080 | EBLO | 6400 SF |
| 391 | M9 | Loading/Unloading Ramp | MAG-11 | 85115 | EDAO | 159 SF |
| 392 | M9 | ACFT Ground Supt Equip Shop | MALS-11 | 21860 | EBBO | 6400 SF |
| 394 | K13 | Transmitter (UHF/VHF COMMxMTR) | Sta/G-6 | 13150 | EBMO | 1596 SF |
| 396 | N10 | Aircraft Truck Fueling | Supply | 12120 | ECWO | 1 EA |
| 399 | P7 | Vortac Facility | Sta/G-6 | 13325 | EBVO | 425 SF |
| 402 | K8 | Stables Toilet | MWR | 73075 | EBLO | 75 SF |
| 404 | Q10 | Receiver Bldg | Sta/G-6 | 13150 | EBMO | 909 SF |
| 405 | P12 | Applied Instruction Bldg | AWTU-3 | 17120 | EBAO | 3208 SF |
| 406 | P12 | Applied Instruction Bldg | AWTU-3 | 17120 | EBAO | 2285 SF |
| 407 | P12 | Squadron Headquarters | AWTU-3 | 61072 | EBFO | 400 SF |
| 408 | P12 | Guard Tower | AWTU-3 | 87220 | ECSD | 64 SF |
| 409 | P12 | Guard Tower | AWTU-3 | 87220 | ECSD | 64 SF |
| 410 | L2 | Playing Fields, Softball | MWR | 75020 | ESCO | 4 EA |
| 414 | Q10 | Standby Generator Bldg | Sta/G-3 | 81159 | EAAO | 384 SF |
| 5 | L8 | Storage out of Stores | MAG-11 | 44112 | EBDO | 40313 SF |
| 6 | P14 | Storage Bldg | FAA | 44110 | EBDO | 480 SF |
| 419 | P5 | Saluting Battery | Supply | 69015 | ECLD | 1 EA |
| 420 | Q3 | Station Flagpole | Adjutant | 69010 | ECLD | 1 EA |
| 421 | R3 | Playing Courts, Tennis | MWR | 75010 | ECND | 2 EA |
| 422 | Q3 | Playing Courts, Tennis | MWR | 75010 | ECND | 1 EA |
| 427 | N4 | Playing Courts, Hndbl/Bsktbl | MWR | 75010 | ECND | 1 EA |
| 430 | P3 | Playing Court, Tennis | MWR | 75010 | ECND | 1 EA |

El Toro Building Guide

Annotations made by the writer of the Summary Report are identified with a star symbol or an arrow.
 ☆ The 1997 Building Guide identifies Building 390 as the Golf Cart Shop.

| BLDG | GRI | DESCRIPTION | TENANT | | | |
|-------|-----|------------------------------|--------------|-------|------|----------|
| 375 | S3 | Bachelor Officers Quarters | Sta/G-4 | | | |
| 376 | 04 | Fire Station Dispatch | Sta/G-1 | | | |
| 377 | Q11 | Water Storage Tank | Installation | | | |
| 379 | U9 | Truck Weighing Facility | Supply | | | |
| 380 | M10 | Standby Generator Bldg | Installation | | | |
| 382 | P3 | Electrical Distr Subs #1 | Installation | 81209 | EAAO | 1050 SF |
| 383 | U8 | Electrical Distr Subs #2 | Installation | 81209 | EAAO | 207 SF |
| 384 | R12 | Electrical Distr Subs #3 | Installation | 81209 | EAAO | 160 SF |
| 385 | M10 | Electrical Distr Subs #4 | Installation | 81209 | EAAO | 160 SF |
| 386 | T7 | Construction Equip Shop | Sta/G-4 | 21420 | EBBO | 7136 SF |
| 387 | T8 | Loading/Unloading Ramp | CSSD-14 | 85115 | EDAO | 159 SF |
| 388 | U8 | Field Maint Shop | CSSD-14 | 21453 | EBBO | 7040 SF |
| 389 | P12 | Loading/Unloading Ramp | Station | 85115 | EDAO | 159 SF |
| → 390 | P13 | Golf Cart Shop | MWR/Rec | 74080 | EBLO | 6400 SF |
| 391 | M9 | Loading/Unloading Ramp | MAG-11 | 85115 | EDAO | 159 SF |
| 392 | M9 | ACFT Ground Supt Equip | MALS-11 | 21860 | EBBO | 6400 SF |
| 394 | K13 | Transmitter(UHF/VHF | Sta/G-6 | 13150 | EBMO | 1596 SF |
| 396 | N10 | Aircraft Truck Fueling | Supply | 12120 | ECWO | 1 EA |
| 399 | P7 | Vortac Facility | Sta/G-6 | 13325 | EBUO | 425 SF |
| 402 | K8 | Stables Toilet | MWR/Rec | 73075 | EBLO | 75 SF |
| 404 | Q10 | Receiver Bldg | Sta/G-6 | 13150 | EBMO | 909 SF |
| 405 | P12 | Applied Instruction Bldg | MALS-16 | 17120 | EBAO | 3208 SF |
| 406 | P12 | Applied Instruction Bldg | MALS-16 | 17120 | EBAO | 2285 SF |
| 407 | P12 | (Squadron Headquarters) | Vacant | 61072 | EBFO | 400 SF |
| 408 | P12 | (Guard Tower) | Vacant | 87220 | ECNO | 64 SF |
| 409 | P12 | (Guard Tower) | Vacant | 87220 | ECNO | 64 SF |
| 410 | L2 | Playing Fields, Softball | MWR/Rec | 75020 | ESCO | 4 EA |
| 414 | Q10 | Standby Generator Bldg | Sta/G-3 | 81159 | EAAO | 384 SF |
| 415 | L8 | Storage out of Stores | MAG-11 | 44112 | EBDO | 40313 SF |
| 416 | P14 | Storage Bldg | FAA | 44110 | EBDO | 480 SF |
| 419 | P5 | Saluting Battery | Supply | 69015 | ECLO | 1 EA |
| 420 | Q3 | Station Flagpole | Adjutant | 69010 | ECLO | 1 EA |
| 421 | R3 | Playing Courts, Tennis | MWR/Rec | 75010 | ECNO | 2 EA |
| 422 | O3 | Playing Courts, Tennis | MWR/Rec | 75010 | ECNO | 1 EA |
| 427 | N4 | Playing Courts, Hndbl/Bsktbl | MWR/Rec | 75010 | ECNO | 1 EA |
| 430 | P3 | Playing Court, Tennis | MWR/Rec | 75010 | ECNO | 1 EA |
| 432 | M4 | Foot/Soccer/Baseball Field | MWR/Rec | 75020 | ECNO | 4 EA |
| 435 | S7 | Acft Fire & Rescue Station | SOMS | 14120 | EBNO | 11440 SF |
| 439 | P2 | Branch Dental Clinic | 13th Dental | 54010 | EBEO | 10680 SF |
| 439 | P2 | Branch Medical Clinic | Nav Hosp | 55010 | EBEO | 59487 SF |
| 440 | O12 | Missile Magazine | Station | 42172 | EBQO | 930 SF |
| 441 | O12 | Aviation Armament/Sta | Station/G-4 | 21154 | EBVO | 1500 SF |
| 442 | P12 | Aviation Armament/Sta | MALS-11 | 21154 | EBVO | 6220 SF |
| 443 | O2 | Photographic Laboratory | Training | 14160 | EBNO | 3288 SF |
| 443 | O2 | Academic Instruction Bldg | Training | 17110 | EBAO | 4592 SF |
| 443 | O2 | Academic Instruction Bldg | Training | 17120 | EBAO | 22086 SF |

LEGEND OF FACILITIES

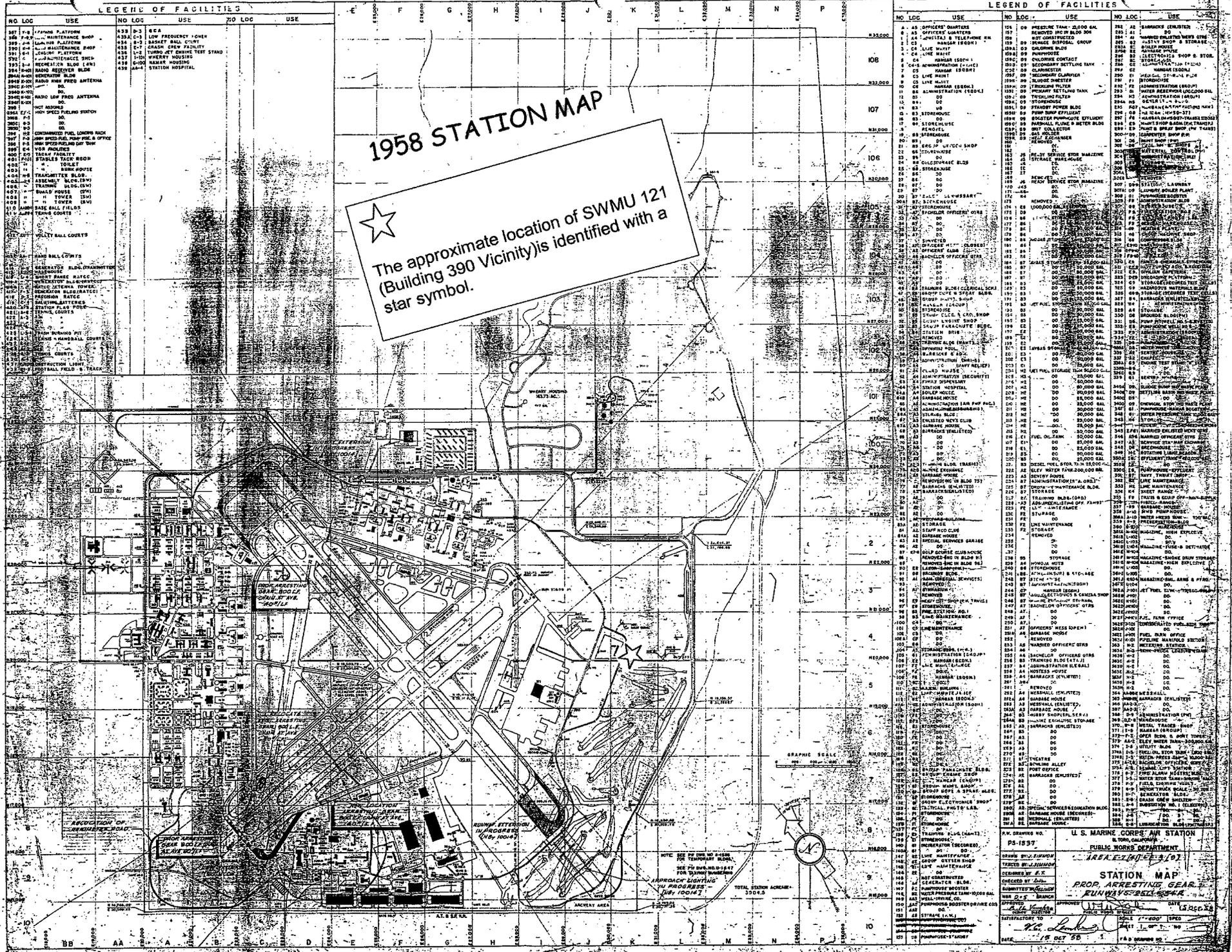
Table with columns: NO LOG, USE, NO LOG, USE, NO LOG, USE. Lists various facility types such as 'OFFICERS QUARTERS', 'ENGINEER OFFICE', 'COMMUNICATIONS', etc.

LEGEND OF FACILITIES

Table with columns: NO LOG, USE, NO LOG, USE, NO LOG, USE. Lists various facility types such as 'OFFICERS QUARTERS', 'ENGINEER OFFICE', 'COMMUNICATIONS', etc.

1958 STATION MAP

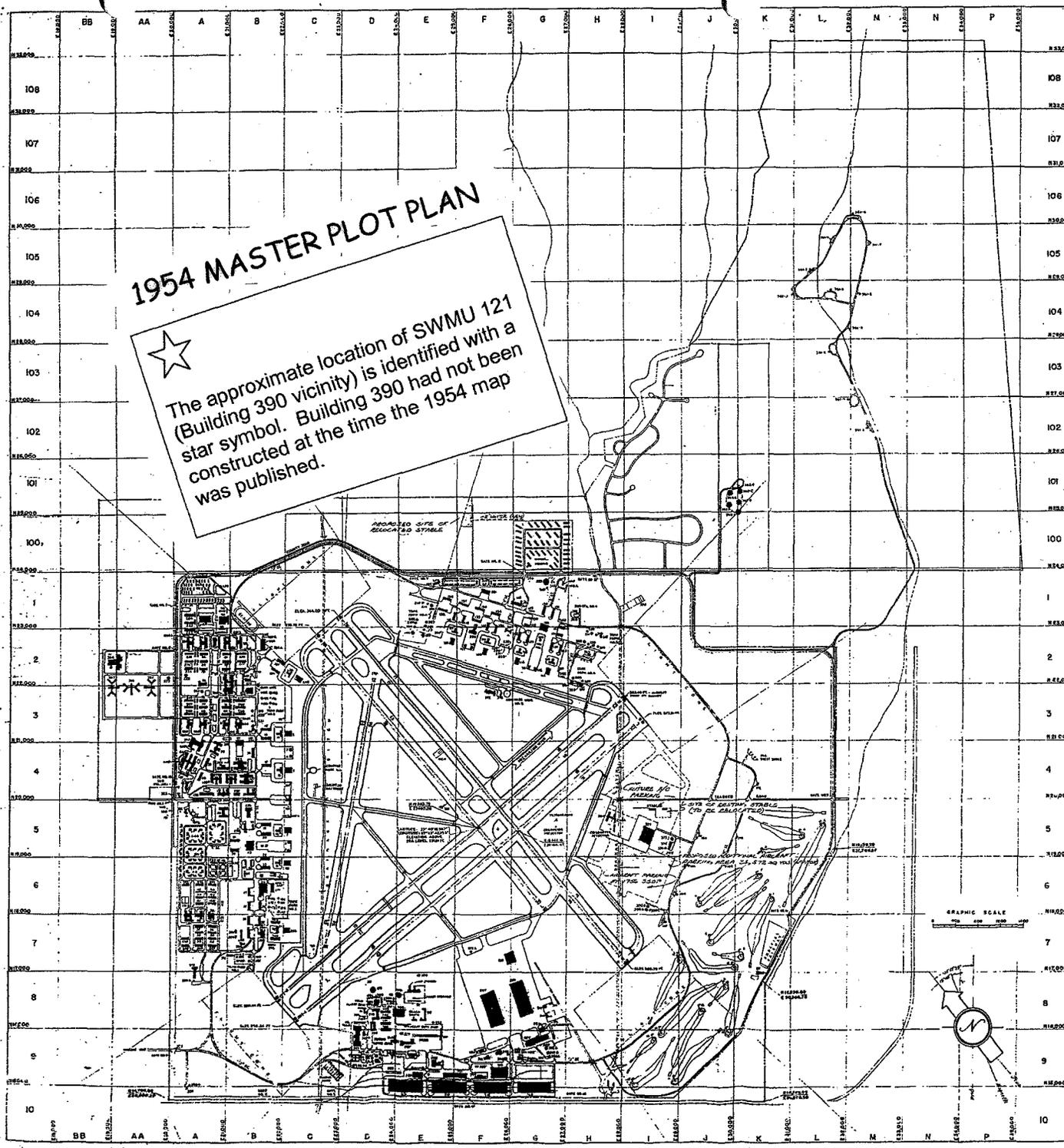
The approximate location of SWMU 121 (Building 390 Vicinity) is identified with a star symbol.



STATION MAP PROP. ARRESTING GEAR RUNWAY/RELLS/SEA. Includes a signature and date: 1958 FEB 58.

1954 MASTER PLOT PLAN

★ The approximate location of SWMU 121 (Building 390) vicinity is identified with a star symbol. Building 390 had not been constructed at the time the 1954 map was published.



| LEGEND OF FACILITIES | | | | | |
|----------------------|-----|-------------------------|-----|-----|--------------------------|
| NO | LOC | USE | NO | LOC | USE |
| 1 | AA | OFFICER'S QUARTERS | 194 | DD | PRESERVE TANK - 8000 GAL |
| 2 | AA | OFFICER'S QUARTERS | 195 | DD | RESERVE TANK - 8000 GAL |
| 3 | AA | ARM BLDG & TELEPHONE RM | 196 | DD | SOFT CONSTRUCTED |
| 4 | AA | TRUCK GARAGE | 197 | DD | TRUCK GARAGE |
| 5 | AA | PREPARE & ASSEMBLY | 198 | DD | COLLECTOR BLDG |
| 6 | AA | CLUBHOUSE | 199 | DD | LOWBOY |
| 7 | AA | CLUBHOUSE | 200 | DD | COLLECTOR BLDG |
| 8 | AA | CLUBHOUSE | 201 | DD | SECONDARY SETTLING TANK |
| 9 | AA | CLUBHOUSE | 202 | DD | CLARIFIER |
| 10 | AA | CLUBHOUSE | 203 | DD | CLARIFIER |
| 11 | AA | CLUBHOUSE | 204 | DD | CLARIFIER |
| 12 | AA | CLUBHOUSE | 205 | DD | CLARIFIER |
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United States Marine Corps

Base Realignment and Closure Business Plan



EXTRACTS

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

For
**Marine Corps Air Station
El Toro, CA**

March 2001

Table 2
Site Summary
(Sheet 38 of 43)

| Database Tracking | Reuse Parcel | Description | Material Disposed | Date of Operation | Status | Regulatory Mechanism | NFA | NFA Date | Comments | ECP Area Type | Approx. ECP Area (acres) |
|-------------------|--------------|----------------------------|-------------------|-------------------|------------------------------------|----------------------|-----|----------|----------|---------------|--------------------------|
| RFA 104 | 13F | < 90-day accumulation area | | | NFA Pending Rad Survey | DTSC | X | 8/25/99 | | 4 | 0.18 |
| RFA 105 | 13F | < 90-day accumulation area | | | NFA Pending Rad Survey | DTSC | X | 8/25/99 | | 4 | 0.18 |
| RFA 106 | 13F | < 90-day accumulation area | | | NFA Pending Rad Survey | DTSC | X | 8/25/99 | | 4 | 0.18 |
| RFA 109 | 11A | < 90-day accumulation area | | | Not Located During RFA | | X | | | 1 | 0.18 |
| RFA 110 | 11A | Vehicle wash rack | | | FA - Field work completed in 1998 | RWQCB | X | 7/9/00 | | 4 | 0.18 |
| RFA 120 | 12G | Vehicle wash rack | | | | | X | 7/2/97 | | 3 | 0.18 |
| RFA 121 | 12G | Drum storage area | | | Not Located During RFA | | X | | | 1 | 0.18 |
| RFA 125 | 2B | < 90-day accumulation area | | | | | X | | | 3 | 0.18 |
| RFA 128 | 11A | Storage area | | | | | X | | | 1 | 0.18 |
| RFA 131 | 12H | Engine test cell | | | Closed | | X | 7/19/99 | | 4 | 0.18 |
| RFA 133 | 12H | < 90-day accumulation area | | | Not Located During RFA | | X | | | 1 | 0.18 |
| RFA 134 | 12H | < 90-day accumulation area | | | Not Located During RFA | | X | | | 1 | 0.18 |
| RFA 136 | 11B | Aircraft wash area | | | | | X | | | 1 | 0.18 |
| RFA 141 | 12H | Aircraft wash area | | | | | X | | | 1 | 0.18 |
| RFA 142 | 12H | Drum storage area | | | Not Located During RFA | | X | | | 1 | 0.18 |
| RFA 150 | 12B | Aircraft wash area | | | | | X | | | 1 | 0.18 |
| RFA 152 | 12D | Aircraft wash area | | | | | X | | | 1 | 0.18 |
| RFA 157 | 8 | Vehicle wash rack | | | NFA (field work completed in 1998) | RWQCB | X | 3/31/00 | | 2 | 0.18 |
| RFA 164 | 9B | Vehicle wash rack | | | | | X | | | 3 | 0.18 |
| RFA 170 | 11A | Drum storage area | | | Not Located During RFA | | X | | | 1 | 0.18 |
| RFA 178 | 12G | Vehicle wash rack | | | | | X | | | 1 | 0.18 |
| RFA 181 | 12G | Landfarming area | | | | | X | | | 3 | 0.18 |
| RFA 182 | 12G | Drum storage area | | | Not Located During RFA | | X | | | 1 | 0.18 |
| RFA 183 | 12G | Drum storage area | | | Not Located During RFA | | X | | | 1 | 0.18 |
| RFA 184 | 12G | Drum storage area | | | Not Located During RFA | | X | | | 1 | 0.18 |
| RFA 185 | 12G | Drum storage area | | | Not Located During RFA | | X | | | 1 | 0.18 |
| RFA 195 | 11A | Vehicle wash rack | | | | | X | | | 1 | 0.18 |

SOUTHWESTNAVFACENGCOM
CODE 06CC.LMH
SAN DIEGO, CA 92101

No Further Action Decision Documents for Nearby Locations of Concern



Winston H. Hickox
Secretary for
Environmental
Protection

Department of Toxic Substances Control

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



Gray Davis
Governor

November 24, 1999

Mr. Dean Gould
BRAC Environmental Coordinator
U.S. Marine Corps Air Station - El Toro
P. O. Box 51718
Irvine, California 92619-1718

CLOSURE REPORT APPROVAL FOR TEMPORARY ACCUMULATION AREAS 389A AND 389B, MARINE CORPS AIR STATION EL TORO, CALIFORNIA

Dear Mr. Gould:

The Department of Toxic Substances Control (DTSC) has reviewed the above report dated September 17, 1999 and received by this office on September 27, 1999. The report presents results of the field activities and risk screening conducted at the Temporary Accumulation Areas (TAA) 389A and TAA 389B at the Marine Corps Air Station El Toro. TAA 389A (also known as Solid Waste Management Unit (SWMU) 119) is a Resource Conservation and Recovery Act Facility Assessment site referred to as a Drum Storage Area north of Building 390. TAA 389B (also known as SWMU 259) is referred to as a Drum Storage Area located near a loading ramp approximately 25 feet southwest of TAA 389A. DTSC has the following comments.

1. Please be advised that the latest version of Preliminary Remediation Goals by the United States Environmental Protection Agency (USEPA) Region IX is dated August 1998.
2. It is recommended that future soil sampling for volatile organic compounds (VOCs) utilize test method 5035, which was promulgated by the USEPA as Update III of SW-846. Test method 5035 was introduced to reduce the losses of VOCs in soil samples.

Based on the report, confirmation sampling analytical results were below residential cleanup goals. DTSC concurs with the findings and conclusions of the closure report and we hereby approve it.

Mr. Dean Gould
November 24, 1999
Page 2

If you have any questions, please contact me at (714) 484-5429.

Sincerely,



Alice Gimeno
Southern California Branch
Office of Military Facilities

cc: Mr. Glenn Kistner, SFD-8-2
Remedial Project Manager
U. S. Environmental Protection Agency
Region IX, Superfund Division
75 Hawthorne Street
San Francisco, California 94105-3901

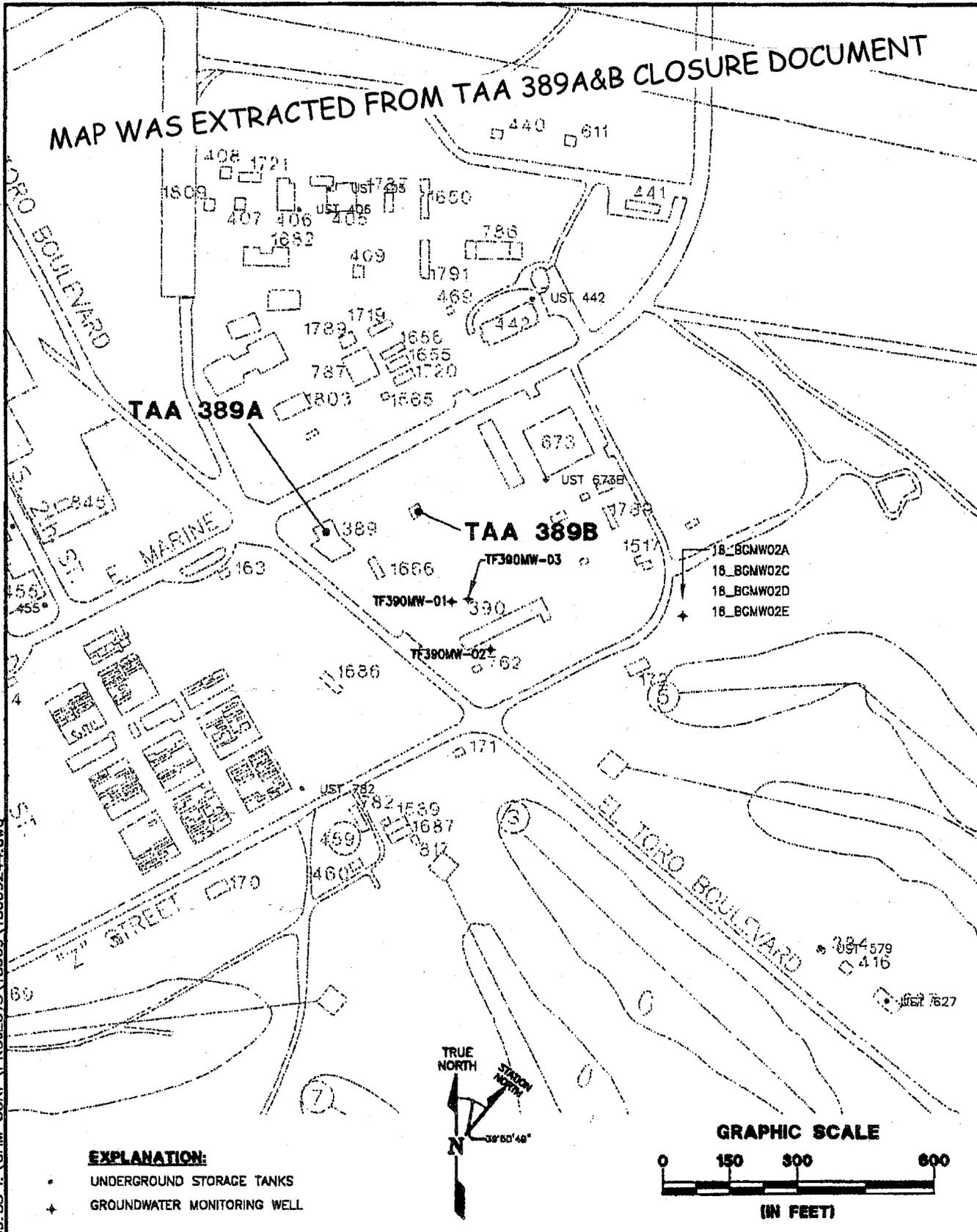
Ms. Patricia Hannon
Remedial Project Manager
California Regional Water Quality Control Board
Santa Ana Region
3737 Main Street, Suite 500
Riverside, California 92501-3339

Mr. Gregory F. Hurley
Restoration Advisory Board Co-chair
620 Newport Center Drive, Suite 450
Newport Beach, California 92660-8019

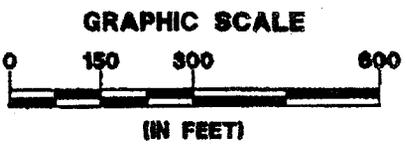
Ms. Polin Modaniou
MCAS El Toro Local Redevelopment Authority
10 Civic Center Plaza, 2nd Floor
Santa Ana, California 92703

Ms. Lynn Hornecker
Remedial Project Manager
Naval Facilities Engineering Command
Southwest Division - Code 5BME.LH
1220 Pacific Highway
San Diego, California 92132-5187

MAP WAS EXTRACTED FROM TAA 389A&B CLOSURE DOCUMENT



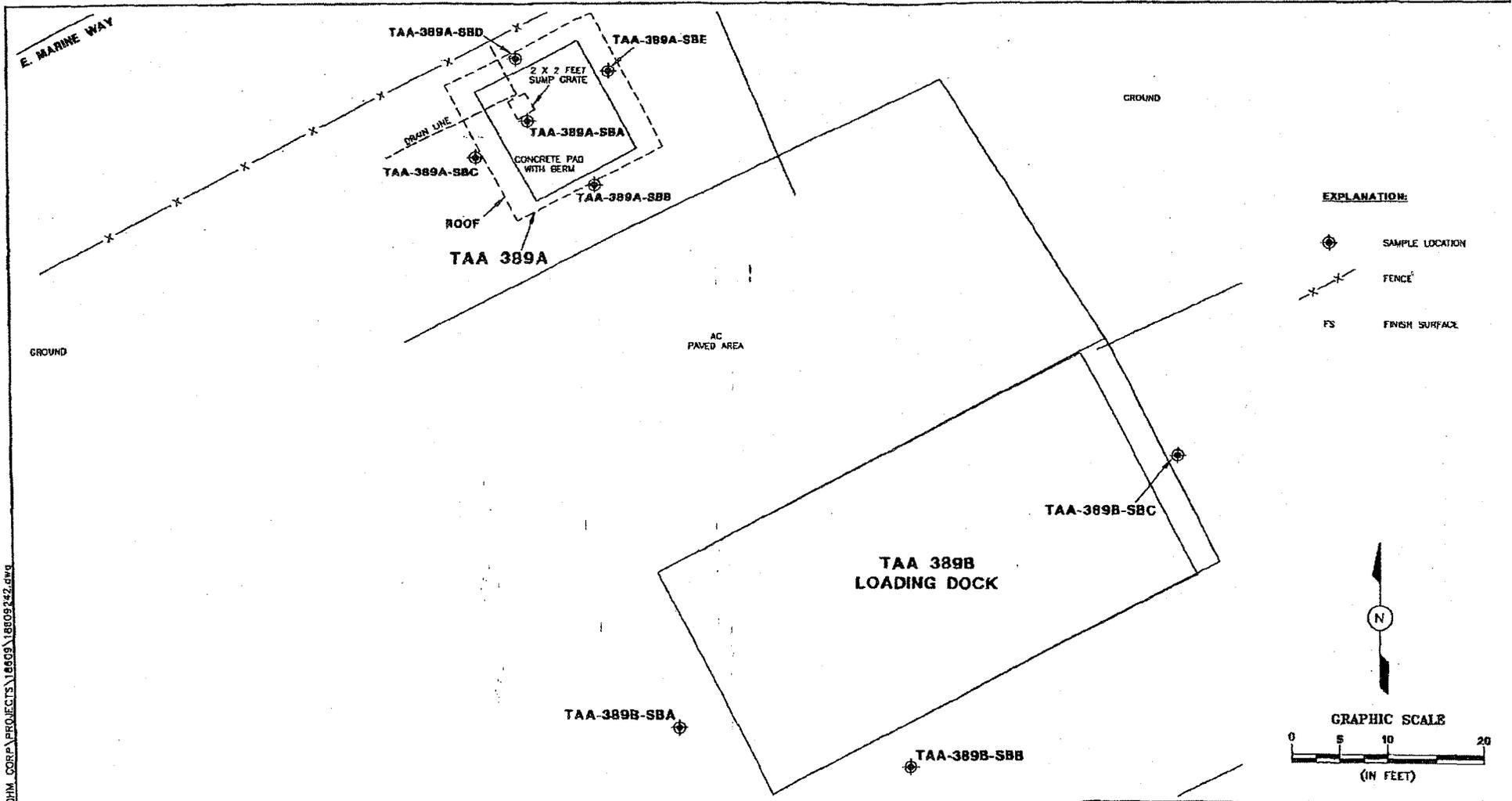
- EXPLANATION:**
- UNDERGROUND STORAGE TANKS
 - + GROUNDWATER MONITORING WELL



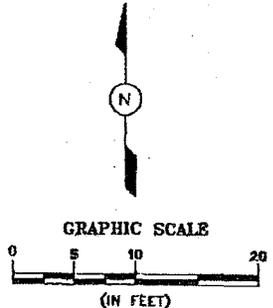
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| | | | | | | | |
|--|---------------------------|-------------------------|---|--|---|-------------------------------|-----------------------|
| <p>OHM Remediation Services Corp. A Subsidiary of OHM Corporation SAN DIEGO, CA</p> | | | <p>DRAWN BY: R. PIRMORADIAN DATE: 09/15/99</p> <p>CHECKED BY: DR DATE: 9/15/99</p> <p>APPROVED BY: DATE:</p> <p>PROJECT MANAGER: W. Sells DATE: 9/17/99</p> | | <p>LOCATION MAP TAA 389A AND TAA 389B</p> <p>MARINE CORPS AIR STATION EL TORO, CALIFORNIA</p> | | |
| <p>CONTRACT NAME: SWDIV</p> | | | | | | | |
| <p>ALTDRAW FILE No. 18609244.DWG</p> | <p>PLOT SCALE 1=1</p> | <p>SHEET OF 1 1</p> | <p>SCALE 1"=300'</p> | <p>DOCUMENT CONTROL No. SW5986</p> | <p>OHM PROJECT No. 18609</p> | <p>FIGURE No. FIG 1-2</p> | <p>REVISION 0</p> |

MAP WAS EXTRACTED FROM TAA 389A&B CLOSURE DOCUMENT



- EXPLANATION:**
- SAMPLE LOCATION
 - FENCE
 - FINISH SURFACE



| REVISIONS | | | |
|-----------|--|------|----------|
| REV. NO. | DESCRIPTION | DATE | APPROVED |
| 01 | 97102-S2.0WG BY CALVADA SURVEYING INC. | | |
| | | | |
| | | | |

| | | | |
|--------------------------------|------------------|---|------------------------|
| CONTRACT NAME SWDIV | | ORM Remediation Services Corp. A Subsidiary of ORR Corporation BURLINGAME, CA | |
| DRAWN BY R. PERIMORADIAN | DATE 09/16/99 | SITE PLAN TAA 389A AND TAA 389B MARINE CORPS AIR STATION EL TORO, CALIFORNIA | |
| CHECKED BY DR | DATE 9/16/99 | | |
| APPROVED BY | DATE | | |
| PROJECT NUMBER 18609242.DWG | | SCALE 1" = 10' | SHEET OF 1 1 |
| DOCUMENT CONTROL No. SW5986 | | ORR PROJECT No. 18609 | DRAWING No. FIG 3-1 |

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SENT BY: 12-28-1 : 2:34PM : EMLON ASSOCIATES- BIR 032 U780: # 110



Department of Toxic Substances Control

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



Winston H. Hickox
Secretary for
Environmental
Protection

June 10, 1999

Gray Davis
Governor

Mr. Joseph Joyce
BRAC Environmental Coordinator
U.S. Marine Corps Air Station - El Toro
AC/S, Environmental (1AU)
P. O. Box 95001
Santa Ana, California 92709-5001

Dear Mr. Joyce:

CLOSURE REPORT APPROVAL: TEMPORARY ACCUMULATION AREAS 390A AND 390B AT MARINE CORPS AIR STATION (MCAS) EL TORO

The Department of Toxic Substances Control (DTSC) has reviewed the above subject document dated May 4, 1999, prepared by OHM Remediation Services Corp. The report summarizes the results of the field activities conducted at the Temporary Accumulation Areas (TAAs) 390A and 390B. TAA 390A (also known as Solid Waste Management Unit (SWMU) 122) a Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) site referred to as Drum Storage Area west of Building 390. TAA 390B is SWMU 261 and 262, a Waste Oil Collection Drum area and a Diesel Fuel Storage Locker area, respectively. Building 390 is located in the southeast quadrant of the Station.

Based on the report, confirmation sampling analytical results were below residential cleanup goals. DTSC concurs with the findings and conclusions of the closure report and we hereby approve it.

If you have any questions, please contact Mr. Tayseer Mahmoud, Remedial Project Manager, at (714) 484-5418.

Sincerely,

Sharon Fair
Unit Chief
Base Closure Unit
Office of Military Facilities

cc: See next page

Mr. Joseph Joyce
June 10, 1999
Page 2

cc: Mr. Glenn Kistner, SFD-8-2
Remedial Project Manager
U. S. Environmental Protection Agency
Region IX
Superfund Division
75 Hawthorne Street
San Francisco, California 94105-3901

Ms. Patricia Hannon
Remedial Project Manager
California Regional Water Quality Control Board
Santa Ana Region
3737 Main Street, Suite 500
Riverside, California 92501-3339

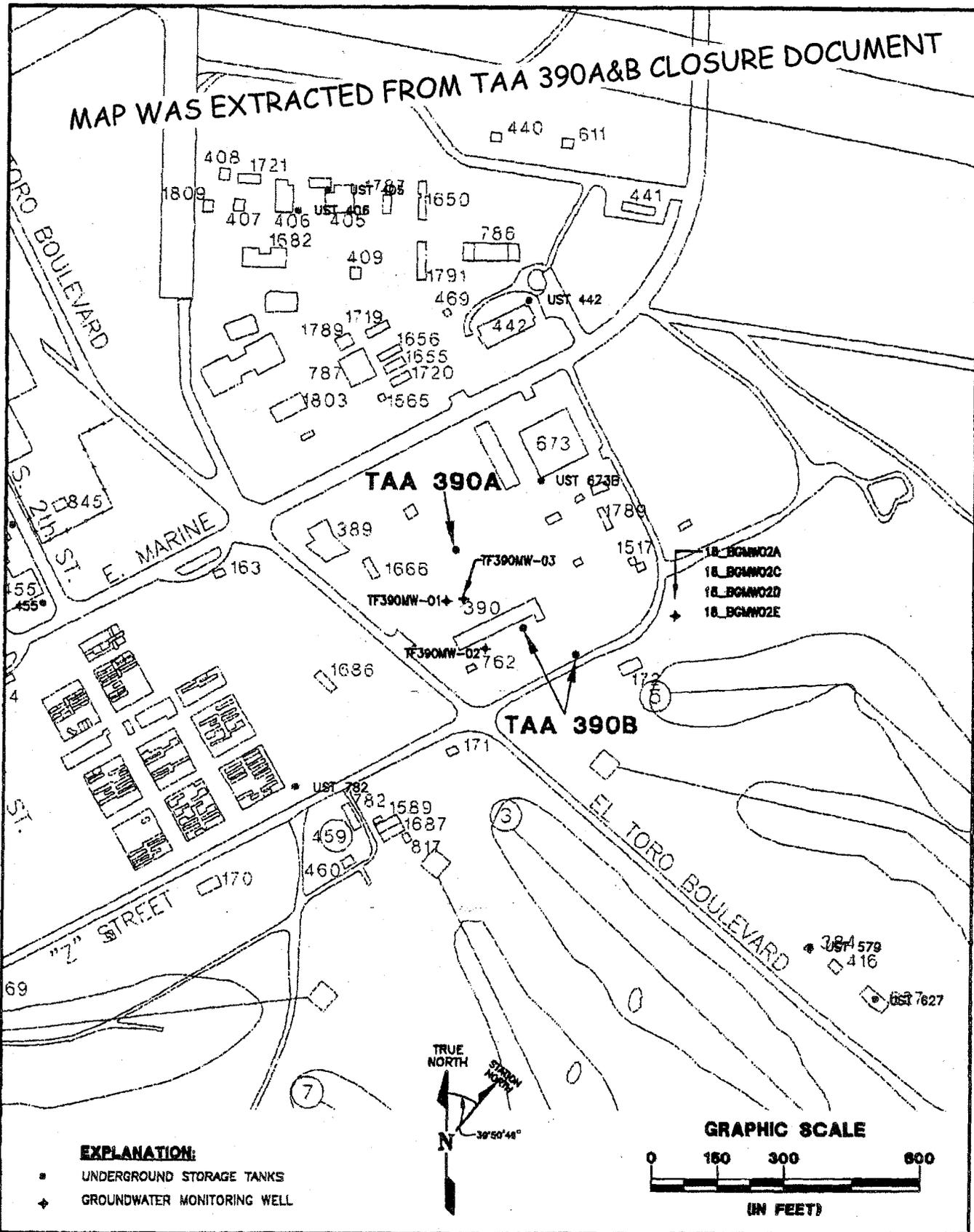
Mr. Gregory F. Hurley
Restoration Advisory Board Co-chair
620 Newport Center Drive, Suite 450
Newport Beach, California 92660-8019

Ms. Polin Modanlou
MCAS El Toro Local Redevelopment Authority
10 Civic Center Plaza, 2nd Floor
Santa Ana, California 92703

Ms. Lynn Hornecker
Remedial Project Manager
Naval Facilities Engineering Command
Southwest Division - Code 5BME.LH
1220 Pacific Highway
San Diego, California 92132-5187

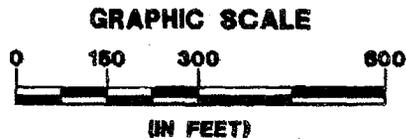
Mr. Bill Sedlak, P.E.
IT Corporation
3347 Michelson Drive, Suite 200
Irvine, California 92612-1692

MAP WAS EXTRACTED FROM TAA 390A&B CLOSURE DOCUMENT



EXPLANATION:

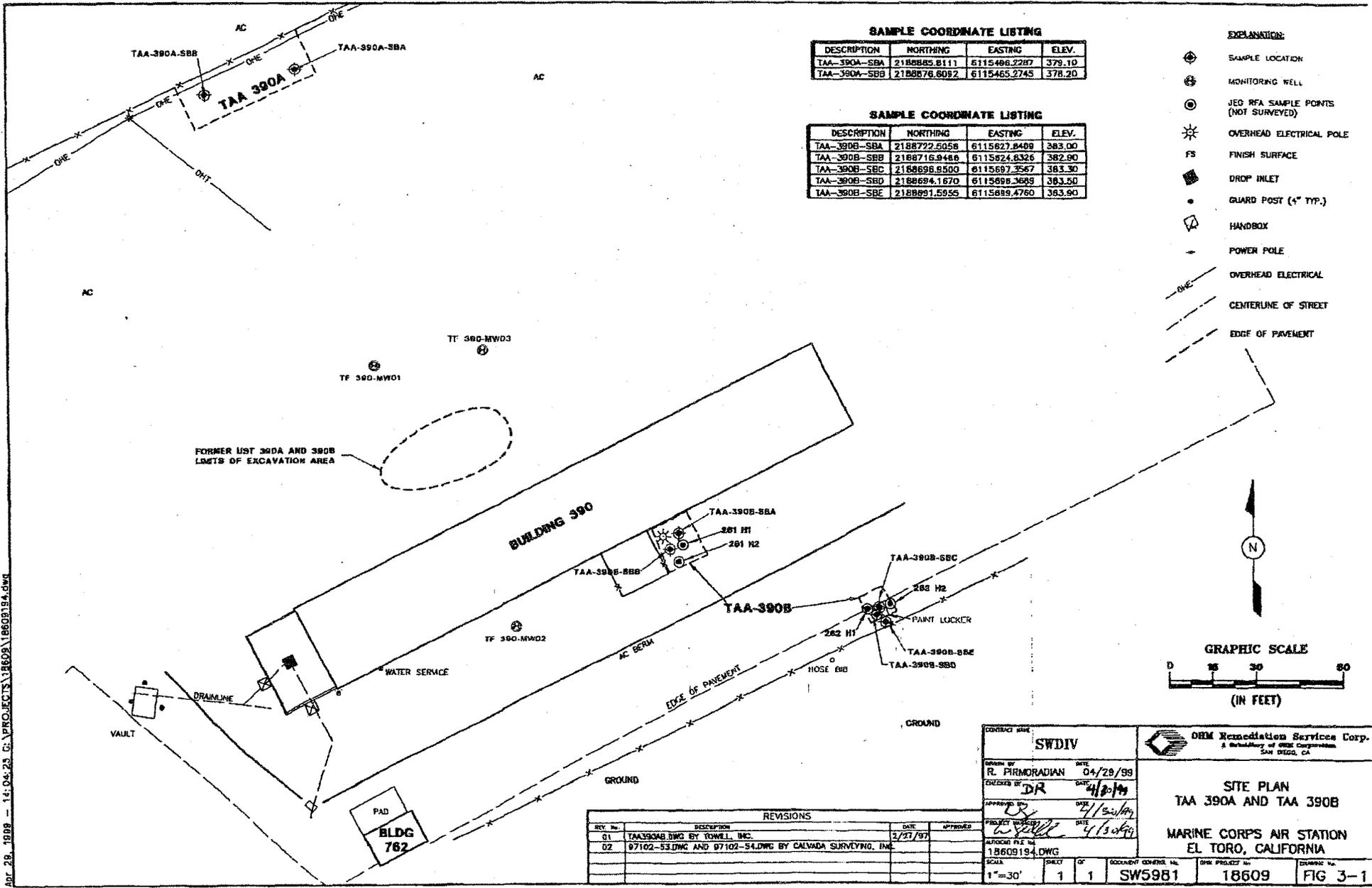
- UNDERGROUND STORAGE TANKS
- ◆ GROUNDWATER MONITORING WELL



Apr 27, 1999 - 11:56:57 G:\PROJECTS\18609\18609193.dwg

| | | | | | | |
|---|---------------------------------------|-----------------------------------|------------------------------|--|--|--|
| OHM Remediation Services Corp. A Subsidiary of OHM Corporation SAN DIEGO, CA | | DRAWN BY R. PIRMORADIAN | DATE 04/27/99 | LOCATION MAP TAA 390A AND TAA 390B MARINE CORPS AIR STATION EL TORO, CALIFORNIA | | |
| CONTRACT NAME SWDIV | | CHECKED BY DR | DATE 4/27/99 | | | |
| AUTOCAD FILE No. 18609193.DWG | | APPROVED BY WJ | DATE 4/30/99 | | | |
| PLOT SCALE 1"=1' | SHEET OF 1 1 | PROJECT MANAGER WJ | DATE 4/30/99 | | | |
| SCALE 1"=300' | DOCUMENT CONTROL No. SW5981 | OHM PROJECT No. 18609 | FIGURE No. FIG 1-2 | REVISION 0 | | |

MAP WAS EXTRACTED FROM TAA 390A&B CLOSURE DOCUMENT



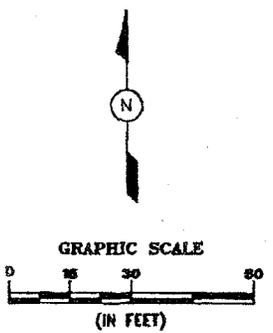
SAMPLE COORDINATE LISTING

| DESCRIPTION | NORTHING | EASTING | ELEV. |
|--------------|--------------|--------------|--------|
| TAA-390A-SBA | 2188885.8111 | 6115486.2287 | 379.10 |
| TAA-390A-SBB | 2188876.8082 | 6115465.2745 | 378.20 |

SAMPLE COORDINATE LISTING

| DESCRIPTION | NORTHING | EASTING | ELEV. |
|--------------|--------------|--------------|--------|
| TAA-390B-SBA | 2188722.5058 | 6115827.8408 | 383.00 |
| TAA-390B-SBB | 2188716.9448 | 6115824.8326 | 382.80 |
| TAA-390B-SBC | 2188696.8500 | 6115887.3567 | 383.30 |
| TAA-390B-SBD | 2188684.1670 | 6115888.3629 | 383.50 |
| TAA-390B-SBE | 2188691.5955 | 6115889.4760 | 383.90 |

- EXPLANATION:**
- ⊙ SAMPLE LOCATION
 - ⊕ MONITORING WELL
 - ⊙ JED RFA SAMPLE POINTS (NOT SURVEYED)
 - ☼ OVERHEAD ELECTRICAL POLE
 - FS FINISH SURFACE
 - ⬇ DROP INLET
 - GUARD POST (4" TYP.)
 - ⊠ HANDBOX
 - POWER POLE
 - OVERHEAD ELECTRICAL
 - CENTERLINE OF STREET
 - EDGE OF PAVEMENT



REVISIONS

| REV. NO. | DESCRIPTION | DATE | APPROVED |
|----------|--|---------|----------|
| 01 | TAA390AB DWG BY ROWEL, INC. | 3/27/97 | |
| 02 | 97102-53.DWG AND 97102-54.DWG BY CALVADA SURVEYING, INC. | | |

| | | | |
|---|-------------------------|---|---------------------------------|
| CONTRACT NAME SWDIV | | OHM Remediation Services Corp. A subsidiary of OHM Corporation SAN DIEGO, CA | |
| DESIGNED BY R. PIRMORADIAN | DATE 04/29/99 | SITE PLAN TAA 390A AND TAA 390B MARINE CORPS AIR STATION EL TORO, CALIFORNIA | |
| ENGINEER BY DR | DATE 4/30/99 | | |
| APPROVED BY <i>[Signature]</i> | DATE 4/13/99 | PROJECT NUMBER 18609194.DWG | |
| ALIGNED FILE NO. 18609194.DWG | DATE 4/13/99 | | |
| SCALE 1"=30' | SHEET OF 1 1 | DOCUMENT CONTROL NO. SW5981 | DWG PROJECT NO. 18609 |
| | | DRAWING NO. FIG 3-1 | |

Apr. 29, 1999 - 14:04:23 C:\PROJECTS\18609\18609194.DWG



**COUNTY OF ORANGE
HEALTH CARE AGENCY**

**PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH**

**TOM URAM
DIRECTOR**

**HUGH F. STALLWORTH, M.D.
HEALTH OFFICER**

**JACK MILLER, REHS
DEPUTY DIRECTOR**

**MAILING ADDRESS
2009 EAST EDINGER AVENUE
SANTA ANA, CA 92705-4100**

**TELEPHONE (714) 667-3600
FAX (714) 972-5714**

July 2, 1997

LT. Hope Katcharian
Director, Environmental Engineering Division
Commanding General
AC/S Environmental IAU
Marine Corps Air Station El Toro
P.O. Box 95001
Santa Ana, CA 92709-5001

Subject: Completion of Tank Removal Project

**RE: Marine Corps Air Station El Toro
Oil/Water Separator #762A and Tank #762B
Santa Ana, CA 92709**

Dear Lt. Katcharian:

This is in response to your request for a confirmation of the completion of the tank removal project. With the provision that the results for the soil samples obtained during the tank removal on January 22, 1997, 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,

William J. Diekmann, M.S., REHS
Supervising Hazardous Waste Specialist
Hazardous Materials Management Section
Environmental Health Division

cc: Larry Vitale, Santa Ana Regional Water Quality Control Board



Winston H. Hickox
Secretary for
Environmental
Protection

Department of Toxic Substances Control

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

August 10, 1999



Gray Davis
Governor

Mr. Dean Gould
BRAC Environmental Coordinator
U.S. Marine Corps Air Station - El Toro
P. O. Box 51718
Irvine, California 92619-1718

CLOSURE REPORT APPROVAL: SOLID WASTE MANAGEMENT UNIT (SWMU) 46 AT MARINE CORPS AIR STATION (MCAS) EL TORO

Dear Mr. Gould:

The Department of Toxic Substances Control (DTSC) has reviewed the closure report for the above subject site dated May 28, 1999, prepared by OHM Remediation Services Corp. We also reviewed a Supplement to the Closure Report dated July 30, 1999 pertaining to the risk characterization. The report summarizes the results of the field verification activities conducted at SWMU 46, a Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) site referred to as "Defense Reutilization and Marketing Office (DRMO), Yard 2" at MCAS El Toro. The SWMU 46 site is located in the southeast quadrant of the Station, west of Borrego Canyon Wash, and north of the golf course. The former DRMO equipment storage yard consists of a fenced area, approximately 3 acres in size, with an unpaved gravel surface.

Based on the report, the site related residential cancer risk and non cancer hazard indexes are within the acceptable ranges. DTSC, therefore concurs with the findings and conclusions of the closure report, and the report is hereby approved.

If you have any questions, please contact Mr. Tayseer Mahmoud, Remedial Project Manager, at (714) 484-5418.

Sincerely,

Sharon Fair, Unit Chief
Base Closure Unit
Office of Military Facilities

cc: See next page

Mr. Dean Gould

August 10, 1999

Page 2

cc: Mr. Glenn Kistner, SFD-8-2
Remedial Project Manager
U. S. Environmental Protection Agency
Region IX
Superfund Division
75 Hawthorne Street
San Francisco, California 94105-3901

Ms. Patricia Hannon
Remedial Project Manager
California Regional Water Quality Control Board
Santa Ana Region
3737 Main Street, Suite 500
Riverside, California 92501-3339

Mr. Gregory F. Hurley
Restoration Advisory Board Co-chair
620 Newport Center Drive, Suite 450
Newport Beach, California 92660-8019

Ms. Polin Modanlou
MCAS El Toro Local Redevelopment Authority
10 Civic Center Plaza, 2nd Floor
Santa Ana, California 92703

Mr. Bill Sedlak
IT Corporation
3347 Michelson Drive, Suite 200
Irvine, California 92612-1692

Ms. Lynn Hornecker
Remedial Project Manager
Naval Facilities Engineering Command
Southwest Division - Code 5BME.LH
1220 Pacific Highway
San Diego, California 92132-5187

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

Region 4
245 West Broadway, Suite 425
1 Beach, CA 90802-4444



March 8, 1996

Mr. Dennis M. Bevis
Lieutenant Colonel, U.S. Marine Corps
Deputy Assistant Chief of Staff
Environment and Safety
Headquarters Marine Corps Air Station El Toro
P.O. Box 95001
Santa Ana, California 92709-5001

Dear Colonel Bevis:

**ACCEPTANCE OF CLOSURE CERTIFICATION: HAZARDOUS WASTE STORAGE AREA
(BUILDING 673-T3), MARINE CORPS AIR STATION EL TORO, SANTA ANA,
CALIFORNIA (EPA ID NO. CA6170023208)**

The Department of Toxic Substances Control (DTSC) has reviewed the Final Closure Certification Report for a hazardous waste container storage area at Marine Corps Air Station (MCAS) El Toro, dated November 1995. The Closure Certification Report certifies that you have closed the subject hazardous waste container storage area in accordance with the DTSC approved Closure Plan which was part of the Resource Conservation and Recovery Act (RCRA) Permit issued in August 1993. The DTSC hereby accepts the closure certification report and considers the container storage area (Building 673-T3) closed. Issuance of this letter terminates the RCRA Permit and MCAS El Toro shall cease storing hazardous waste in Building 673-T3 for periods greater than ninety (90) days.

The DTSC's acceptance does not certify that the hazardous waste storage area will not pose an environmental or public health threat. Neither does this acceptance release you from any liabilities associated with past hazardous waste management practices which occurred at your facility. Pursuant to the Health and Safety Code, Section 25187, the DTSC may issue an order specifying corrective action if the DTSC determines that there has been a release of hazardous waste or constituents into the environment from any solid waste management units or areas at

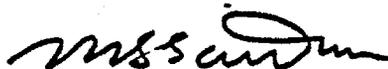


Mr. Dennis Bevis
March 8, 1996
Page 2

a hazardous waste facility from which hazardous constituents might migrate, irrespective of whether the units or areas were intended for the management of wastes.

If you have any questions regarding this matter, please contact Mr. Tayseer Mahmoud at (310) 590-4891.

Sincerely,



Mohinder S. Sandhu, P.E., Chief
Facility Permitting Branch

cc: Mr. John C. Scandura, Chief
Southern California Operations
Office of Military Facilities
Department of Toxic Substances Control
245 West Broadway, Suite 350
Long Beach, California 90802-4444

Ms. Paula Bisson, Chief
Permits Section
Hazardous Waste Management Division (H-3-1)
U.S. Environmental Protection Agency
Region IX
75 Hawthorne Street
San Francisco, California 94105

Mr. Scott Simpson, Chief
Statewide Compliance Branch
Department of Toxic Substances Control
245 West Broadway, Suite 350
Long Beach, California 90802-4444

Mr. Dennis Bevis

March 8, 1996

Page 3

cc: Mr. Tayseer Mahmoud
Remedial Project Manager
Southern California Operations
Office of Military Facilities
Department of Toxic Substances Control
245 West Broadway, Suite 350
Long Beach, California 90802-4444

Lieutenant Hope Katcharian
MCAS El Toro Director
Environmental Department
Marine Corps Air Station El Toro
P.O. Box 95001
Santa Ana California 92709

Ms. DeAnna Dunbar
Remedial Project Manager
Naval Facilities Engineering Command
Southwest Division
Code 1831.DD
1220 Pacific Highway
San Diego, California 92132-5187

Mr. Vish Parpiani
Installation Restoration Program Manager
Environmental and Safety
Marine Corps Air Station El Toro
P.O. Box 95001
Santa Ana California 92709

Mr. Gerard Thibeault
Executive Officer
California Regional Water Quality Control Board
Santa Ana Region
3737 Main Street, Suite 500
Riverside, California 92501-3339

Mr. Dennis Bevis
March 8, 1996
Page 4

cc: Mr. Robert E. Merryman
Director, Environmental Health
Orange County Health Care Agency
2009 E Edinger
Santa Ana, California 92705

Ms. Carmen Santos
DTSC Region 4 Liaison
Corrective Action Section (H-3-2)
U. S. Environmental Protection Agency
Region IX
75 Hawthorne Street
San Francisco, California 94105



Department of Toxic Substances Control

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

Winston H. Hickox
Secretary for
Environmental
Protection



Gray Davis
Governor

February 1, 2000

Mr. Dean Gould
BRAC Environmental Coordinator
Marine Corps Air Station El Toro
BRAC Operations Office
1220 Pacific Highway
San Diego, California 92132-5190

SUMMARY REPORT FOR AERIAL PHOTOGRAPH ANOMALY APHO 12, MARINE CORPS AIR STATION (MCAS) EL TORO

Dear Mr. Gould:

The Department of Toxic Substances Control (DTSC) reviewed the above report dated November 15, 1999 and received by this office on November 22, 1999. The report presents the results of the record search activities and visual inspection of APHO 12 (also referenced as Science Applications International Corporation (SAIC) 92). APHO 12 consists of two separate areas, one within the boundary of the Defense Reutilization and Marketing Office (DRMO) Yard 2 and the other at Building 457. The anomaly was identified on an aerial photograph dated February 21, 1958 and described as wet soils in the open field between East Marine Way and Z Street.

The report recommends a no further action status for APHO 12 based on evaluation of field inspection results, environmental program documents, and historical property records. Evidence of wet soil or staining was not observed during the visual site inspection conducted by the Navy on November 10, 1999.

APHO 12 includes two sites that were investigated under the Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) Program, Solid Waste Management Unit (SWMU) 46 (also referenced as Defense Reutilization and Marketing Office (DRMO) Yard 2) and SWMU 244 (a polychlorinated biphenyl (PCB) spill area at Building 457). DTSC concurred with a status of no further action for both sites.

Mr. Dean Gould
February 1, 2000
Page 2

Additionally, the report recommends that the comments for APHO 12 in Table 3-2 in the Base Realignment and Closure (BRAC) Cleanup Plan (BCP) be revised to correlate to the description provided in the SAIC *Final Report, Aerial Photograph Assessment, MCAS El Toro* as follows: "APHO 12, identified on a 1958 photograph as SAIC 92, is described as wet soils in two areas: one area in the southeast section of DRMO Yard 2 and one area at Building 457." Based on clarification provided by the Navy, DTSC understands that these revisions are necessary to correct previous transcription errors from the SAIC Final Report to the BCP.

Based on review of the summary report, DTSC concurs with the proposed no further action status designation and comment revision for APHO 12. The no further action status and revised comment in Table 3-2 must be documented in the next BCP update.

If you have any questions, please contact me at (714) 484-5395.

Sincerely,



Triss M. Chesney, P.E.
Remedial Project Manager
Southern California Branch
Office of Military Facilities

cc: Mr. Glenn Kistner
Remedial Project Manager
U. S. Environmental Protection Agency Region IX
Superfund Division (SFD-8-2)
75 Hawthorne Street
San Francisco, California 94105-3901

Ms. Patricia Hannon
Remedial Project Manager
California Regional Water Quality Control Board
Santa Ana Region
3737 Main Street, Suite 500
Riverside, California 92501-3339

Mr. Dean Gould
February 1, 2000
Page 3

cc: Mr. Gregory F. Hurley
Restoration Advisory Board Co-chair
620 Newport Center Drive, Suite 450
Newport Beach, California 92660-8019

Ms. Polin Modanlou
MCAS El Toro Local Redevelopment Authority
10 Civic Center Plaza, 2nd Floor
Santa Ana, California 92703

Ms. Lynn Hornecker
Remedial Project Manager
Naval Facilities Engineering Command
Southwest Division - Code 5BME.LH
1220 Pacific Highway
San Diego, California 92132-5187

MAP WAS EXTRACTED FROM THE APHO 12 SUMMARY REPORT.

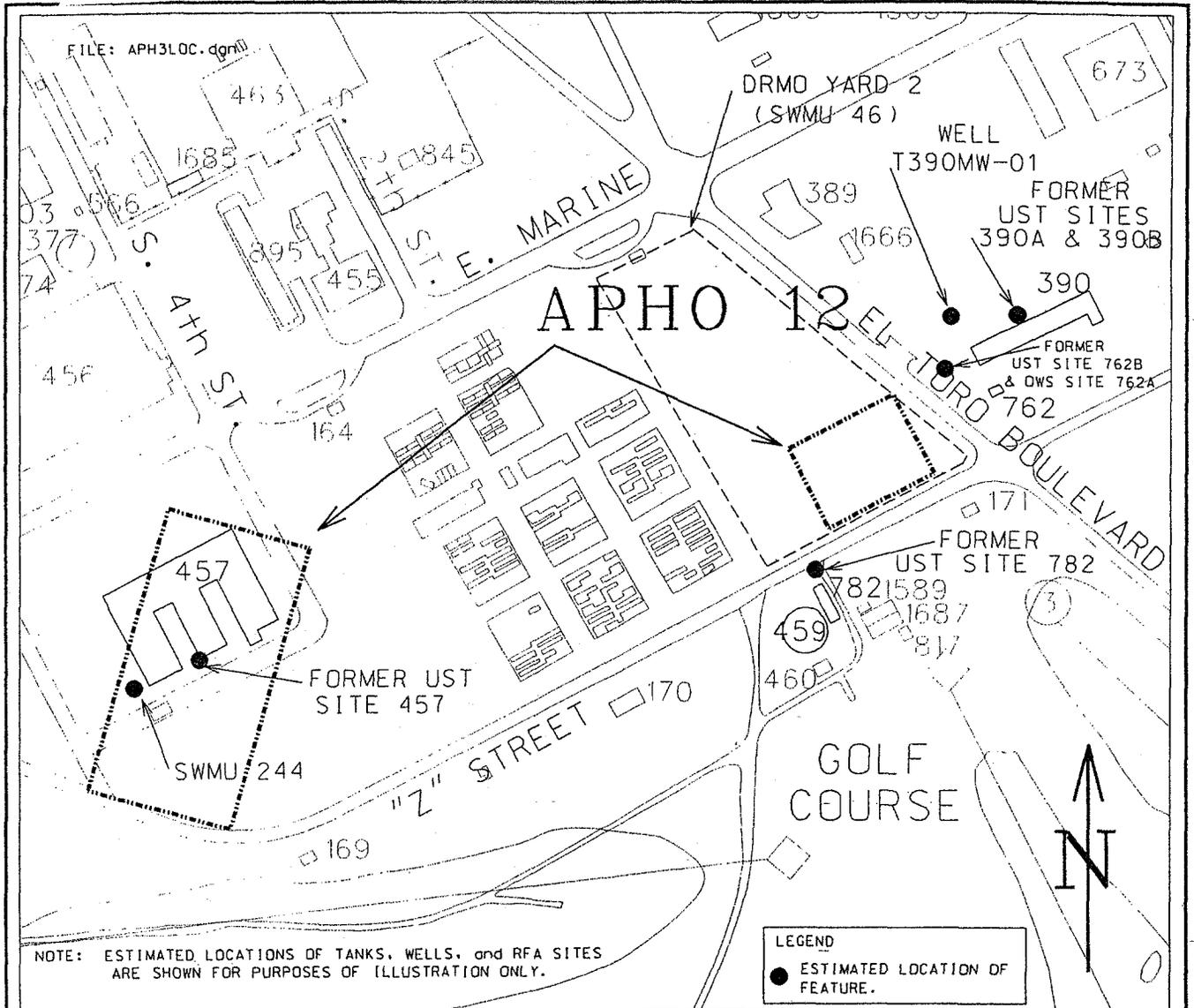


Figure 2.
AERIAL PHOTOGRAPH ANOMALY PROGRAM
NEARBY ENVIRONMENTAL
LOCATIONS OF CONCERN
MARINE CORPS AIR STATION, EL TORO



Department of Toxic Substances Control



Winston H. Hickox
Agency Secretary
California Environmental
Protection Agency

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

Gray Davis
Governor

March 3, 2000

Mr. Dean Gould
BRAC Environmental Coordinator
Marine Corps Air Station El Toro
BRAC Operations Office
1220 Pacific Highway
San Diego, California 92132-5190

SUMMARY REPORT FOR AERIAL PHOTOGRAPH ANOMALIES APHO 20 AND APHO 21, MARINE CORPS AIR STATION (MCAS) EL TORO

Dear Mr. Gould:

The Department of Toxic Substances Control (DTSC) reviewed the above report dated November 30, 1999 and received by this office on December 10, 1999. The report presents the results of the record search activities and visual inspection of APHO 20 (also referenced as Science Applications International Corporation (SAIC) 164) and APHO 21 (SAIC 165). Both anomalies were identified on an aerial photograph dated June 27, 1967. APHO 20 was described as a possible excavation and APHO 21 was described as an open storage area. Both are located near the intersection of Z Street and North 3rd Street. Since APHO 20 and APHO 21 are located in close proximity to each other, the areas were combined and record search activities and visual inspection were conducted for the APHO 20/21 vicinity.

The report recommends a no further action status for APHO 20 and APHO 21 based on evaluation of field inspection results, environmental program documents, and historical property records. Evidence of excavations, disturbed ground, open storage activities, or liquids was not observed during the visual site inspection conducted by the Navy on November 10, 1999. It is possible open storage activities that were identified as APHO 21 were associated with storage activities at Defense Reutilization and Marketing Office (DRMO) Yard 3.

The APHO 20/21 vicinity includes part of the DRMO Yard 3 that was investigated as Solid Waste Management Unit (SWMU) 264 during the Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA). No further action was recommended

Mr. Dean Gould
March 3, 2000
Page 2

for DRMO Yard 3 in the *Installation Restoration Program, Final Resource Conservation and Recovery Act Facility Assessment Report for Marine Corps Air Station, El Toro, California*, prepared by Jacobs Engineering Group, dated July 16, 1993. However, a radiological survey will be conducted at DRMO Yard 3 as part of the Historical Radiological Assessment Program and the site continues to be managed under the RFA program.

A former hazardous waste temporary accumulation area (TAA) 772 (also referenced in the RFA as SWMU 225) is also included in the APHO 20/21 vicinity. Closure of TAA 772 is being managed under the RFA program.

Additionally, the report recommends that the description for APHO 20 in the next Base Realignment and Closure (BRAC) Cleanup Plan (BCP) update be revised to correlate to the description provided in the SAIC *Final Report, Aerial Photograph Assessment, MCAS El Toro* as follows: "APHO 20, identified as SAIC 164 on a 1967 photograph, is located near Z Street and North 3rd Street and includes part of DRMO Yard 3." And the description of APHO 21 be revised as follows, "APHO 21, identified as SAIC 165 on a 1967 photograph, is located near Z Street and North 3rd Street and includes part of DRMO Yard 3." Based on clarification provided by the Navy, DTSC understands that these revisions are necessary to correct previous transcription errors from the SAIC Final Report to the BCP.

Based on review of the summary report and since DRMO Yard 3 and TAA 772 are being managed under the RFA program, DTSC concurs with the proposed no further action status designation and comment revision for APHO 20 and APHO 21. The no further action status and revised description must be documented in the next BCP update.

If you have any questions, please contact me at (714) 484-5395.

Sincerely,



Triss M. Chesney, P.E.
Remedial Project Manager
Southern California Branch
Office of Military Facilities

cc: See next page

Mr. Dean Gould
March 3, 2000
Page 3

cc: Mr. Glenn Kistner
Remedial Project Manager
U. S. Environmental Protection Agency Region IX
Superfund Division (SFD-8-2)
75 Hawthorne Street
San Francisco, California 94105-3901

Ms. Patricia Hannon
Remedial Project Manager
California Regional Water Quality Control Board
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3737 Main Street, Suite 500
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Mr. Gregory F. Hurley
Restoration Advisory Board Co-chair
620 Newport Center Drive, Suite 450
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Ms. Polin Modanlou
MCAS El Toro Local Redevelopment Authority
10 Civic Center Plaza, 2nd Floor
Santa Ana, California 92703

Ms. Lynn Homecker
Remedial Project Manager
Naval Facilities Engineering Command
Southwest Division - Code 5BME.LH
1220 Pacific Highway
San Diego, California 92132-5187



Department of Toxic Substances Control



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

Winston H. Hickox
Agency Secretary
California Environmental
Protection Agency

Gray Davis
Governor

June 14, 2000

Mr. Dean Gould
BRAC Environmental Coordinator
Marine Corps Air Station El Toro
Base Realignment and Closure
P.O. Box 51718
Irvine, California 92619-1718

SUMMARY REPORT FOR AERIAL PHOTOGRAPH ANOMALY APHO 51, MARINE CORPS AIR STATION (MCAS) EL TORO

Dear Mr. Gould:

The Department of Toxic Substances Control (DTSC) reviewed the above report dated February 24, 2000 and received by this office on March 6, 2000. The report presents the results of the record search activities and visual inspection of APHO 51 (also referenced as Science Applications International Corporation (SAIC) 452). APHO 51 was identified on an aerial photograph dated October 30, 1981 and was described as a stained area about 10 feet by 20 feet located approximately 800 feet southeast of Building 673.

The report recommends a status of no further action for APHO 51 based on evaluation of field inspection results, environmental program documents, and historical property records. Evidence of stains or discolored areas were not observed during the visual inspections conducted by the Navy on November 10, 1999 and February 24, 2000. Evidence of prior use of the APHO 51 area for storage of hazardous substances was not found during review of environmental program documents and historical property records. Additionally, APHO 51 is included in the Desert Storm Staging Area (MSC D1). Sampling conducted for MSC D1 does not indicate that a release occurred at APHO 51.

The report recommends that comments for APHO 51 in the next Base Realignment and Closure (BRAC) Business Plan update be revised to correlate to the description provided in the SAIC *Final Report, Aerial Photograph Assessment, MCAS El Toro* as follows: "APHO 51 (identified as SAIC 452 on a 1981 photograph) is described as a

Mr. Dean Gould
June 14, 2000
Page 2

stain located approximately 800 feet southeast of Building 673 in the SWMU 181 vicinity." Based on clarification provided by the Navy, DTSC understands that these revisions are necessary to correct previous transcription errors from the SAIC Final Report to the BRAC Cleanup Plan (predecessor to the BRAC Business Plan).

Based on review of the summary report, DTSC concurs with the proposed status of no further action and comment revision for APHO 51. The no further action status and revised comment must be documented in the next Business Plan update.

If you have any questions, please contact me at (714) 484-5395.

Sincerely,



Triss M. Chesney, P.E.
Remedial Project Manager
Southern California Branch
Office of Military Facilities

cc: Mr. Glenn Kistner
Remedial Project Manager
U. S. Environmental Protection Agency Region IX
Superfund Division (SFD-8-2)
75 Hawthorne Street
San Francisco, California 94105-3901

Ms. Patricia Hannon
Remedial Project Manager
California Regional Water Quality Control Board
Santa Ana Region
3737 Main Street, Suite 500
Riverside, California 92501-3339

Mr. Gregory F. Hurley
Restoration Advisory Board Co-chair
620 Newport Center Drive, Suite 450
Newport Beach, California 92660-8019

Mr. Dean Gould
June 14, 2000
Page 3

cc: Ms. Polin Modanlou
MCAS El Toro Local Redevelopment Authority
10 Civic Center Plaza, 2nd Floor
Santa Ana, California 92703

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

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

EXTRACTS

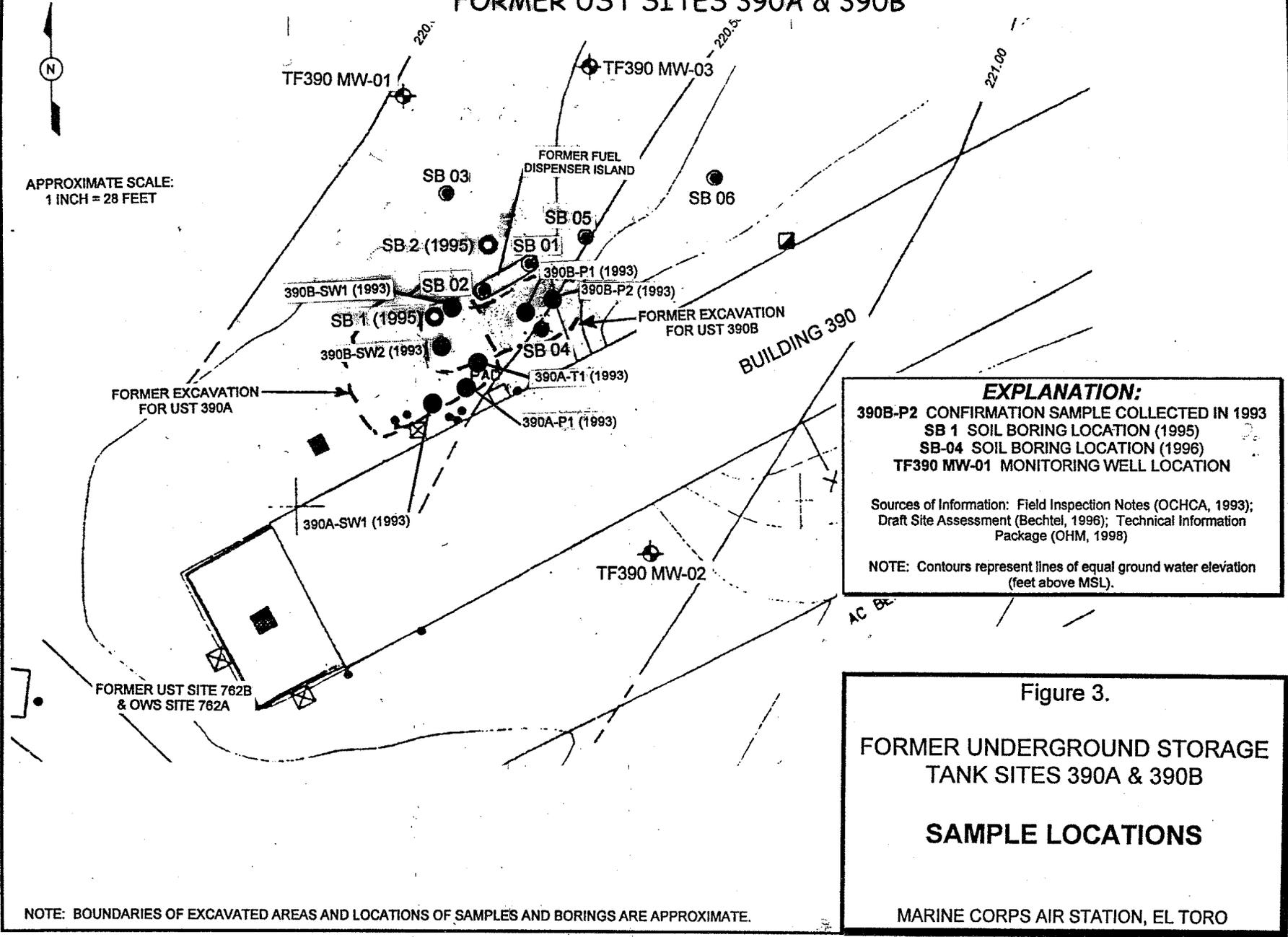
Site Assessment Report

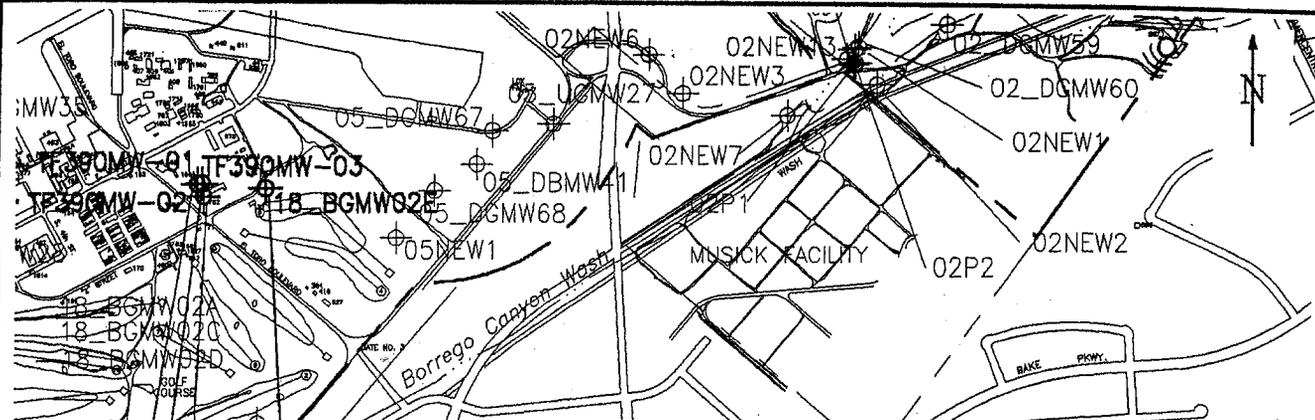
Former Underground Storage Tank Sites 390A and 390B
Marine Corps Air Station, El Toro, California

9 February 1999

Prepared by
Southwest Division, Naval Facilities Engineering Command
BRAC Operations Office
San Diego, California

MAP WAS EXTRACTED FROM SITE ASSESSMENT REPORT FOR
FORMER UST SITES 390A & 390B





| 18 BGMW02E | Date: | 9/19/96 | 1/21/97 | 5/6/97 | 12/2/97 | 3/3/98 |
|--------------------------------|-------|---------|---------|--------|---------|--------|
| EPA 8020 | Unit | | | | | |
| Benzene | µg/L | .3 U | .3 U | NA | NA | NA |
| Ethylbenzene | µg/L | .3 U | .3 U | NA | NA | NA |
| Methyl tert-butyl ether (MTBE) | µg/L | 1 U | 1 U | NA | NA | NA |
| Toluene | µg/L | .3 U | .3 U | NA | NA | NA |
| Xylenes (total) | µg/L | 1 U | 1 U | NA | NA | NA |

| T390MW-03 | Date: | 9/19/96 | 1/21/97 | 5/6/97 | 12/2/97 | 3/3/98 |
|--------------------------------|-------|---------|---------|--------|---------|--------|
| EPA 8020 | Unit | | | | | |
| Benzene | µg/L | .3 U | .3 U | .3 U | .3 U | .3 U |
| Ethylbenzene | µg/L | .3 U | .3 U | .3 U | .3 U | .3 U |
| Methyl tert-butyl ether (MTBE) | µg/L | 1 U | 1 U | 1 U | NA | 1 U |
| Toluene | µg/L | .3 U | .3 U | .3 U | .3 U | .3 U |
| Xylenes (total) | µg/L | 1 U | 1 U | 1 U | 1 U | 1 U |

| T390MW-02 | Date: | 9/19/96 | 1/21/97 | 5/6/97 | 8/14/97 | 12/2/97 | 3/2/98 |
|--------------------------------|-------|---------|---------|--------|---------|---------|--------|
| EPA 8020 | Unit | | | | | | |
| Benzene | µg/L | .3 U | .3 U | .3 U | .3 U | NA | NA |
| Ethylbenzene | µg/L | .3 U | .3 U | .3 U | .3 U | NA | NA |
| Methyl tert-butyl ether (MTBE) | µg/L | 1 U | 1 U | 1 U | NA | NA | NA |
| Toluene | µg/L | .3 U | .3 U | .3 U | .3 U | NA | NA |
| Xylenes (total) | µg/L | 1 U | 1 U | 1 U | 1 U | NA | NA |

| T390MW-01 | Date: | 9/19/96 | 1/21/97 | 5/6/97 | 8/14/97 | 12/2/97 | 3/2/98 |
|--------------------------------|-------|---------|---------|--------|---------|---------|--------|
| EPA 8020 | Unit | | | | | | |
| Benzene | µg/L | 4.0 | .3 U | .3 U | .3 U | .3 U | .3 U |
| Ethylbenzene | µg/L | .3 U | .3 U | .3 U | .3 U | .3 U | .3 U |
| Methyl tert-butyl ether (MTBE) | µg/L | 1 U | 1 U | 1 U | NA | NA | 1 U |
| Toluene | µg/L | .3 U | .3 U | .3 U | .3 U | .3 U | .3 U |
| Xylenes (total) | µg/L | 1.9 | 1 U | 1 U | 1 U | 1 U | 1 U |

APPROXIMATE SCALE: 1 INCH = 1,600 FEET

SOURCES OF INFORMATION:
OHM, 1997; SWDIV, 1998.

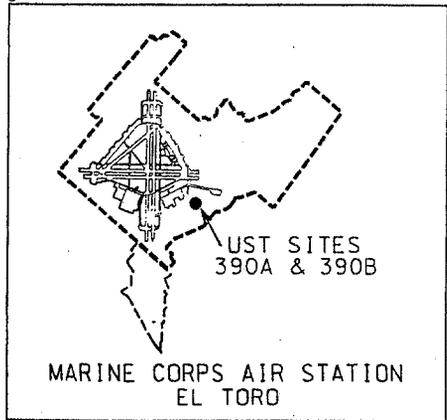


Figure 4.
FORMER UNDERGROUND STORAGE TANK SITES 390A & 390B
GROUND WATER CONDITIONS
MARINE CORPS AIR STATION, EL TORO