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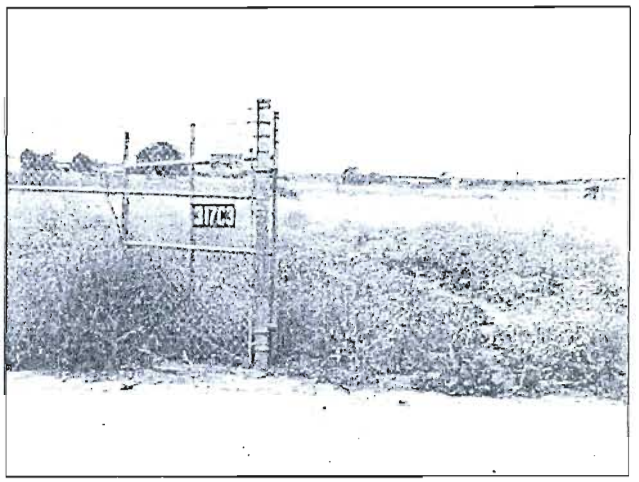
MCAS EL TORO
SSIC NO. 5090.3.A

NAVFAC
Naval Facilities Engineering Command
SOUTHWEST DIVISION

INFORMATION PACKAGE

Aerial Photograph Anomaly APHO 122 (SAIC 570)
Former Open Storage Area
Former Marine Corps Air Station, El Toro



12 March 2004

Naval Facilities Engineering Command
Southwest Division

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Summary

APHO 122 (SAIC 570)
Former Open Storage Area
Former Marine Corps Air Station (MCAS), El Toro
Dates of Visual Inspections: May 2003, 24 February 2004, and 10 March 2004

Overview of Historical Information

APHO 122 (SAIC 570) was identified by Science Applications International Corporation (SAIC) on an aerial photograph taken on 20 August 1955. The SAIC description of the anomaly follows: "An open storage (OS) area is located westerly of Building 317, near M Street, between S 15th Street and Perimeter Road. Additional investigation is recommended." Excerpts from the *Final Report, Aerial Photograph Assessment, MCAS El Toro* (SAIC 1993) are included with the exhibits to this document.

The California Department of Toxic Substances Control (DTSC) recommended further evaluation of SAIC 570 (also known as APHO 122) in their letter dated 12 May 1999. The anomaly is located within fenced areas northwest of Building 317 in the southwestern section of the facility adjacent to the railroad tracks. APHO 122 overlies the Volatile Organic Compound (VOC) plume that originates at Installation Restoration Program (IRP) Site 24. The APHO 122 vicinity is shown on Figure 1.

The APHO 122 investigation area encompasses an area approximately 300 feet wide by 600 feet long (approximately 180,000 square feet) based upon the area of the fenced open storage areas northwest of Building 317 and the information in the *Final Report, Aerial Photograph Assessment, MCAS El Toro* (SAIC 1993). The site includes two storage areas – one large area located adjacent to the perimeter fence and a smaller area located northeast of the large area. The large storage area is divided by interior fences into smaller areas.

Building 317, constructed in 1945, has been used as a warehouse and administrative office. A facility map dated 1951 shows that petroleum products were stored at APHO 122 (northwest of Building 317), and petroleum products may have been in storage in 1955 when the aerial photograph showing the anomaly was taken. The 1951 map shows two storage areas for drums of petroleum products, and the two storage areas are located within the large fenced storage area adjacent to the perimeter fence. The 1951 map shows one area designated for storage of high flash petroleum products (southeast end of storage area) and the other area designated for storage of low flash petroleum products (northwest end of storage area). The storage area is approximately 600 feet long by 125 feet wide, according to the 1951 map. The second storage area (smaller area), located northeast of the railroad tracks, was constructed after the 1951 map was prepared, however, the date of the construction was not available at the time the information package was prepared.

Storage areas located northwest of Building 317 have been designated 317C1, 317C2, and 317C3 in the historical Storm Water Pollution Prevention Plan (SWPPP) (Integrated Environmental Management 1997). According to the SWPPP, 317C1 was used by the Federal Disposal Serve, 317C2 was used by the former landscape maintenance contractor at the station, and no tenant was identified for 317C3. According to the SWPPP, petroleum hydrocarbons, pesticides, and herbicides were stored at APHO 122. Also, according to the SWPPP, cleaning compounds were used or stored at Building 317, and Building 317 was designated as a commissary warehouse at the time the SWPPP was prepared. Excerpts from the SWPPP are presented in the Appendix.

Historical records for the APHO 122 vicinity were reviewed during May 2003 through March 2004, and Table 1 presents the significant findings.

Table 1. Historical Information and Visual Inspection Observations for the APHO 122 Vicinity.

Date	Source of Information	Comments
1945	Plant Account Records	Building 317 was constructed.
1950	United States Marine Corps Air Station, El Toro (Santa Ana), California, Master Plot Plan dated 17 January 1950	The APHO 122 vicinity is shown as an open area near the railroad spurs on the 1950 Master Plot Plan. The Legend of Facilities identifies Building 317 as a structural spares storehouse.
1951	United States Marine Corps Air Station, El Toro, California, Public Works Department, Petroleum Drum Storage, Drawing P.S. 1023, dated 1951	The drawing shows the petroleum storage area and unloading dock northwest of Building 317, adjacent to the railroad spurs.
1954	Master Plot Plan dated 1954	The plan identifies Building 317 as a structural spares storehouse, however, the plan does not identify the open storage area northwest of Building 317.
1955	Aerial Photograph Dated 20 August 1955 (SAIC 1993)	SAIC identified anomaly 570 (known as APHO 122) as a open storage area on an aerial photograph dated 20 August 1955 (SAIC 1993).

Table 1. Historical Information and Visual Inspection Observations for APHO 122 (continued).

Date	Source of Information	Comments
1990's	Remedial investigation sampling was conducted at Installation Restoration Program (IRP) Site 12 (Sludge Drying Beds) near APHO 122. The nearest Site 12 soil samples are located approximately 300 feet north-northwest of APHO 122. The nearest downgradient monitoring wells are located approximately 400 to 500 feet northwest of APHO 122 near Bee Canyon Wash. The wells were constructed during the investigation of the VOC plume for IRP Site 18 or the investigation of the sludge drying beds (IRP Site 12).	APHO 122 overlies the TCE plume. Well 18PS1 is located northwest of APHO 122. Well 12_DGMW48 is located north-northwest of APHO 122. TCE, PCE, and carbon tetrachloride have been detected in water samples collected from these wells. IRP Site 24 – the VOC Source Area – is the source of the chlorinated compounds in the groundwater in the APHO 122 vicinity.
1991	Aerial Photograph Dated 1991 (Site Analysis United States Environmental Protection Agency (EPA) 1991)	EPA identified anomaly 192, a stain, within the APHO 122 investigation area.
1992	Resource Conservation and Recovery Act Facility Assessment (RFA) Sampling Visit for Solid Waste Management Unit (SWMU) 253	SWMU 253, an equipment wash area, is located near the northwestern corner of Building 317.
1994	Hazardous Material/Hazardous Waste Management Plan (SAIC 1994)	The plan identifies hazardous material and hazardous waste storage on the northeastern side of Building 317, within the investigation boundary for IRP Site 21 (Materials Management Group).

Table 1. Historical Information and Visual Inspection Observations for APHO 122 (continued).

Date	Source of Information	Comments
1997	Storm Water Pollution Prevention Plan (SWPPP) (IEM 1997)	The SWPPP includes a summary table with the hazardous materials that are stored or used at the industrial buildings. [Storage Area 317C1 – waste oil storage. Storage Area 317C2 – diesel fuel storage. Storage Area 317C3 – fertilizer/pesticide storage. Building 317, identified as commissary warehouse, with use of cleaning compound.] A spill described as occurring behind Building 317 is described in SWPPP Table 5-3 (Spill History). This spill may have occurred within the area investigated as IRP Site 21 – Materials Management Group, located southwest of APHO 122.
12 May 1999	DTSC letter dated 12 May 1999 requested further evaluation of SAIC 570 (APHO 122).	
2003 – 2004	Visual inspections of May 2003, February 2004, and March 2004	Visual inspections and results of historical records review are documented in the March 2004 information package for APHO 122.
2004	60 Percent Design Submittal, Shallow Groundwater Unit Remedy, IRP Site 24, Volatile Organic Compound Source Area (Earth Tech January 2004)	The maps and drawings show the VOC plume beneath the APHO 122 vicinity.

Visual Inspections of 2003 and 2004
In May 2003, DeAnna Dunbar and Scott Kehe from Southwest Division, Naval Facilities Engineering Command visually inspected the APHO 122 vicinity. Photographs were taken during the inspection. On 24 February 2004, Lynn Marie Hornecker from Southwest Division, Naval Facilities Engineering Command inspected the site. On 10 March 2004, Scott Kehe and Lynn Marie Hornecker from Southwest Division, Naval Facilities Engineering Command inspected the site. Photographs from the visual inspections are presented in the Appendix.

Several concrete slabs are located at the site, and much of the site is relatively level and unpaved. Much of the ground surface is covered with gravel. No stains or discolored soils were observed on the soil or gravel surfaces. Some vegetation is growing at the site. No stains were observed on the concrete surfaces with the exception of rust stains where metal equipment may have been stored.

Stained soils were observed between the railroad tracks near the southeastern boundary of the investigation area. The 1950 drawing of the petroleum storage area at APHO 122 shows a feature identified as an "unloading dock" at or near the stained soils. Photograph 1 shows the stained area and Photograph 7 shows the location of the stained area relative to the locations of the open storage areas.

Empty garbage dumpsters were observed in storage in the northwestern end of APHO 122 during the visual inspections. No stains were observed on the ground surface in the dumpster storage area.

A historical drainage map shows that surface drainage is generally to the northwest, toward Bee Canyon Wash. The northwestern end of APHO 122 is located approximately 600 feet from Bee Canyon Wash. The major drainages – including Bee Canyon Wash – were investigated as IRP Site 25, and no further action status was achieved for IRP Site 25 in September 1997 when the CERCLA Record of Decision was signed. Within the APHO 122 study area, surface drainage may have been toward the small unpaved ditch along the railroad track and toward the northwest.

Groundwater Monitoring and Groundwater Remediation Information
Groundwater flows toward the northwest and is located approximately 90 feet below ground surface in the APHO 122 vicinity based upon water level measurements at nearby Installation Restoration Program (IRP) Site 18 and IRP Site 12 wells.

APHO 122 is located above the VOC plume that originates from IRP Site 24. Design documentation is in the process of being prepared for the VOC plume as of March 2004. Excerpts from the design documentation showing the location of APHO 122 relative to the shallow groundwater treatment system are included in the Appendix.

Well 18_PS1 is located northwest of APHO 122, near Bee Canyon Wash and Well 12_DBMW48 is located north-northwest of APHO 122. Benzene, ethylbenzene, xylenes, PCBs, pesticides, and herbicides were not detected at or above reporting limits in the samples collected

from these wells. Toluene was detected at low levels during a sampling event in 1996. Based upon the absence of benzene, ethylbenzene, xylenes, PCBs, pesticides, and herbicides in the groundwater samples collected from downgradient wells, it is not anticipated that storage activities at APHO 122 caused a release to groundwater. Excerpts from a historical groundwater monitoring report for wells 18_PS1 and 12_DGMW48 are included in the appendix.

IRP Site 21 – the Materials Management Group – is located approximately 500 feet southwest of APHO 122, adjacent to Building 320 and Building 317. The remedial investigation of IRP Site 21 included groundwater and soil sampling. No further action was achieved for IRP Site 21 in the Record of Decision dated September 1997.

Proposed Sampling Strategy

Due to the absence of evidence of significant levels of BTEX compounds, herbicides, PCBs, and pesticides in groundwater wells located downgradient from APHO 122, it is not anticipated that significant releases occurred during operation of the open storage areas at APHO 122. It is possible that stored liquids were spilled on the ground surface during the operation of the open storage areas. Therefore, near-surface soil samples are proposed in order to ascertain whether or not spilled liquids have impacted near-surface soils at or adjacent to the former open storage areas.

Six (6) near surface (0 to 12 inches below ground surface) soil samples are recommended for the investigation of APHO 122. Sample locations are shown on Figure 2 and descriptions of each sample location are provided in Table 2.

Table 2. Summary for Proposed Sampling at APHO 122.

Boring Identifier	Location	Comments
APHO122 HA1 (also known as HA1)	Between the railroad tracks, near former unloading dock, at the stained area. (See Photographs 1 and 7 in the Appendix) The railroad tracks are located between the southwestern and northeastern fenced storage areas. The railroad spurs within the southwestern section of the facility are also being addressed as Potential Release Location (PRL) Railroads. The sample HA1 is proposed because it is between the two fenced open storage areas of APHO 122 and the stain may be attributable to former operations at the open storage areas.	Sample will be analyzed for the following chemicals: Total Petroleum Hydrocarbons (EPA Method 8015-Diesel, EPA Method 8015-Gasoline) Volatile Organic Compounds (EPA Method 8260B) Semivolatile Organic Compounds (EPA Method 8270) Chlorinated Acid Pesticides (EPA Method 8151A) Organochlorine Pesticides (EPA Method 8081A) Organophosphorus Compounds (EPA Method 8141A) Metals (EPA Methods 6010B and 7174A)

Table 2. Summary for Proposed Sampling at APHO 122 (continued).

Boring Identifier	Location	Comments
APHO122 HA2 (also known as HA2)	Near HA1 in the ditch between the railroad tracks and the fence for the southwestern fenced area.	Same as APHO122 HA1
APHO122 HA3 (also known as HA3)	At area that has no vegetation within the northeastern fenced storage area.	Same as APHO122 HA1
APHO122 HA4 (also known as HA4)	Along the access road into the southwestern fenced storage area, near the perimeter fence.	Same as APHO122 HA1
APHO122 HA5 (also known as HA5)	In the unpaved ditch, northwest of the fence at the northwestern end of the southwestern fenced area.	Same as APHO122 HA1
APHO122 HA6 (also known as HA6)	In the unpaved ditch between the railroad tracks and the fence, northeast of the northwestern end of the southwestern fenced area.	Same as APHO122 HA1

References and/or Sources of Information

California Department of Toxic Substances Control Letter to Marine Corps Air Station, El Toro dated 12 May 1999.

California Department of Toxic Substances Control Letter to Marine Corps Air Station, El Toro dated 23 July 1996.

CDM Federal Programs Corporation. 1998. Final Groundwater Monitoring Report, October 1997 Sampling Round, Groundwater Monitoring Program for Marine Corps Air Station, El Toro, El Toro, California. March.

Earth Tech, Inc. 2004. 60 Percent Design Submittal, Shallow Groundwater Unit Remedy, IRP Site 24, Volatile Organic Compound Source Area, Former Marine Corps Air Station, El Toro, California. [Navy Contract N62742-94-D-0048, CTO 0068]

Integrated Environmental Management. 1997. Storm Water Pollution Prevention Plan (SWPPP) for Marine Corps Air Station, El Toro, El Toro, California. [Navy Contract N68711-96-D-2059, Delivery Order 2]

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]

Roy F. Weston. 2000. Final Historical Radiological Assessment, Marine Corps Air Station, El Toro.

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

Science Applications International Corporation. 1994. Final Marine Corps Air Station El Toro Hazardous Material/Hazardous Waste Management Plan. August. [Navy Contract N68711-92-D-4658, Delivery Order 4]

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

United States Marine Corps Air Station, El Toro. Various dates. Regulatory correspondence for environmental compliance program, environmental compliance program closure documents, historical building guides, facility maps and plans, and property records.

United States Marine Corps Air Station, El Toro. 1996. Base Realignment and Closure Cleanup Plan (BCP) for Marine Corps Air Station, El Toro, CA dated 1 March 1996.

FIGURES

M60050_003778
MCAS EL TORO
SSIC NO. 5090.3.A

SENSITIVE RECORD

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

FIGURES 1 AND 2

FOR ADDITIONAL INFORMATION, CONTACT:

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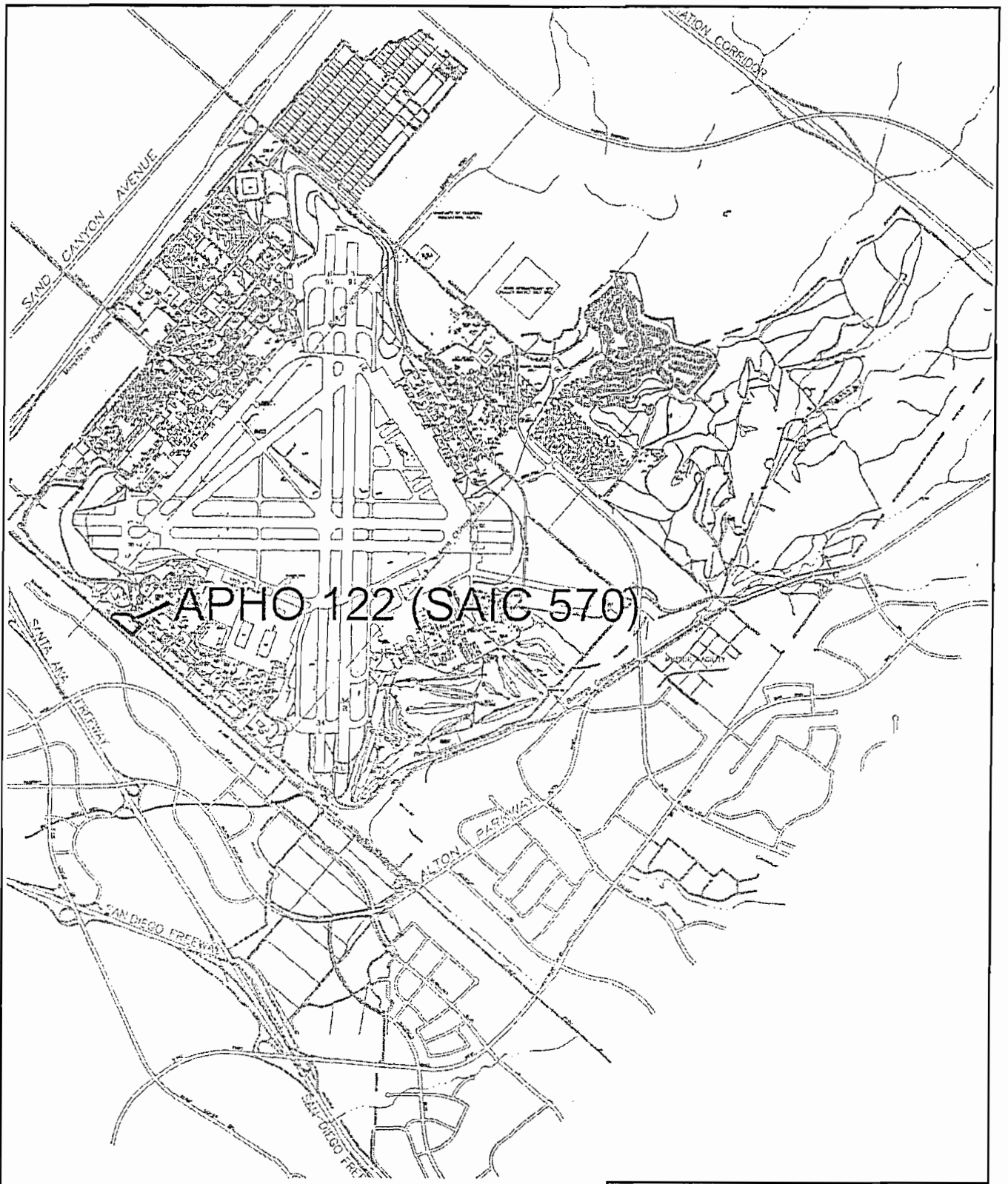

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SOUTHWEST DIVISION NAVAL FACILITIES ENGINEERING COMMAND		
FORMER MCAS EL TORO, CA		
APHO 122 VICINITY		
FILE NO.	Figure 1	DATE
EL-MCAS-101		12/22/03

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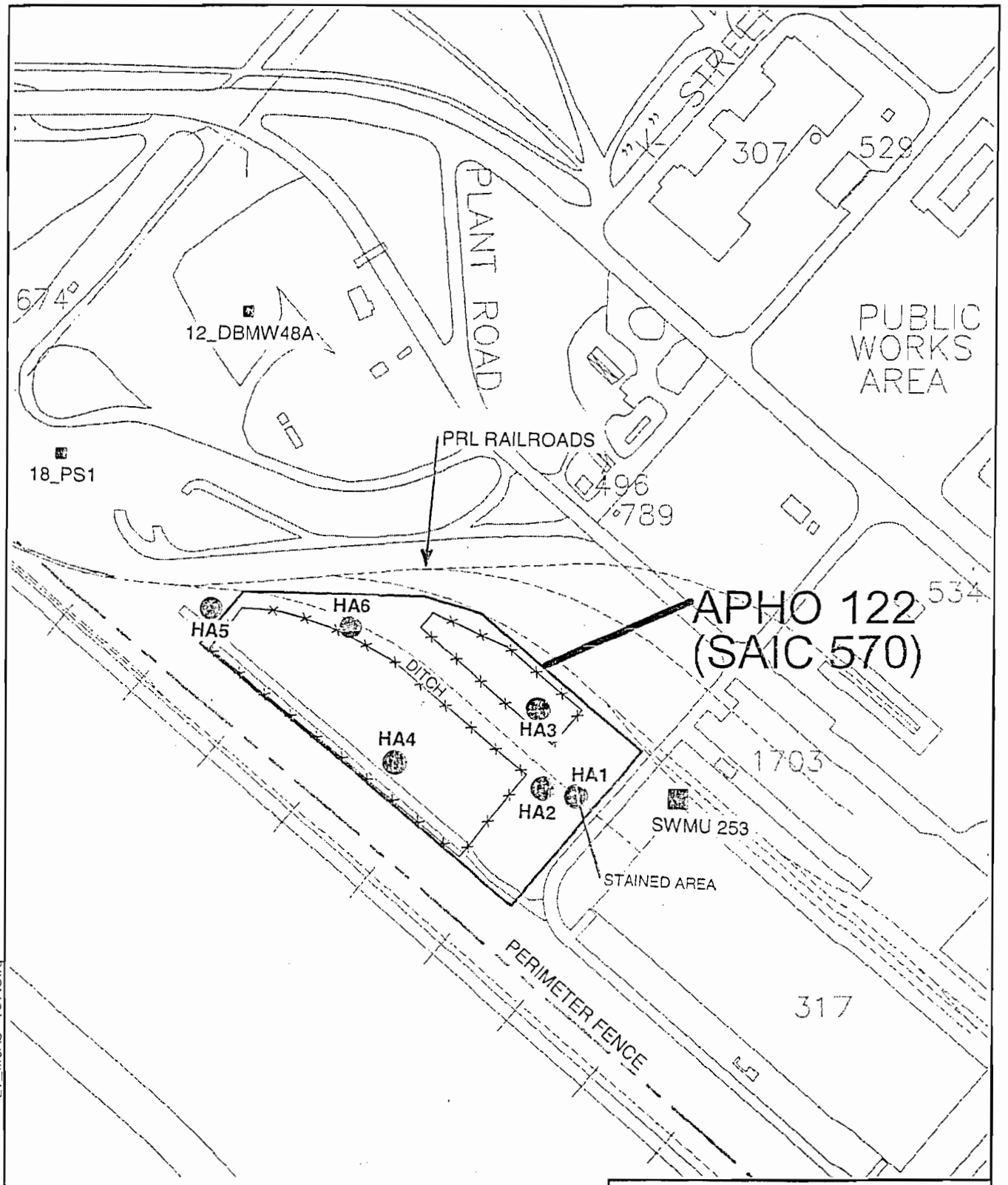

LEGEND

- PROPOSED SAMPLING LOCATION
- RAILROAD TRACKS
- CHAIN-LINK FENCE

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SOUTHWEST DIVISION NAVAL FACILITIES ENGINEERING COMMAND		
FORMER MCAS EL TORO, CA		
PROPOSED SAMPLING LOCATIONS AT APHO 122		
FILE NO. EL-MCAS-107	Figure 2	DATE 3/9/04

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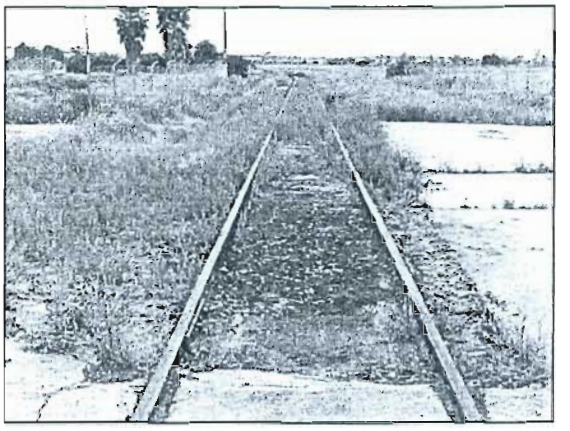
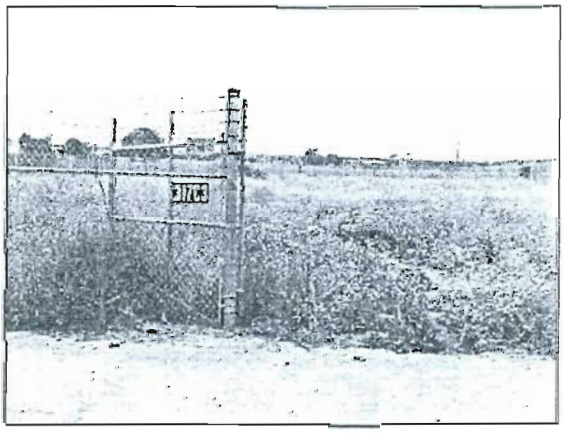
APPENDIX

Photographs
DTSC Letter dated 12 May 1999
1942 Drainage Plan
1950 Master Plot Plan
1951 Petroleum Storage Area Drawing
Excerpts from 1993 SAIC Report
Excerpts from 1994 Hazardous Material/Hazardous Waste Management Plan
Excerpts from 1996 BCP
Excerpts from 1997 SWPPP
Excerpts from 2004 Shallow Groundwater Unit Remedy Design
Excerpts from 1998 Groundwater Monitoring Report

Photograph 1. Railroad Spur at APHO 122 (SAIC 570).
Former MCAS El Toro. Date of Photograph: 8 May 2003.

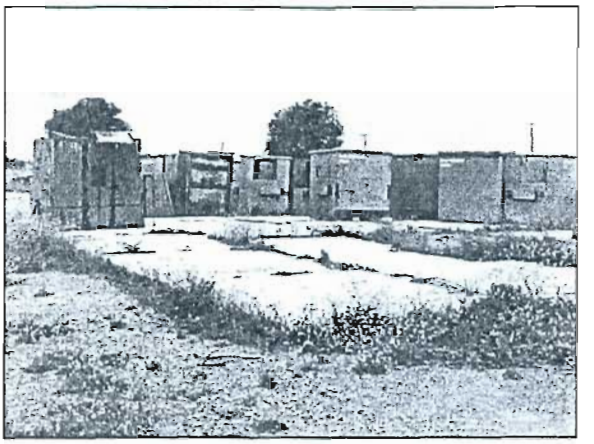


Photograph 2. Gated Fence at APHO 122 (SAIC 570).
Former MCAS El Toro. Date of Photograph: 8 May 2003.

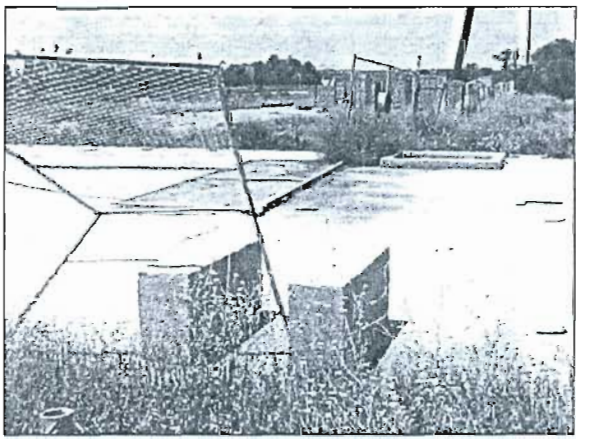


Photograph 3. Small Concrete Slab at APHO 122 (SAIC 570).
Former MCAS El Toro. Date of Photograph: 8 May 2003.

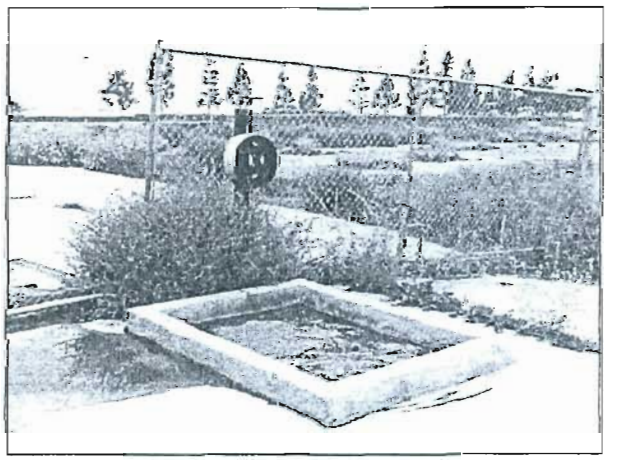
Photograph 4. Concrete Slab with Empty Dumpsters at APHO 122 (SAIC 570).
Former MCAS El Toro. Date of Photograph: 8 May 2003.



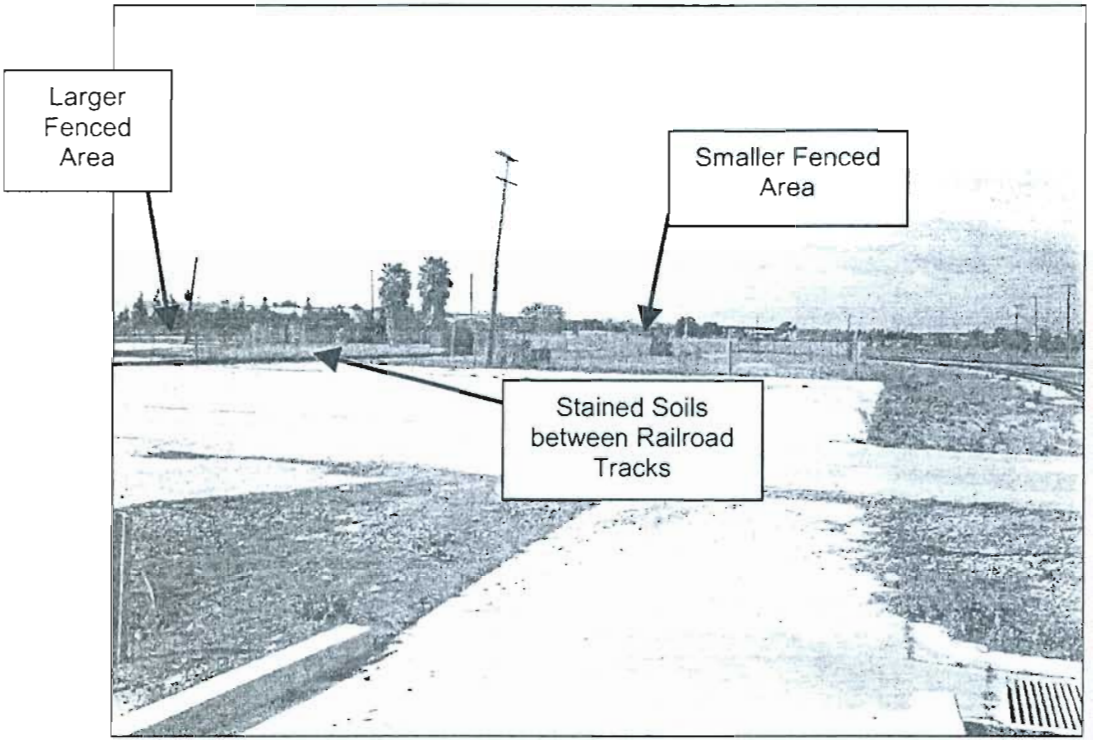
Photograph 5. Concrete Slab at APHO 122 (SAIC 570).
Former MCAS El Toro. Date of Photograph: 12 May 2003.



Photograph 6. Concrete Slab with Bermed Area at APHO 122 (SAIC 570).
Former MCAS El Toro. Date of Photograph: 12 May 2003.



Photograph 7. View of APHO 122 (SAIC 570) from Building 317, Looking Approximately Northwest.
Former MCAS El Toro. Date of Photograph: 24 February 2004



Department of Toxic Substances Control

Edwin F. Lowry, Director
5796 Corporate Avenue
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Winston H. Hickox
Secretary for
Environmental
Protection

Gray Davis
Governor

May 12, 1999

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Dear Mr. Joyce:

COMMENTS ON TECHNICAL MEMORANDUM, AERIAL PHOTOGRAPH ANOMALIES, MARINE CORPS AIR STATION (MCAS) El TORO

The Department of Toxic Substances Control (DTSC) has reviewed the above subject document dated April 1999. The Technical Memorandum presents summary data from the evaluation of historical aerial photographs and recommendations for the future management of more than 700 anomaly sites at MCAS El Toro. According to the memorandum, the Department of Navy (DoN) acquired and reviewed both historical Station maps and the results of investigations associated with the Installation Restoration Program (IRP) and environmental compliance program sites. The DoN then confirmed previous recommendations or developed refined recommendations based upon the most recently collected data. The DoN recommended no further action status for all the anomaly sites except five (5) Aerial Photograph Anomaly Areas. The five Anomaly Areas consist of nineteen (19) anomaly sites proposed for further evaluation.

DTSC comments are as follows:

1. *Introduction, page 1:*

The investigation of aerial photograph anomalies was initially conducted by U.S. EPA as part of the Preliminary Assessment/Site Inspection (PA/SI) to identify CERCLA sites at MCAS El Toro. An additional aerial photograph study was conducted by Science Applications International Corporation (SAIC). Since these investigations were conducted as part of the PA/SI, all aerial photograph anomalies should be considered potential CERCLA sites until sufficient investigations have been conducted. It is premature to recommend that sites be recommended for No Further Action or minimal sampling based

solely on a record review. The photograph anomalies may indicate areas where hazardous substances were spilled, released or buried prior to accurate records having been kept at the base.

2. *Recommendations Section, page 3:* Anomaly Areas 1, 2, 4, and 5 are proposed for shallow soil sampling for petroleum hydrocarbons and volatile organic compounds; the results of field investigations are then to be submitted to the Regional Water Quality Control Board (RWQCB). This approach is not acceptable to DTSC because there is no evidence that the spills were as a result of petroleum hydrocarbon releases only. These areas should be investigated for the same suite of constituents of concern as all other Temporary Accumulation Areas and the results of investigation should be submitted to the regulatory agencies. Based on the results of analysis, the areas with petroleum contamination only can then be deferred to the RWQCB for assessment.

3. *Aerial Photograph Anomaly Area 3, page 5:* The reference to the location of Area 3 should be the northeast section of the Station not the northwest.

4. *Table 2. Proposed List of Aerial Photograph Anomalies (APHOs):* Most of the APHOs listed in the table are recommended for No Further Action (NFA) status based upon review of historical records. DTSC is of the opinion that a visual site inspection should be conducted for every anomaly database tracking location (i.e., APHO 1 through APHO 68) to check for sign of past spills or releases of hazardous constituents. The APHOs should be visually inspected, photographed, and a written evaluation report submitted to the agencies before a No Further Action (NFA) status can be agreed to by DTSC. The report should be prepared in a format similar to the Resource Conservation and Recovery Act (RCRA) Facility Assessment report conducted for the Temporary Accumulation Areas at MCAS El Toro.

5. *Exhibit 1, Table 2, SAIC Aerial Photograph Anomaly List:* The Technical Memorandum did not provide adequate explanation of the criteria/rationale used by DoN to recommend No Further Action on several anomaly sites that SAIC recommended for Further Investigations (FI). The following anomalies should be visually inspected and the reports submitted to the agencies. If a previous investigation or cleanup was conducted in the same location as an APHO, sufficient information should be provided to demonstrate that the APHO was investigated. Simply noting that investigations or cleanups were conducted adjacent to an APHO is not sufficient. Site inspections and reports should be provided for the following SAIC numbered anomalies: 117, 133, 270, 404, 405, 523, 525, 8, 66, 67, 88, 111, 112, 145, 147, 149, 157, 199, 217, 260, 284, 285, 458, 35, 68, 135, 176, 177, 246, 303, 305, 342, 348, 488, 528, 570, 58, 121, 125, 127, 163, 175, 364, 413, 452, and 219.

Also, please provide page numbers and table header for the pages following page 1.

If you have any questions, please contact me at (714) 484-5418.

Sincerely,

Tayseer Mahmoud
Remedial Project Manager
Office of Military Facilities
Southern California Operations

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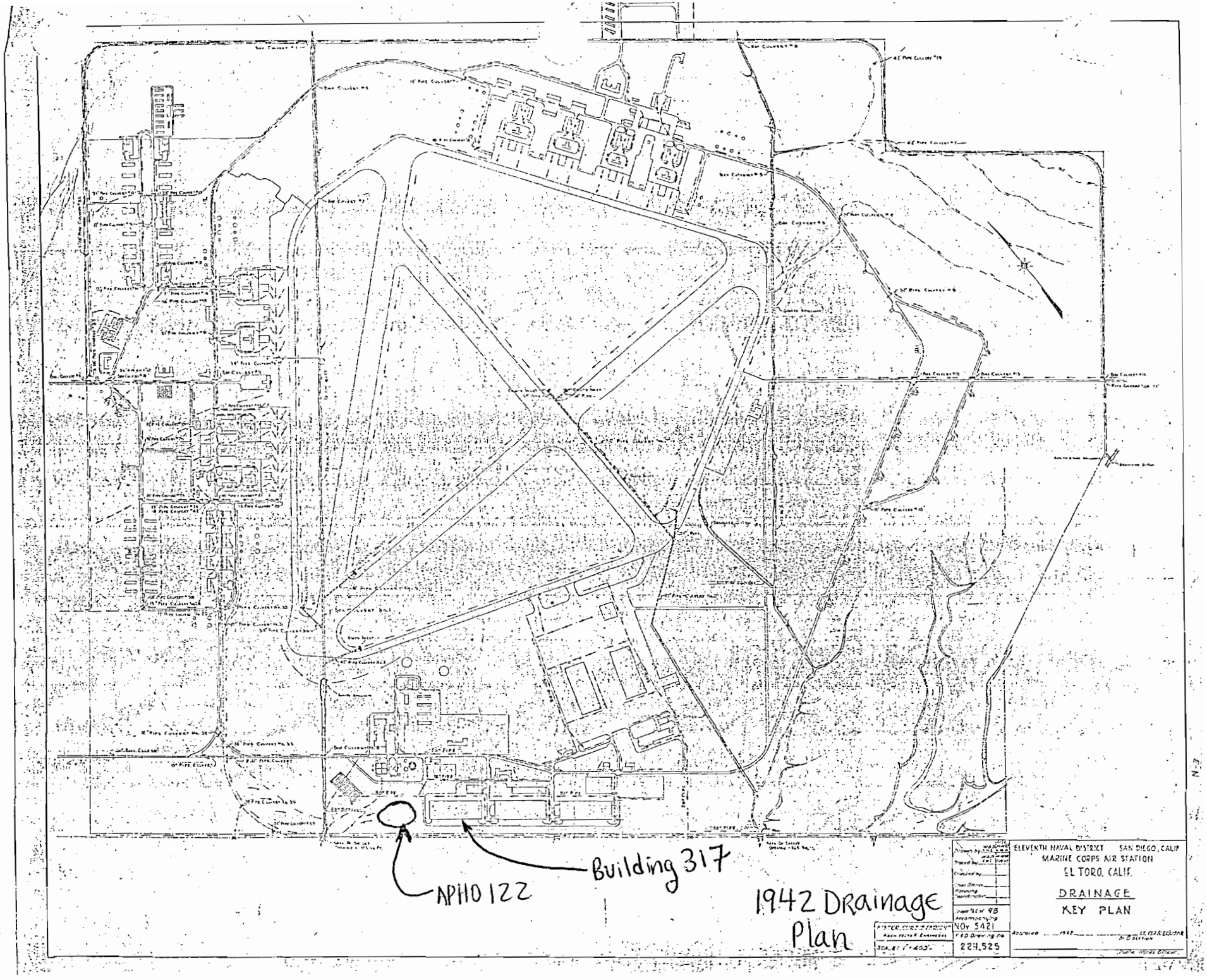
Building 317
AP110 122
1942 Drainage Plan
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MARINE CORPS AIR STATION
EL TORO, CALIF.
DRAINAGE
KEY PLAN
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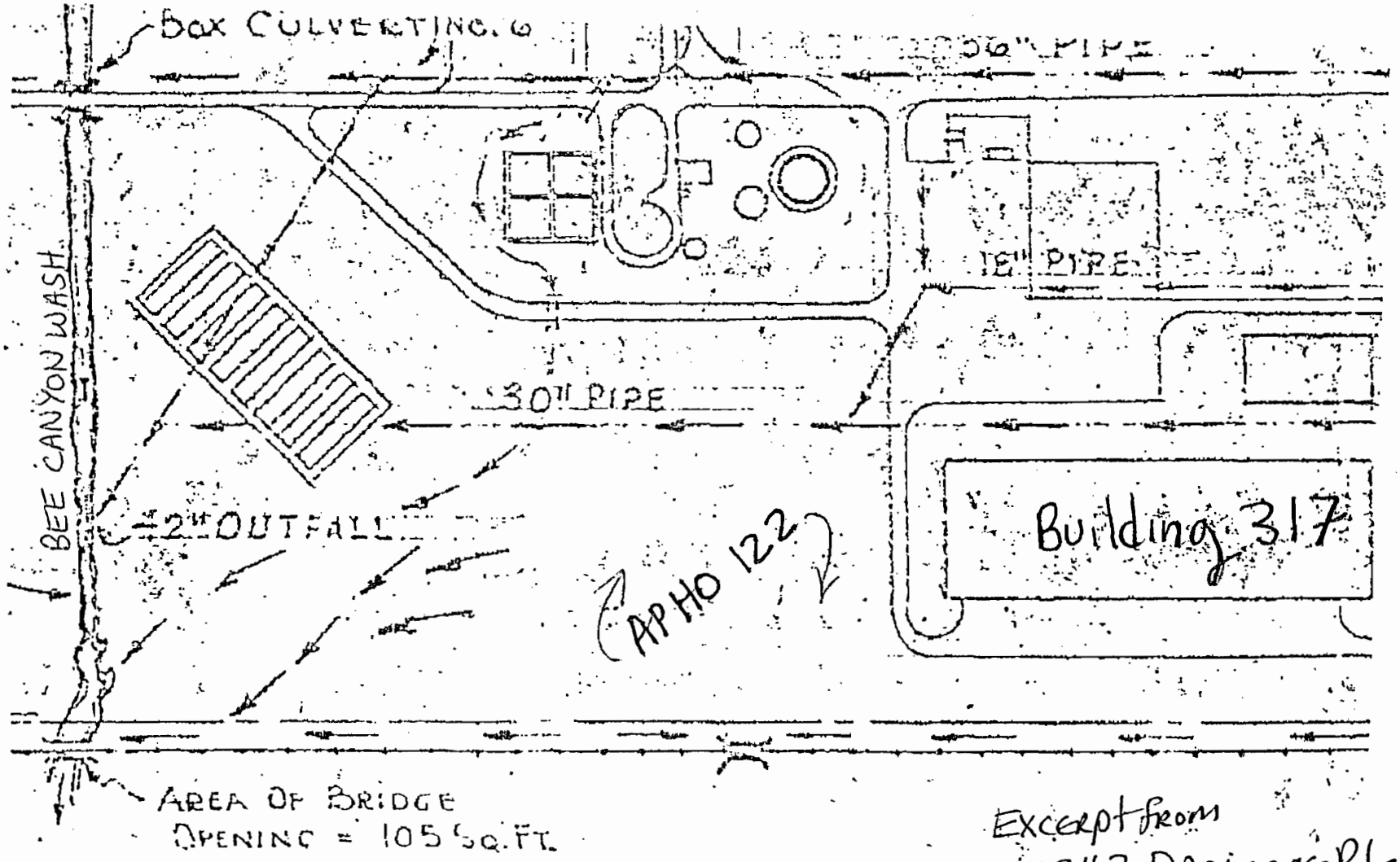

Excerpt from
1942 Drainage Plan

M60050_003778
MCAS EL TORO
SSIC NO. 5090.3.A

SENSITIVE RECORD

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

HISTORICAL DRAWING – MASTER PLOT PLAN
DATED 17 JANUARY 1950

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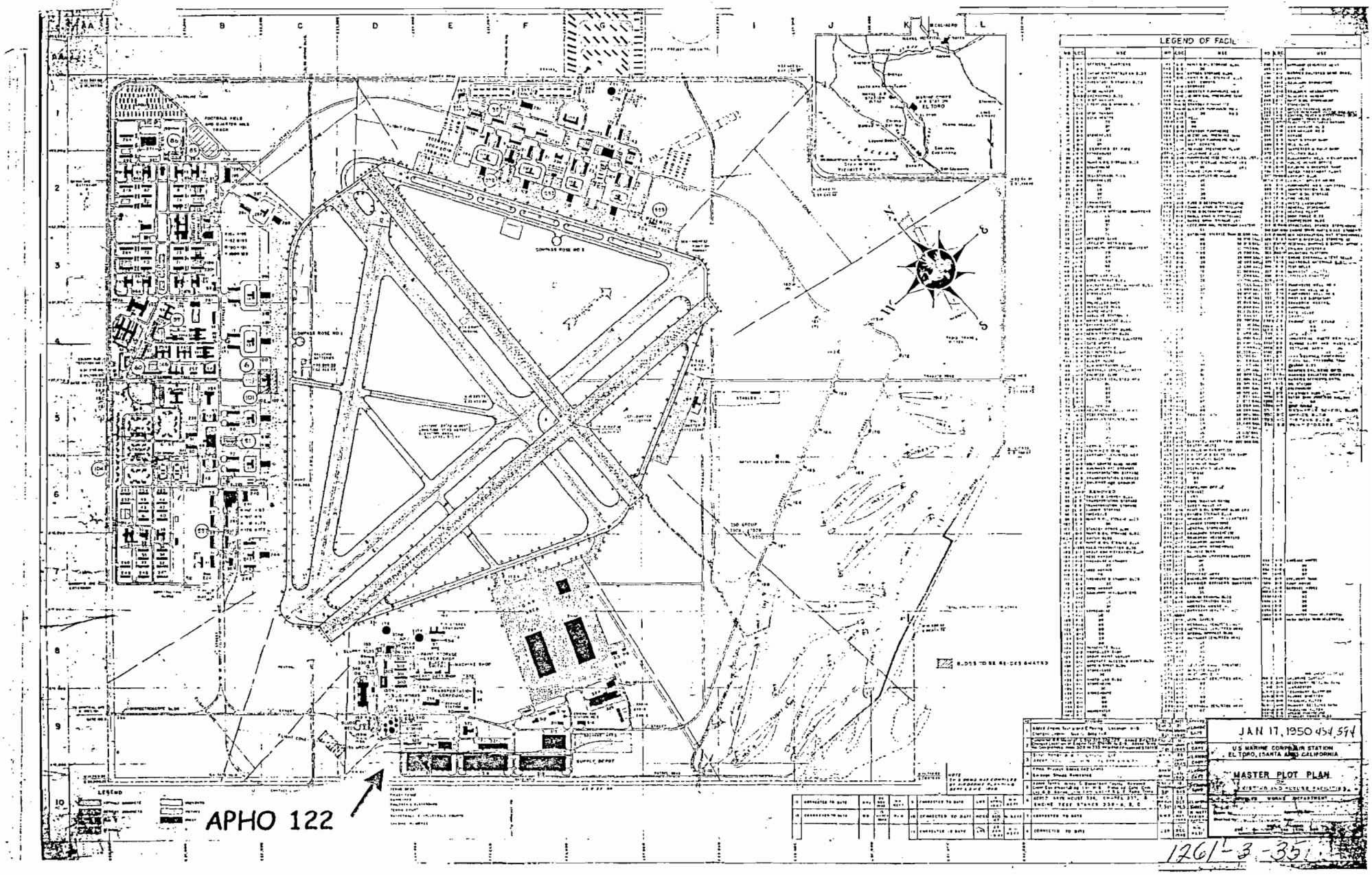
SENSITIVE



HISTORICAL DRAWING
Master Plot Plan dated
17 January 1950.

SENSITIVE

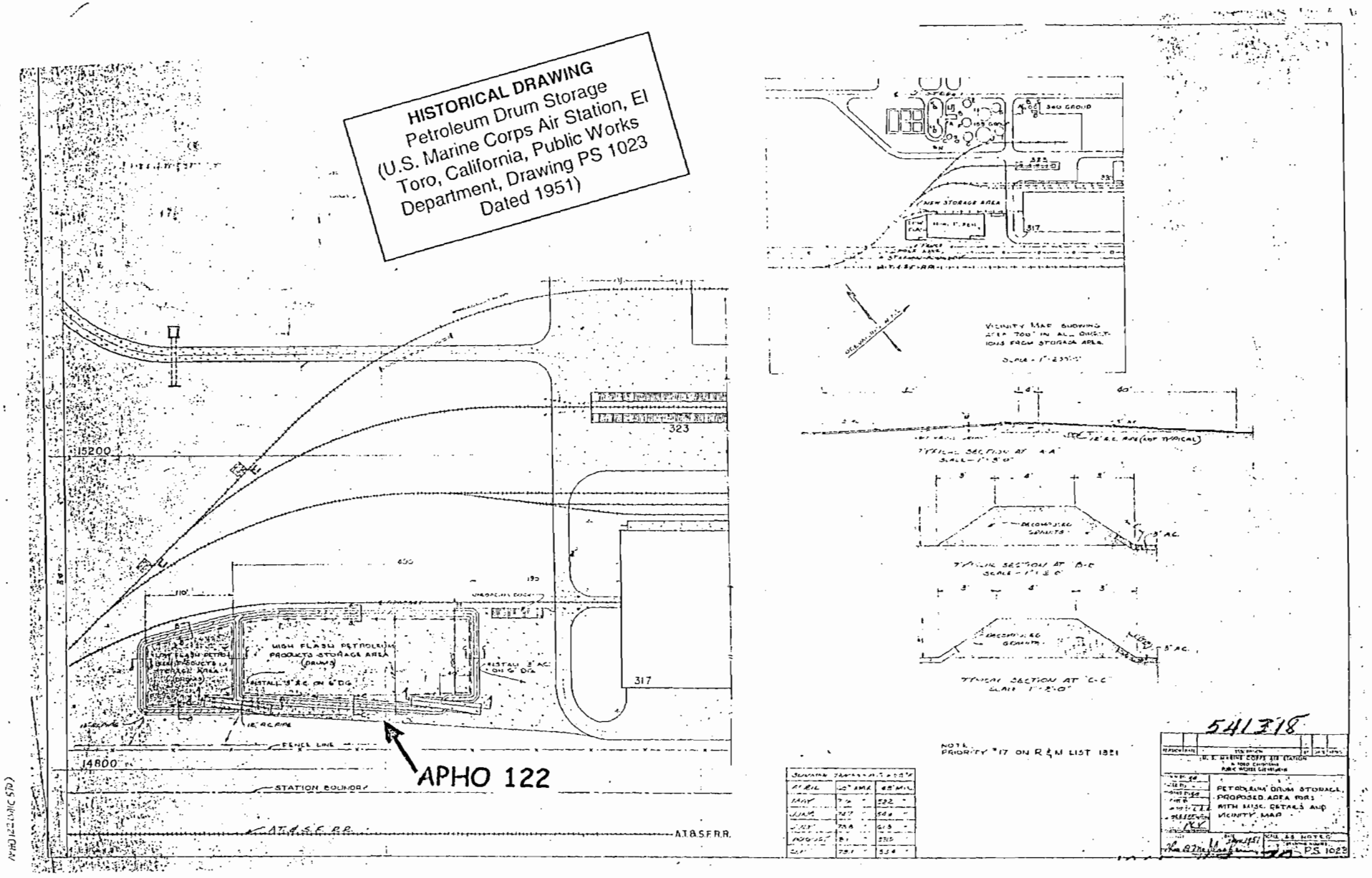
LEGEND OF FACILITIES

NO.	LOC.	USE
141	G-2	PAINT & OIL STORAGE BLDG.
142	G-2	DO
143	G-1	OXYGEN STORAGE BLDG.
144	E-2	PAINT & OIL STORAGE BLDG.
145		NOT CONSTR.
146	A-4	STORAGE
147	B-2	BOOSTER PUMPHOUSE NO.2
148	B-2	10,000 GAL. PRESSURE TANK
149	A-A-5	WELL
150	A-A-5	STANDBY PUMPHOUSE
151	A-A-5	BOOSTER PUMPHOUSE NO 4
152	A-5	DO NO.3
153	C-7	WELL
153-A	F-7	DO
154	E-8	DO
155	D-8	STANDBY PUMPHOUSE
156	C-8	10,000 GAL. PRESSURE TANK
157	D-8	BOOSTER PUMPHOUSE NO.1
158		NOT CONSTR.
159	D-9	SEWAGE TREATMENT PLANT
159-A	D-9	CHLORINE BLDG.
159-B	D-9	PUMPHOUSE (SEE END OF BLDG. LIST)
160	J-3	INERT STORAGE MAGAZINE (R)
161	J-4	DO (R)
162	J-4	SMOKE DRUM STORAGE
163	J-5	HIGH EXPLOSIVE MAGAZINE
164	J-5	DO
165	J-5	DO
166	I-6	DO
167	I-7	DO
168	I-7	DO
169	J-6	FUSE & DETONATOR MAGAZINE
170	J-5	SMALL ARMS & PYROTECHNIC
171	K-5	FUSE & DETONATOR MAGAZINE
172	K-4	SMALL ARMS & PYROTECHNIC
173	K-4	SMOKE DRUM STORAGE (R)
174	E-8	1,000,000 GAL. RESERVOIR (WATER)
175	E-9	DO
176	B-6	GASOLINE STORAGE TANK 25,000 GAL.
177	B-6	DO 50,000 GAL.

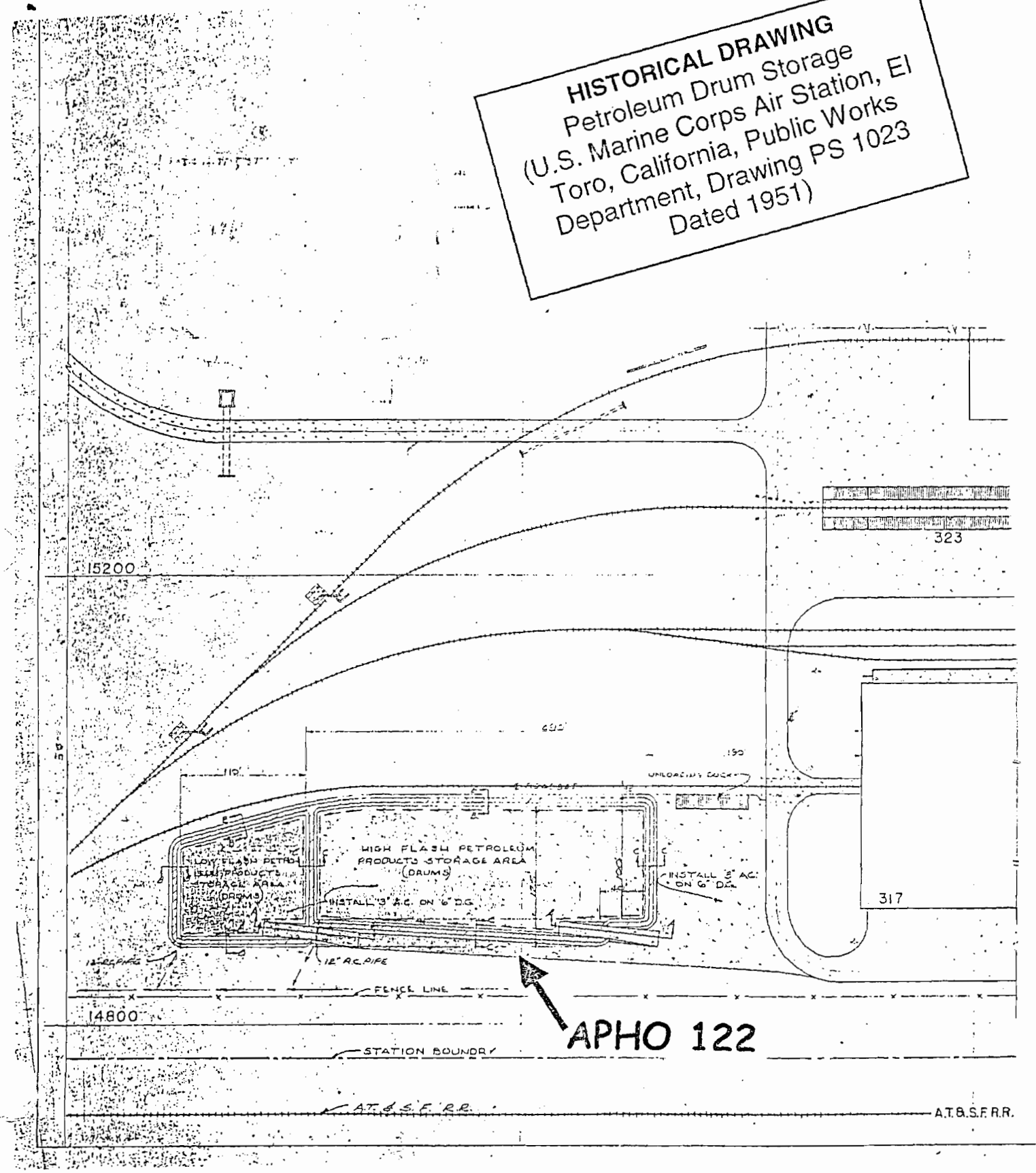
NO.	LOC.	USE
282	A-2	BARRACKS (ENLISTED MEN)
283	A-1	DO
284	A-1	MARRIED ENLISTED MENS QTRS.
285	B-2	BAKERY
286	B-2	SQUADRON STOREHOUSE
287	B-2	DO
288	C-2	SQUADRON HEADQUARTERS
289	C-2	SQUADRON HANGAR
290	E-1	PAINT & OIL STOREHOUSE
291	F-1	STOREHOUSE
292	F-2	GROUND TRAINING BLDG.
293	G-1	WATER RESERVOIR 1,000,000 GAL.
294	H-5	CONTROL TOWER & OPERATIONS BLDG.
294-A	H-5	STANDBY POWER BLDG.
295	GBF-7	FLIGHT TEST & CHECK HANGAR
296	G-8	A&R HANGAR NO.2
297	F-8	A&R HANGAR NO.3
298	E-9	GARAGE
299	E-9	PAINT & SPRAY SHOP
300	D-8	MILL BLDG.
301	D-8	CARPENTER & PAINT SHOP
302	D-8	UTILITIES BLDG.
303	D-8	BLACKSMITH, WELD., & EQUIP. REPAIR
304	D-8	PUBLIC WORKS OFFICE
305	D-8	BUILDING & GROUNDS SHOP
306	D-9	WATER TREATMENT PLANT
307	D-8&9	LAUNDRY BLDG.
307-A	D-9	LAUNDRY BOILER HOUSE
308	G-1	PUMPHOUSE NO.5 (BOOSTER)
309	F-9	ADMINISTRATION BLDG
310	G-8	PAINT & OIL STORAGE
311	F-9	FIRE HOUSE
312	F-9	PHOTO LABORATORY
313	F-9	GENERAL STOREHOUSE
314	G-9	HEATING PLANT
315	G-8	DROP FORGE BLDG
316	G-8	COMPRESSOR BLDG
317	E-9&10	STRUCTURAL SPARES STOREHOUSE
318	EBF-8&9	ENGINE SPARE PARTS & ACC STOREH'E
319	F-9&10	GEN. AERONAUTICAL MAT. STOREHOUSE
320	E-9	PAINT & CHEMICALS STOREHOUSE

HISTORICAL DRAWING
Excerpt from Legend of Facilities on Master Plot Plan dated 17 January 1950.

HISTORICAL DRAWING
Petroleum Drum Storage
(U.S. Marine Corps Air Station, El Toro, California, Public Works Department, Drawing PS 1023 Dated 1951)



HISTORICAL DRAWING
Petroleum Drum Storage
(U.S. Marine Corps Air Station, El Toro, California, Public Works Department, Drawing PS 1023 Dated 1951)



APHO 122 (Rev 5/70)

EXCERPTS

Note: Annotations were made by the writer of the information package.

Final Report
Aerial Photograph Assessment
MCAS El Toro
Contract No. N68711-91-D-4658
Delivery Order 0002
SAIC Project No. 01-0892-02-0817

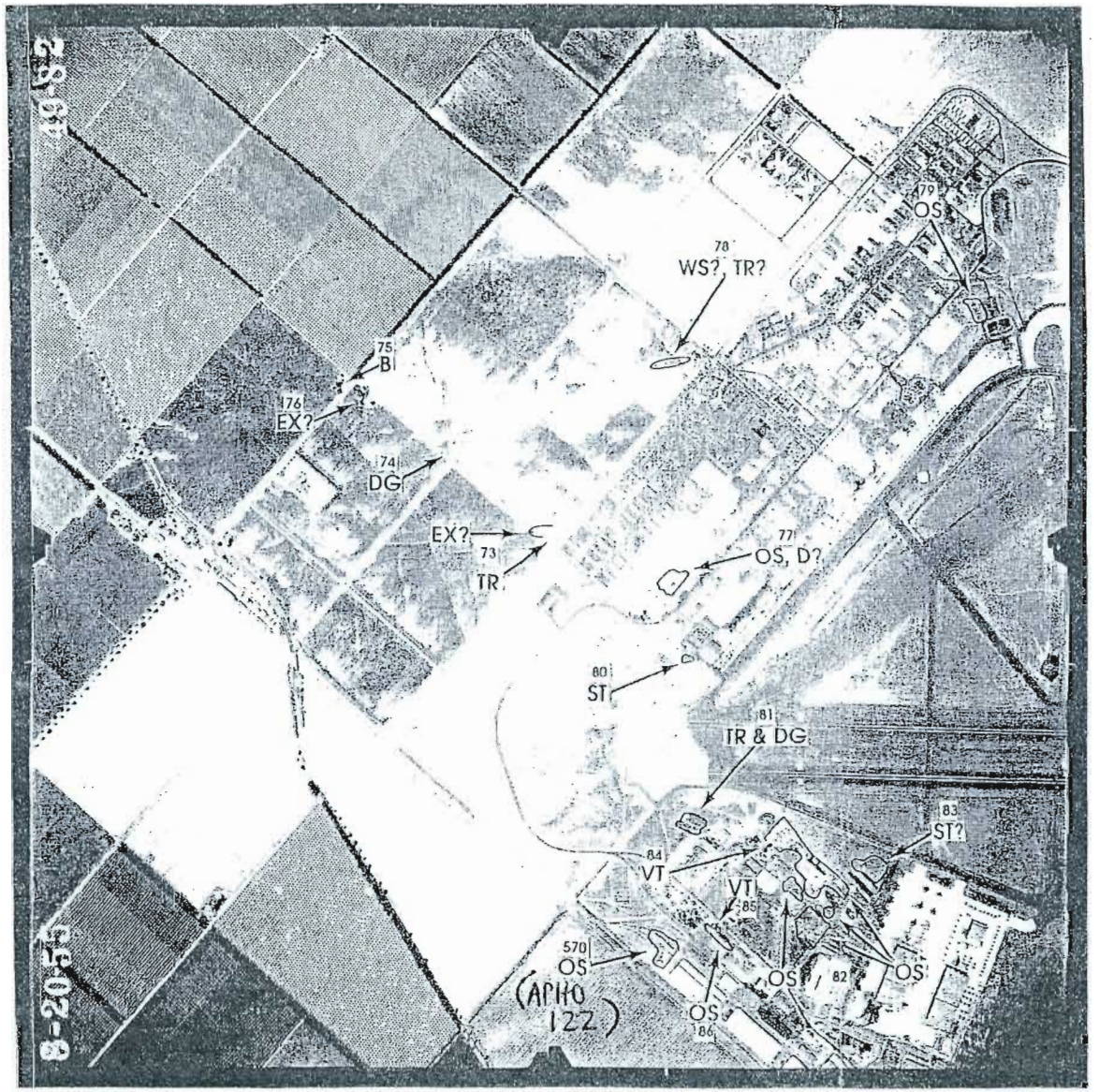
Submitted to:

Naval Facilities Engineering Command
Southwest Division
1220 Pacific Highway, Room 18
San Diego, CA 92132-5181

Submitted by:

Science Applications International Corporation
Engineering Sciences Division
10260 Campus Point Drive, MS F1
San Diego, CA 92121

October 25, 1993



Aerial Photographic Interpretation
MCAS El Toro
Santa Ana, California
1955

Figure 4

Sheet 1 of 1
August 20, 1955
Photo Number PAI 49V, 49–82
Source: Map and Imagery Library, University of California, Santa Barbara

Prepared for:

Southwest Division
Naval Facilities Engineering Command
Contract N68711–92–D–4658

LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
B	Building	IM	Impoundment
D	Drums	LQ	Liquid
DB	Debris	LT	Light–Toned
DG	Disturbed Ground	M	Material
DK	Dark–Toned	MM	Mounded Material
EX	Excavation	OS	Open Storage
EXT	Extraction	R	Refuse
FA	Fill Area	ST	Stain
FBR	Fuel Bladder Revetment	TR	Trench
GR	Graded Area	UO	Unidentified Object
GS	Ground Scar	VT	Vertical Tank
HT	Horizontal Tank	WS	Wet Soil

N

1000' 0 1000' 2000'

1" = 1167'

Science Applications International Corporation
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ETG4-1R1.DWG

c 81. A trench (TR) and disturbed ground (DG) can be seen about 230 feet northwesterly of Building 307, near S 14th Street and K Street. The purpose is unknown. Additional investigation is recommended.

c 82. There are open storage (OS) areas in much of the north-central portion of Area D (Reference B). The current IR program field investigation is probably adequate relative to the site noted here. Additional investigation is not recommended at this time.

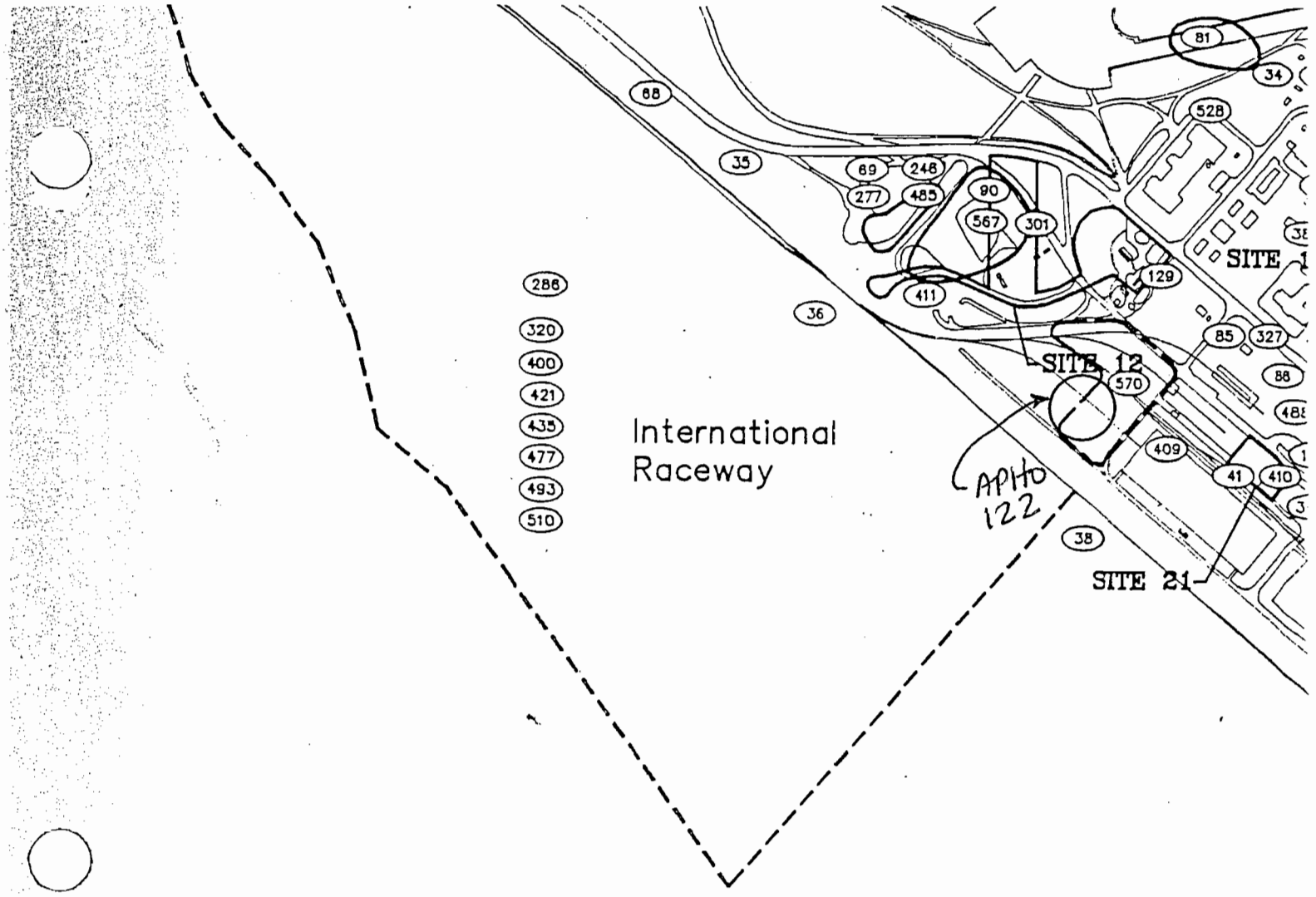
c 83. Probable stains (ST) are adjacent to the northwest corner of the aircraft parking apron. The current IR program field investigation probably adeauate, relative to the features noted here. Additional investigation is not recommended at this time.

c 84. Two (2) vertical tanks (VT) can be seen north of Building 355, near S 11th Street and M Street. Verification of the tanks and their contents is recommended.

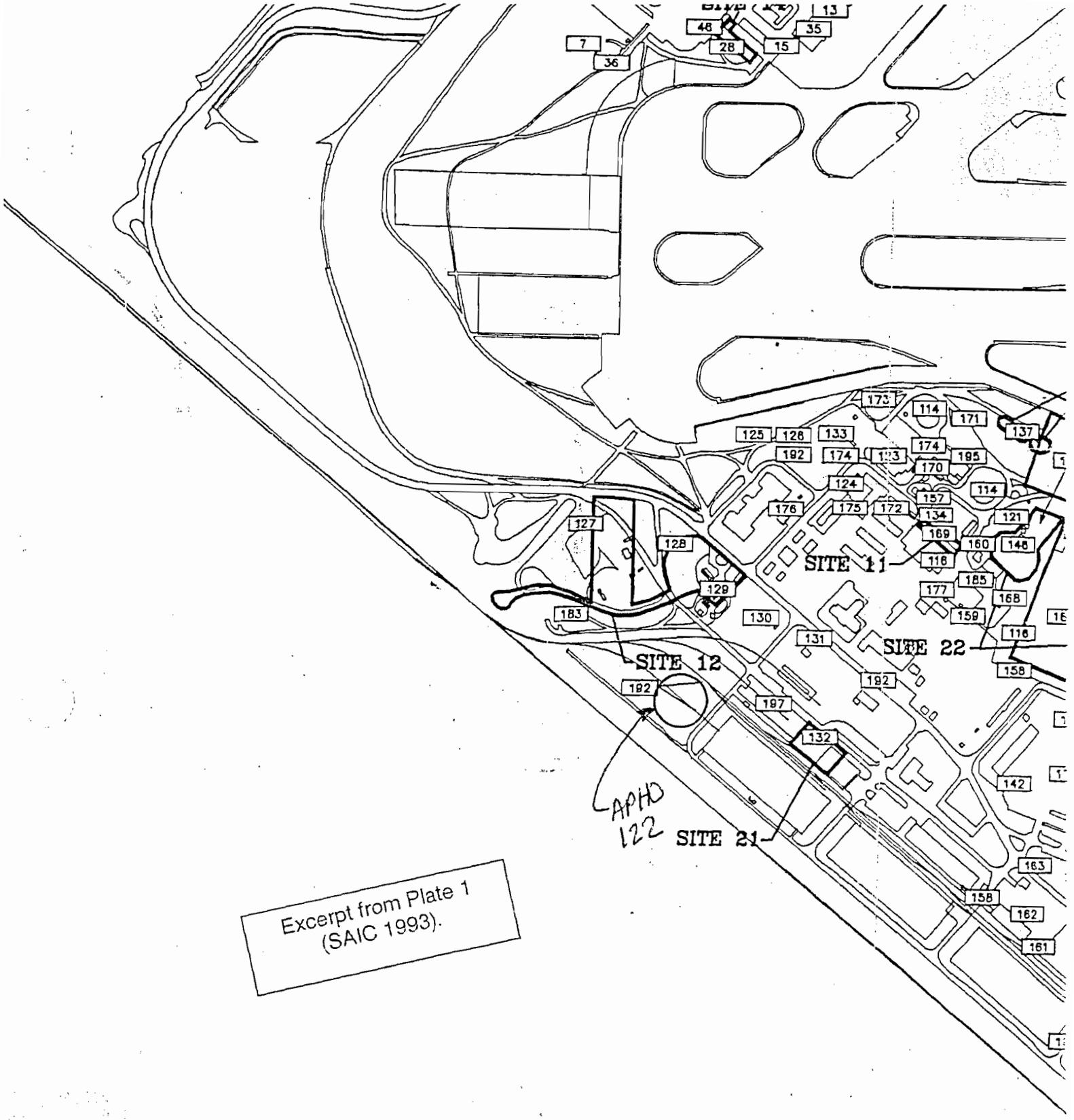
b 85. There are two (2) vertical tanks (VT) near South Marine Way and M Street, about 200 feet south of Building 368 (Public Works). Verification of the tanks and their contents is recommended.

c 86. An open storage (OS) area is located parallel to South Marine Way, and extends approximately from the site of previous comment to Building 305. The current IR program field investigation is probably adequate, relative to the features noted here. Additional investigation is not recommended at this time.

→ 570. An open storage (OS) area is located westerly of Building 317, near M Street, between S 15th Street and Perimeter Road. Additional investigation is recommended.



Excerpt from Plate 2
(SAIC 1993).



Excerpt from Plate 1
(SAIC 1993).

181.	1980	POSS LQ
182.	1980	POSS LQ
	1991	LQ
183.	1980	LT M
	1986	PROB LQ
184.	1980	FBR
	1986	FBR
185.	1965	ST
	1986	ST
186.	1986	ST
	1991	ST
187.	1986	LQ
188.	1986	LQ
	1991	ST
189.	1986	ST
190.	1986	LQ, POSS LQ
191.	1986	POSS LQ
→ 192.	1991	ST
193.	1991	POSS LQ
194.	1991	ST, 3 VT
195.	1991	14 POSS VT, ST
196.	1991	LQ
197.	1991	2 PROB VT
198.	1986	ST
	1991	ST
199.	1952	PROB ST
200.	1952	ST
	1970	ST
	1986	LQ
201.	1952	POSS PIT
202.	1952	(2) VT
203.	1952	POSS WS
204.	1952	LT MM
205.	1965	From Top FA, CRANE, DK M, LT M, TR
206.	1965	POSS LQ
207.	1965	ST
208.	1965	VT
	1970	VT
	1980	VT
	1986	VT
	1991	VT
209.	1965	PROB LDA
210.	1965	VT
	1980	VT
211.	1965	FBR, POSS LQ
	1970	FBR, ST

Final

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

August 1994

EXCERPTS

Note: Annotations were made by the writer of the information package.

Prepared for:

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

Prepared by:

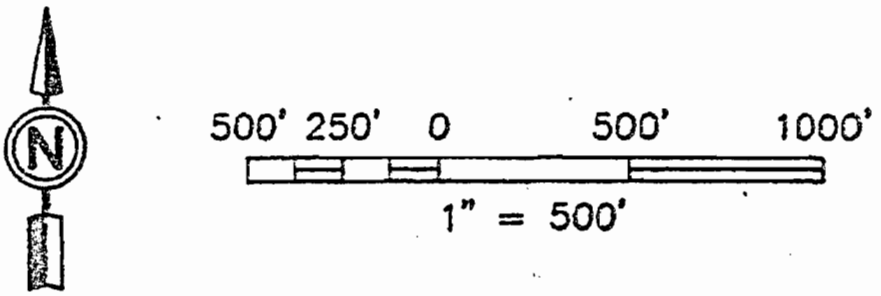
Science Applications International Corporation
Engineering Sciences Division
10260 Campus Point Drive
San Diego, CA 92121

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

MCAS El Toro
Santa Ana, California

HAZARDOUS WASTE ACCUMULATION POINTS AND HAZARDOUS MATERIAL STORAGE LOCATIONS

NOVEMBER 5, 1993



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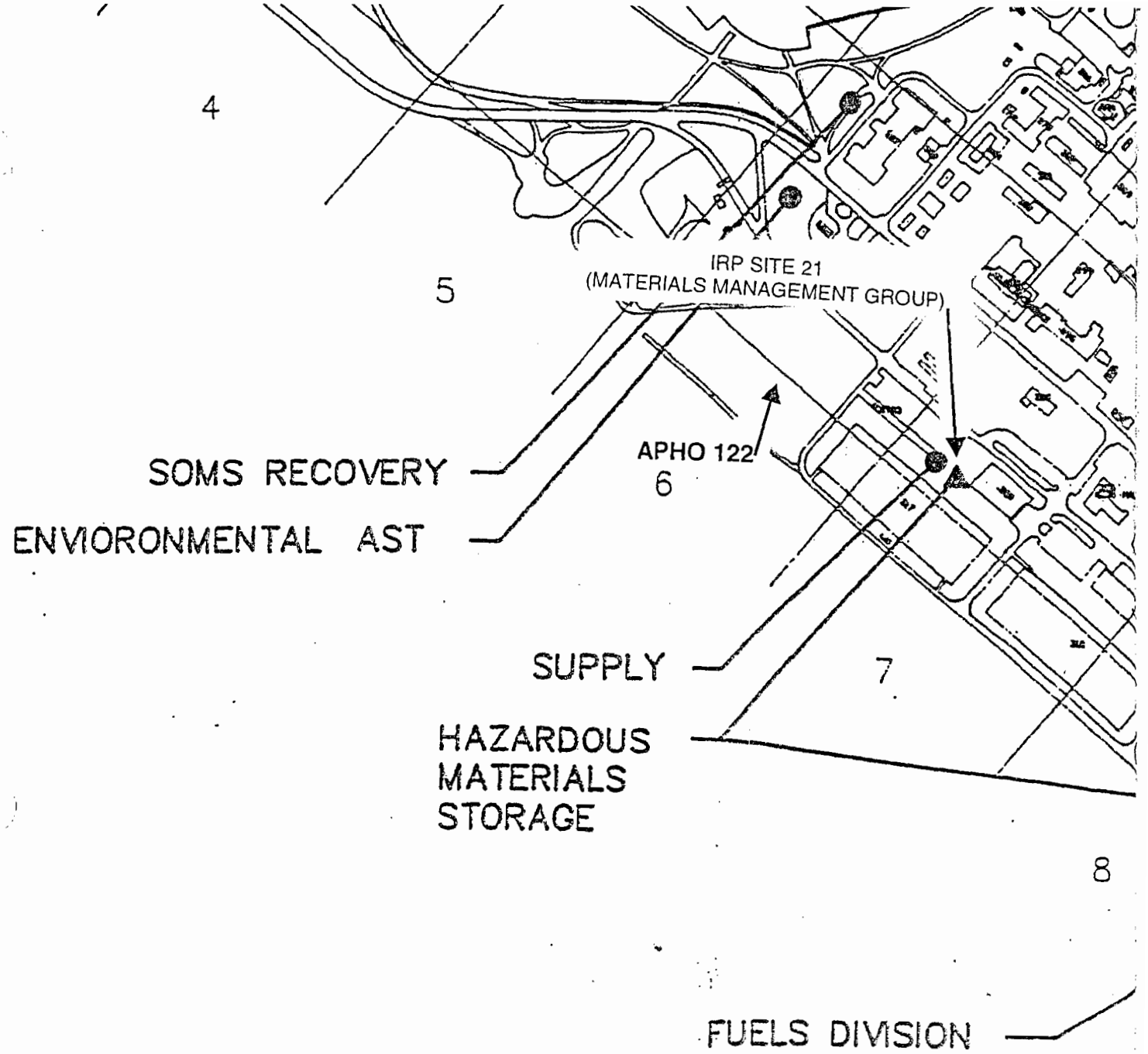
4
5
IRP SITE 21
(MATERIALS MANAGEMENT GROUP)
APHO 122
6
SOMS RECOVERY
ENVIORONMENTAL AST
SUPPLY
7
HAZARDOUS
MATERIALS
STORAGE
8
FUELS DIVISION
MWS
REFU
MWS

United States Marine Corps

EXCERPTS

Note: Annotations were made by the writer of the information package.

Base Realignment and Closure Cleanup Plan (BCP)

For

Marine Corps Air Station, El Toro, CA

CTO-0103

Document Control No.: CTO-0103/0058

1 March 1996

M60050_003778
MCAS EL TORO
SSIC NO. 5090.3.A

SENSITIVE RECORD

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

FIGURE E-11A – SITE PLAN
SITE 12 - SLUDGE DRYING BEDS

FOR ADDITIONAL INFORMATION, CONTACT:

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

TELEPHONE: (619) 556-1280
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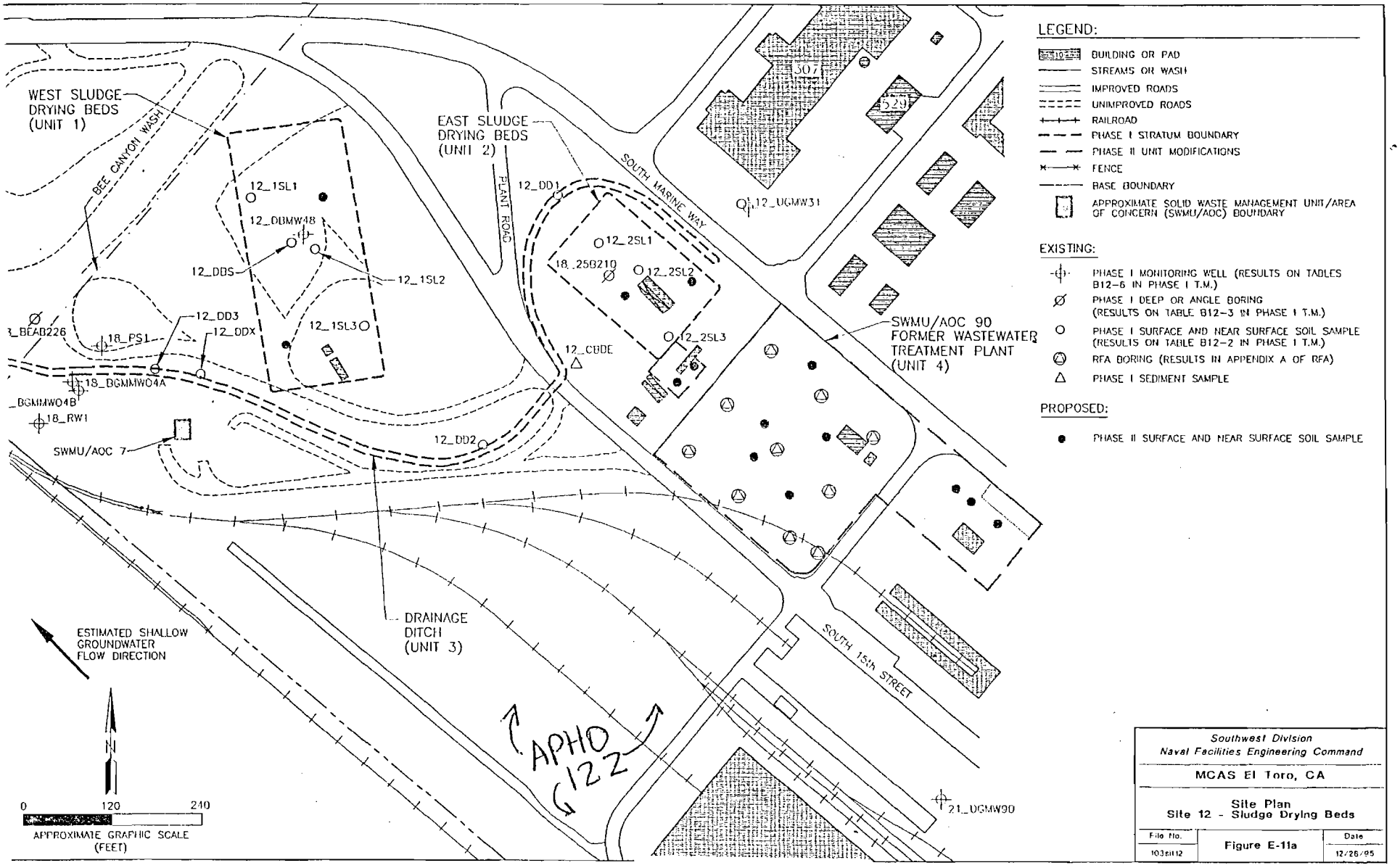
WEST SLUDGE DRYING BEDS (UNIT 1)
BEE CANYON WASH
EAST SLUDGE DRYING BEDS (UNIT 2)
PLANT ROAD
SOUTH MARINE WAY
12_1SL1
12_DBMW48
12_DDS
12_1SL2
12_1SL3
12_DD3
12_DDX
18_PS1
18_BGMMW04A
18_RW1
SWMU/AOC 7
12_DD1
12_2SL1
18_2SB210
12_2SL2
12_2SL3
12_CBDE
12_DD2
12_UGMW31
SWMU/AOC 90 FORMER WASTEWATER TREATMENT PLANT (UNIT 4)
DRAINAGE DITCH (UNIT 3)
ESTIMATED SHALLOW GROUNDWATER FLOW DIRECTION
N
0 120 240
APPROXIMATE GRAPHIC SCALE (FEET)
SOUTH 15th STREET
21_UGMW90
APHO G122
LEGEND:
BUILDING OR PAD
STREAMS OR WASH
IMPROVED ROADS
UNIMPROVED ROADS
RAILROAD
PHASE I STRATUM BOUNDARY
PHASE II UNIT MODIFICATIONS
FENCE
BASE BOUNDARY
APPROXIMATE SOLID WASTE MANAGEMENT UNIT/AREA OF CONCERN (SWMU/AOC) BOUNDARY
EXISTING:
PHASE I MONITORING WELL (RESULTS ON TABLES B12-6 IN PHASE I T.M.)
PHASE I DEEP OR ANGLE BORING (RESULTS ON TABLE B12-3 IN PHASE I T.M.)
PHASE I SURFACE AND NEAR SURFACE SOIL SAMPLE (RESULTS ON TABLE B12-2 IN PHASE I T.M.)
RFA BORING (RESULTS IN APPENDIX A OF RFA)
PHASE I SEDIMENT SAMPLE
PROPOSED:
PHASE II SURFACE AND NEAR SURFACE SOIL SAMPLE
Southwest Division
Naval Facilities Engineering Command
MCAS El Toro, CA
Site Plan
Site 12 - Sludge Drying Beds
File No.
103ei12
Figure E-11a
Date
12/26/95

STORM WATER POLLUTION PREVENTION PLAN

(SWPPP)

EXCERPTS

Note: Annotations were made by the writer of the information package.

FOR

MARINE CORPS AIR STATION EL TORO

EL TORO, CALIFORNIA

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

VOLUME 1

JULY, 1997

INTEGRATED ENVIRONMENTAL MANAGEMENT, INC.

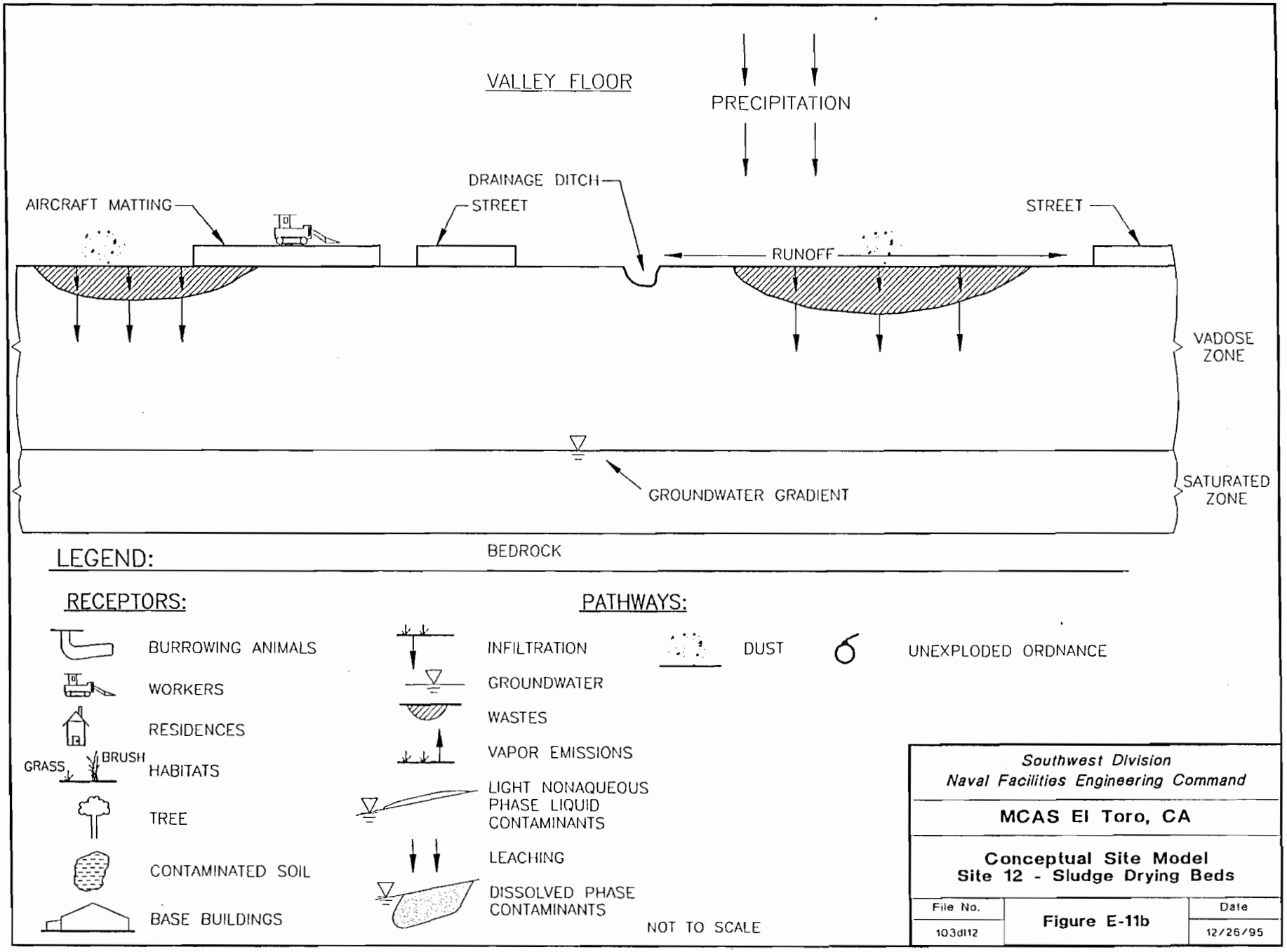
VALLEY FLOOR
PRECIPITATION
DRAINAGE DITCH
AIRCRAFT MATTING
STREET
STREET
RUNOFF
VADOSE ZONE
SATURATED ZONE
GROUNDWATER GRADIENT
BEDROCK
LEGEND:
RECEPTORS:
BURROWING ANIMALS
WORKERS
RESIDENCES
GRASS
BRUSH
HABITATS
TREE
CONTAMINATED SOIL
BASE BUILDINGS
PATHWAYS:
INFILTRATION
GROUNDWATER
WASTES
VAPOR EMISSIONS
LIGHT NONAQUEOUS PHASE LIQUID CONTAMINANTS
LEACHING
DISSOLVED PHASE CONTAMINANTS
DUST
UNEXPLODED ORDNANCE
NOT TO SCALE
Southwest Division
Naval Facilities Engineering Command
MCAS El Toro, CA
Conceptual Site Model
Site 12 - Sludge Drying Beds
File No.
103dl12
Figure E-11b
Date
12/26/95

TABLE 7-1

MCAS EL TORO MATERIALS INVENTORY

BLDG #	BASIN	BUILDING DESCRIPTION	TENANT	Concern Level	TRADE/COMMON NAME	MAX. DAY	AVE. Day	CONT.
314	01	Highbay Storage	Supply	Concern	Phosphoric Acid	220 gal	55 gal	55 gal
314	01	Highbay Storage	Supply	Concern	Unichem 606	385 gal	55 gal	55 gal
314	01	Highbay Storage	Supply	Concern	W.C.Chemical Engineer 710	2310 gal	550 gal	55 gal
315	01	MWSS-473		Limited	Cleaning Solvents	55 gal	25 gal	55 gal
315	01	MWSS-473		Limited	Dry Cleaning Solvent	719 gal	442 gal	55 gal
315	01	MWSS-473		Limited	SPIRAX OIL 80/90W	60 gal	15 gal	5 gal
317	01	Commissary Warehouse	DECA	Concern	Cleaning Compound	N/A	N/A	55 gal
317C2	01	Fenced Storage Yard	*Miranda's Landscaping*	Concern	Diesel Fuel	N/A	N/A	250 gal
317C3	01	Fenced Storage Yard		Concern	Fertilizer/Pesticides	N/A	N/A	N/A
317C1	01	Fenced Storage Yard	*Federal Disposal Service*	Concern	Waste Oil	N/A	N/A	55 gal
318	01	General Warehouse	Supply	Concern	Paints	N/A	N/A	N/A
320	01	Hazardous/Flammable Storage	Supply	Concern	Argon	6501 cf	600 cf	200 cf
320	01	Hazardous/Flammable Storage	Supply	Concern	Carbon Dioxide	1700 lb	1000 lb	500 lb
320	01	Hazardous/Flammable	Supply	Concern	Cleaning Compound	85 gal	55 gal	5 gal

M60050_003778
MCAS EL TORO
SSIC NO. 5090.3.A

SENSITIVE RECORD

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

AREA 27 – STORM DRAINS

FOR ADDITIONAL INFORMATION, CONTACT:

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

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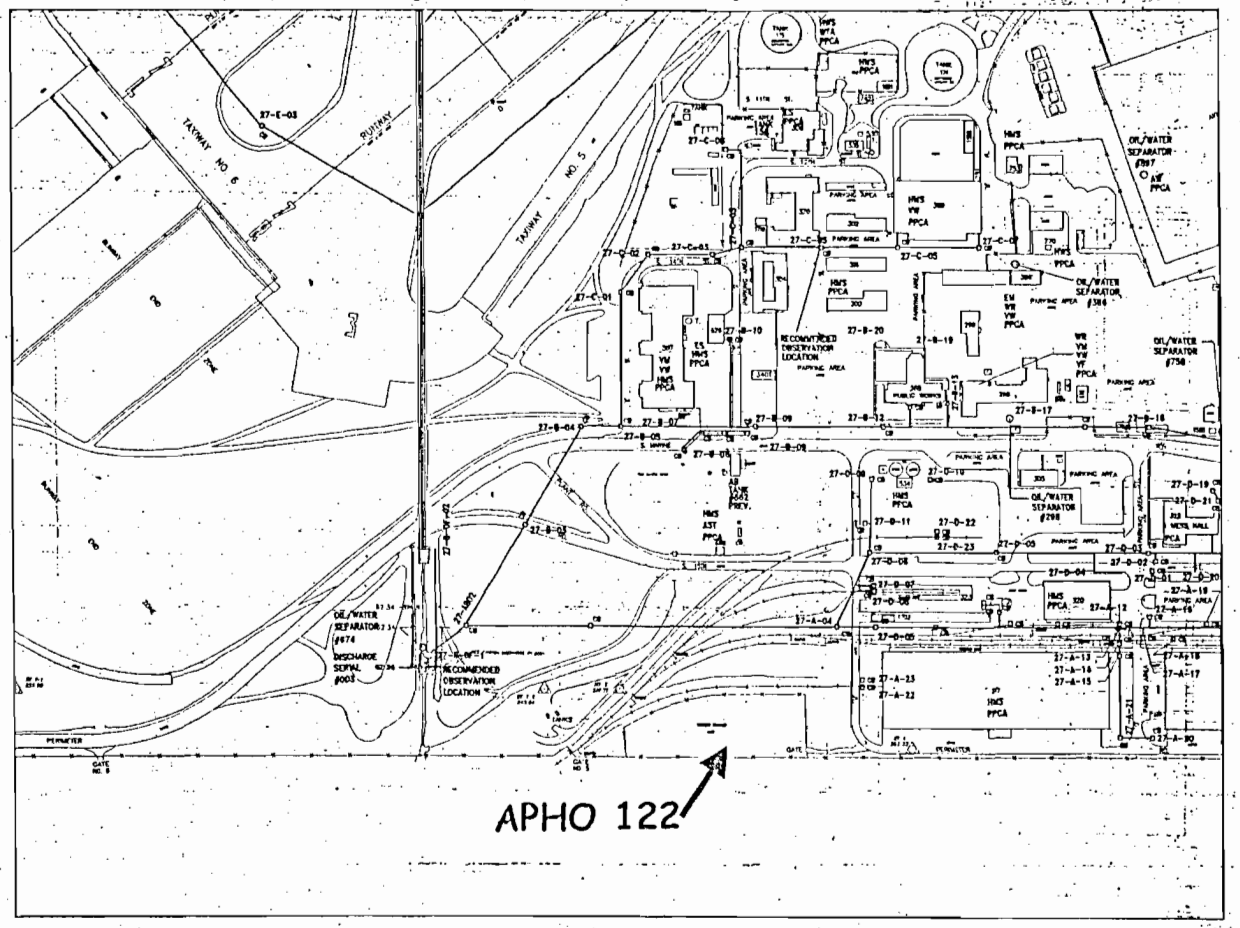
SENSITIVE

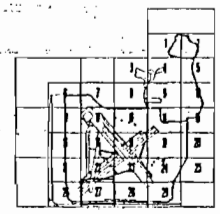


"MCAS" EL TORO - AREA 27
SCALE: 1" =150'-0"

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
PCA	-	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" 150 0 150 300 SCALE FEET

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

IEM
INTEGRATED ENVIRONMENTAL MANAGEMENT, INC.

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
SOUTHWEST DIVISION
EL TORO CALIFORNIA
MARINE CORPS AIR STATION EL TORO, CA.

"MCAS" EL TORO

AREA 27 - STORM DRAINS

SIZE D

S1WTRAREA27.PDF

SENSITIVE

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.

60 Percent Design Submittal

Shallow Groundwater Unit Remedy IRP Site 24, Volatile Organic Compound Source Area

Former Marine Corps Air Station, El Toro, California

EXCERPTS

Note: Annotations were made by the writer of the information package.

January 2004

Prepared for:

NAVFAC
Naval Facilities Engineering Command
SOUTHWEST DIVISION

Department of the Navy
Commander, Southwest Division
Naval Facilities Engineering Command
1220 Pacific Way
San Diego, CA 92132-5190

Prepared by:

Earth Tech, Inc.
841 Bishop Street, Suite 500
Honolulu, HI 96813-3920

Prepared under:

Pacific Division
Naval Facilities Engineering Command
Comprehensive Long-Term Environmental Action Navy
Contract Number N62742-94-D-0048, CTO 0068

M60050_003778
MCAS EL TORO
SSIC NO. 5090.3.A

SENSITIVE RECORD

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

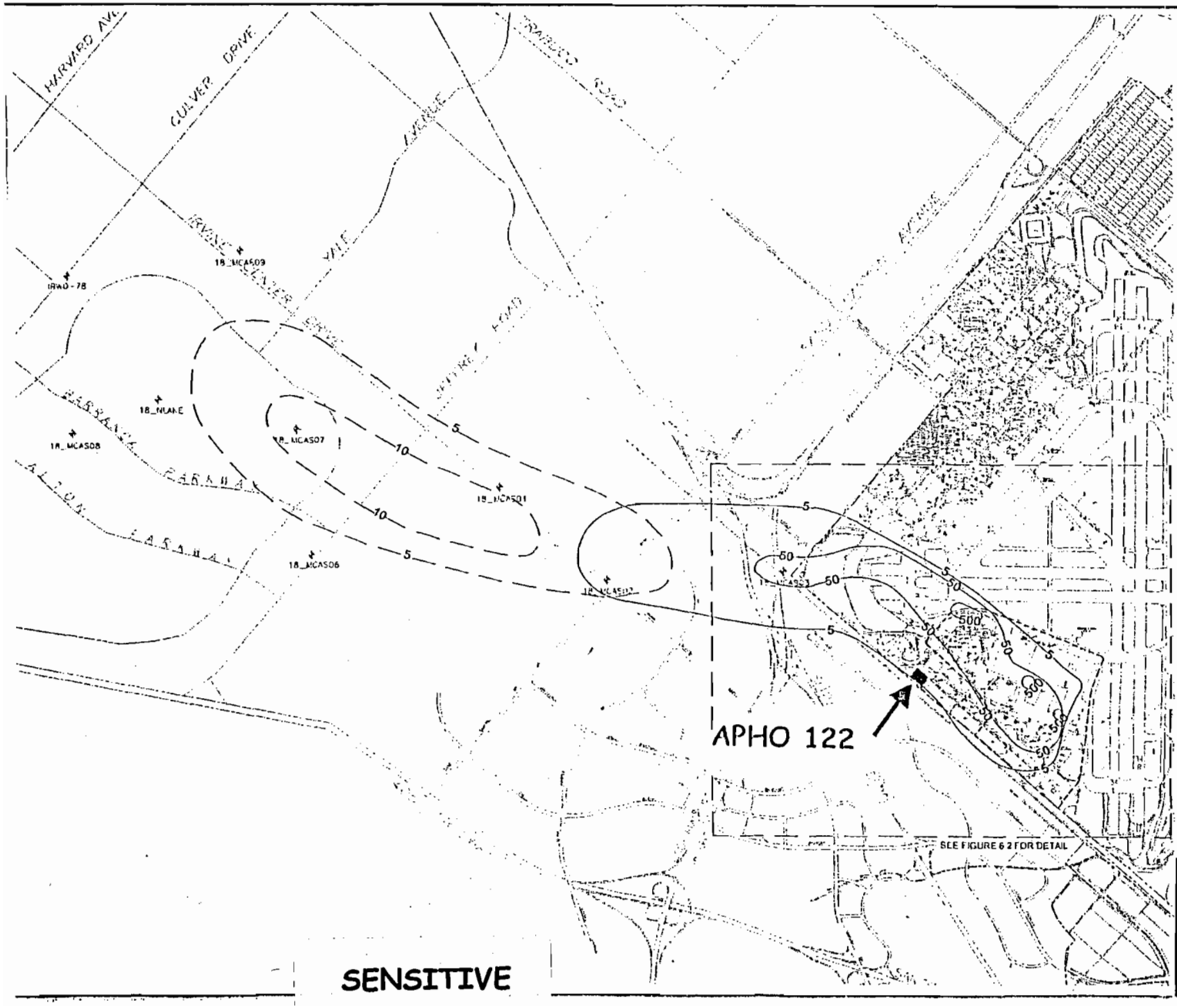
FIGURES 6-1 AND C-1

FOR ADDITIONAL INFORMATION, CONTACT:

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

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

SENSITIVE



LEGEND

- 18_MCAS 01 — Existing Groundwater Monitoring Well for Monitoring Off-Station Plume
- Former MCAS El Toro Boundary
- IRP Site 24 Boundary
- —5— TCE Isoconcentration Contour in SGU (µg/L) [Based on predesign investigation field sampling results obtained between June and October, 2003 (Earth Tech 2004) and March 2003 groundwater monitoring round (CDM 2003)]
- —5— TCE Isoconcentration Contour in Principal Aquifer (µg/L) [Based on March 2003 groundwater monitoring data (CDM 2003)]
- Detail Boundary

NORTH

0 1,000 2,000 FEET

SCALE: 1" = 2,000'

Remedial Design — 60% Design Submittal

Proposed Extraction and Monitoring Well Locations

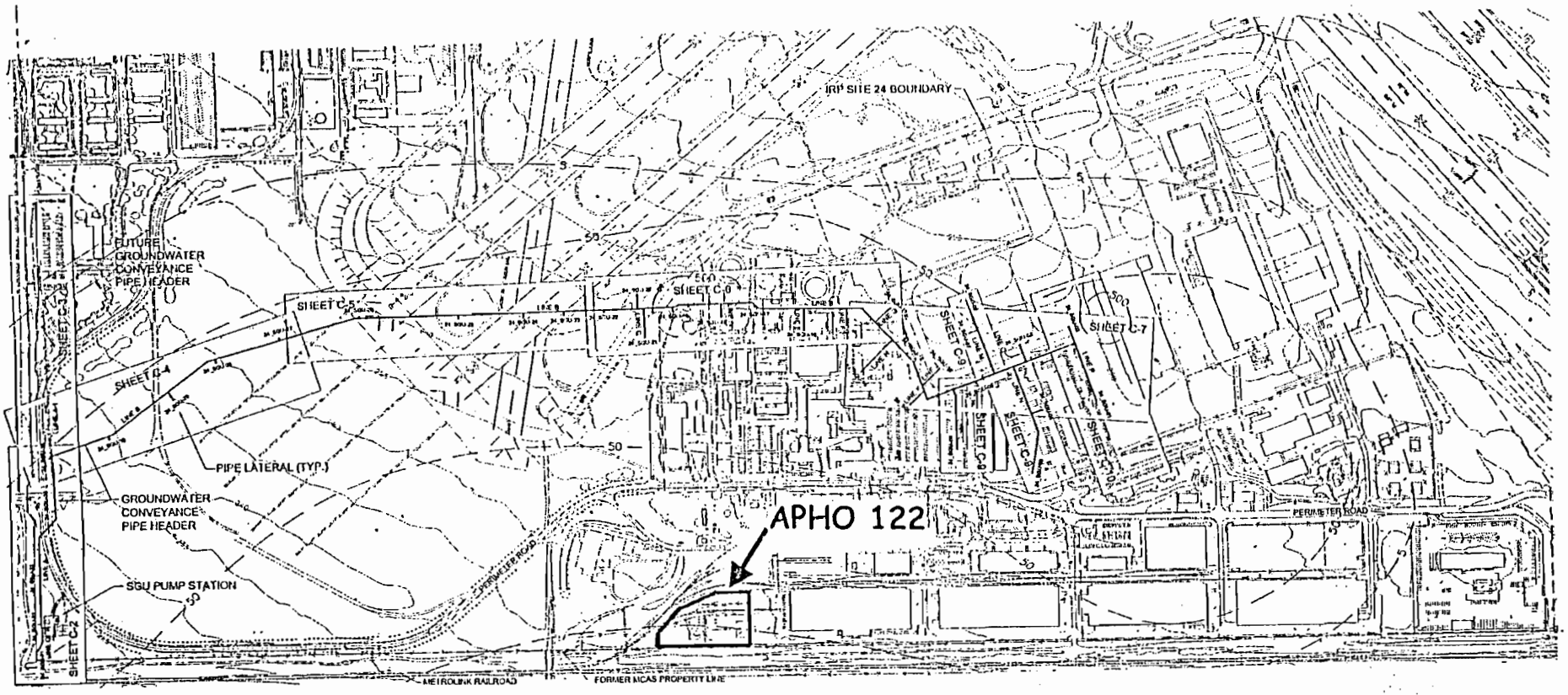
Off-Station Wells

IRP Site 24 VOC Source Area, SGU Remedy

Date: 01-04	Former MCAS El Toro	Figure
Project No. 29307	EARTH TECH — A Tyco International Ltd. Company	6-1

SENSITIVE

SENSITIVE



NOTES:

1. SEE SHEET T-2 FOR ABBREVIATIONS, GENERAL NOTES, LEGEND AND SYMBOLS.

60% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

Underground Service Alert
Call Toll FREE
1-800
227-2600

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Signature Date

IF SHEET IS LESS THAN (22" X 34") IT IS A REDUCED PRINT - SCALE IS REFLECTED accordingly

C-1

SYMBOL	DESCRIPTION	DATE	APPROVED

REVISIONS

SOUTHWEST DIVISION

REMEDIAL DESIGN SHALLOW GROUNDWATER UNIT REMEDY

EXISTING SITE CONDITIONS AND KEY PLAN

SIZE	CODE IDENT NO	NAVFAC DRAWING NO
D	XXXXX	—

SCALE: AS NOTED

SHEET 3 OF 21

SENSITIVE

EXCERPTS

FINAL

GROUNDWATER MONITORING REPORT
OCTOBER 1997 SAMPLING ROUND

GROUNDWATER MONITORING PROGRAM
FOR
MARINE CORPS AIR STATION EL TORO
EL TORO, CALIFORNIA

Contract No. N68711-96-D-2029
Delivery Order 005

Prepared for:

SOUTHWEST DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
1220 Pacific Highway
San Diego, California 92132

Prepared by:

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3760 Convoy Street, Suite 210
San Diego, California 92111

March 1998

Table 4-1: SUMMARY OF DETECTED VOLATILE ORGANIC COMPOUNDS
MCAS El Toro Groundwater Monitoring Program

Station ID	Base Screen Depth (Ft BGS)	Sample Date	PRIMARY VOCs DETECTED AND REGULATORY STANDARDS ~ All Results in Micrograms per Liter (ug/L)												OTHER VOCs DETECTED	
			TCE 5.0	PCE 5.0	CCl_4 0.5	1,1-DCE 6.0	1,2-DCE (total)	Chloroform 100.0	Chloro-methane	Benzene 1.0	Toluene 100.0	Ethyl-benzene 680.0	Xylenes (total) 1750.0	Freon-113	Compound	Concent
09_DBMW45	157	20-Jul-92	1000.0 D	5.0	3.0	2.0	1.0 U	2.0	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U			
		12-Oct-92	1600.0 E	7.0	6.0	1.0 U	1.0 U	2.0	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	70.0 JN		
		12-Oct-92	2000.0 E	8.0	7.0	4.0	1.0	3.0	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U		1,2-DICHLOROETHANE	0.5 J
		13-Jul-93	1700.0 D	5.0	5.0	1.0 U	1.0 U	2.0	10.0 U	1.0 U	8.0	1.0 U	1.0 U	30.0 JN		
		20-Nov-95	250.0	3.0 J	3.0 J			10.0								
		15-Feb-96	679.0	4.0	3.0	3.0	1.0 U	2.0 U	10.0 U	1.0 U	8.0	1.0 U	1.0 U	10.0 U		
		18-Nov-96	604.0	6.0	4.0	4.0	0.9 J	2.0	10.0 U	1.0 U	1.0 J	1.0 U	1.0 U	20.0	1,1,2,2-TETRACHLOROETHAN	0.8 J
															1,2-DICHLOROETHANE	1.0
															BROMODICHLOROMETHANE	0.9 J
															CHLOROBENZENE	2.0 J
															CHLORODIBROMOMETHANE	0.9 J
															METHYLENE CHLORIDE	2.0
		24-Mar-97	1450.0	5.0	3.0	7.0	1.0 U	2.0	10.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 J		
		8-Jul-97	1400.0	5.0	4.0	7.0	1.0 U	2.0	10.0 U	1.0 U	1.0 U	1.0 U	1.0 U	7.0 J		
		8-Jul-97	1500.0	5.0	4.0	1.0 U	1.0 U	2.0	500.0 U	1.0 U	1.0 U	1.0 U	1.0 U	7.0 J		
		22-Oct-97	1800.0	6.0	4.0	8.0	0.6 J	2.0	10.0 U	1.0 U	1.0 U	1.0 U	1.0 U	7.0 J	ACETONE	160.0 JBD
															METHYLENE CHLORIDE	47.0 JBD
09_DGMW75	154	12-Jan-92	270.0 D	8.0	3.0	0.5 J	1.0 U	0.9 J	0.6 J	1.0 BJ	1.0 U	1.0 U	1.0 U			
		7-Dec-93	280.0 D	5.0	2.0	1.0 U	1.0 U	0.9 J	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U			
		14-Feb-96	293.0	2.0	1.0	1.0 U	1.0 U	1.0	10.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.0 U		
		4-Dec-96	468.0	9.0	3.0	3.0	1.0 U	2.0	10.0 U	1.0 U	1.0 U	1.0 U	1.0 U	12.0		
		25-Mar-97	483.0	200.0 U	200.0 U	200.0 U	200.0 U	200.0 U	2000.0 U	200.0 U	200.0 U	200.0 U	200.0 U	200.0 U	METHYLENE CHLORIDE	210.0
		8-Jul-97	450.0	5.0	2.0	1.0 U	1.0 U	2.0	10.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.0 J		
		8-Jul-97	430.0	5.0	2.0	1.0 U	1.0 U	2.0	10.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.0 J		
		23-Oct-97	390.0 E	5.0	3.0	3.0	1.0 U	2.0	10.0 U	1.0 U	1.0 U	1.0 U	1.0 U	7.0 J		
		23-Oct-97	480.0 D	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	250.0 U	25.0 U	25.0 U	25.0 U	25.0 U	250.0 U		
10_DGMW77	170	17-Nov-92	35.0 E	8.0	2.0	0.6 J	1.0 U	1.0	1.0 J	1.0 U	1.0 U	1.0 U	1.0 U			
		13-Aug-93	61.0 D	3.0	3.0	1.0 U	1.0 U	2.0	2.0 U	0.7 J	1.0 U	1.0 U	1.0 U			
		14-Feb-96	57.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0	10.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.0 U		
		4-Dec-96	105.0	3.0	2.0	0.7 J	1.0 U	2.0	10.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3 J		
		24-Mar-97	107.0	1.0	1.0	0.9 J	1.0 U	2.0	10.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.0 U	METHYLENE CHLORIDE	1.0
		10-Jul-97	100.0	1.0 U	1.0	1.0 U	1.0 U	2.0	10.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.0 U		
		28-Oct-97	74.0 D	1.0	1.0	0.5 J	1.0 U	1.0	10.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.0 U	METHYLENE CHLORIDE	0.5 J
12_DBMW48	135	17-Nov-92	0.8 J	18.0	0.5 J	1.0 U	1.0 U	1.0 U	2.0 J	1.0 U	1.0 U	1.0 U	1.0 U	240.0 JN		
		27-Jul-93	0.7 J	14.0	0.6 J	1.0 U	1.0 U	1.0 U	1.0 J	1.0 U	1.0 U	1.0 U	1.0 U			
		16-Feb-96	19.0	7.0	1.0 U	1.0 U	1.0 U	1.0 U	10.0 U	1.0 U	8.0	1.0 U	1.0 U	10.0 U		
		13-Nov-96	0.8 J	13.0	1.0 U	1.0 U	1.0 U	1.0 U	10.0 U	1.0 U	1.0 U	1.0 U	1.0 U	221.0		
		17-Mar-97	10.0 U	10.0	10.0 U	10.0 U	10.0 U	10.0 U	100.0 U	10.0 U	10.0 U	10.0 U	10.0 U	140.0	METHYLENE CHLORIDE	10.0
		17-Mar-97	10.0 U	10.0	10.0 U	10.0 U	10.0 U	10.0 U	100.0 U	10.0 U	10.0 U	10.0 U	10.0 U	140.0	METHYLENE CHLORIDE	21.0

Table 4-1: SUMMARY OF DETECTED VOLATILE ORGANIC COMPOUNDS
MCAS El Toro Groundwater Monitoring Program

Station ID	Base Screen Depth (Ft BGS)	Sample Date	PRIMARY VOCs DETECTED AND REGULATORY STANDARDS – All Results in Micrograms per Liter (ug/L)												OTHER VOCs DETECTED	
			TCE	PCE	CCl_4	1,1-DCE	1,2-DCE (total)	Chloroform	Chloro-methane	Benzene	Toluene	Ethyl-benzene	Xylenes (total)	Freon-113	Compound	Concent
			5.0	5.0	0.5	6.0		100.0		1.0	100.0	680.0	1750.0			
18_MCAS10	375	11-Jul-89	0.5 U	0.5 U	0.5 U		0.5 U	9.7			0.5 U	0.5 U				
		7-Nov-89	0.5 U	0.5 U	0.5 U		0.5 U	9.7			0.5 U	0.5 U				
		31-Jan-90	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U			0.5 U	0.5 U				
		20-Jul-90	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U			0.5 U	0.5 U				
		18-Nov-90	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U			0.5 U	0.5 U				
		3-Feb-91	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U			0.5 U	0.5 U				
		2-Mar-91	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U			0.5 U	0.5 U				
		12-Jul-91	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U			0.5 U	0.5 U				
		7-Dec-91	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U			0.5 U	0.5 U				
		12-Feb-92	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U			0.5 U	0.5 U				
		8-May-92	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U			0.5 U	0.5 U				
		5-Aug-92	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U			0.5 U	0.5 U				
		27-Aug-92	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U			0.5 U	0.5 U				
		2-Dec-92	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U			0.5 U	0.5 U				
		11-Apr-93	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 J	1.0 U	1.0 U	1.0 U	1.0 U			
		23-Apr-93	0.5 U	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U				
		29-Nov-94	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
		6-Jul-95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
		19-Jan-96	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.0 U	1.0 U	16.0	1.0 U	1.0 U	10.0 U		
		24-Jan-96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
		14-Jul-96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
		19-Nov-96	3.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.0 U		
		19-Jan-97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
		18-Mar-97	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.0 U		
		18-Mar-97	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.0 U		
		14-Jul-97	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.0 U		
		29-Oct-97	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.0 U	0.6 J	1.0 U	1.0 U	1.0 U	10.0 U	METHYLENE CHLORIDE	0.5 J
18_PS1	122	15-Dec-88	19.0	0.5 U	0.3		0.5 U	0.5 U			0.5 U	0.5 U			CHLOROBENZENE	0.3
		22-Jan-89	17.0	0.5 U	0.4		0.5 U	0.5 U			0.5 U	0.5 U				
		7-Feb-93	3.0	0.6 J	1.0 J	1.0 U	1.0 U	2.0	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U			
		19-Jan-96	2.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.0 U	1.0 U	18.0	1.0 U	1.0 U	10.0 U		
		25-Nov-96	15.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.0 U		
		17-Mar-97	3.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.0 U		
		17-Mar-97	3.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.0 U		
18_PS2	133	16-Dec-88	0.5 U	0.5 U	0.5 U		0.5 U	0.5 U			0.5 U	0.5 U				
		22-Jan-89	0.5 U	0.5 U	0.5 U		0.5 U	0.2			0.5 U	0.5 U				
		15-Dec-92	0.9 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U			
		7-Dec-93	2.0	1.0 U	1.0 U	1.0 U	1.0 U	0.7 J	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U			
		18-Jan-96	4.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.0 U	1.0 U	35.0	1.0 U	1.0 U	10.0 U		
		25-Nov-96	12.0	1.0 U	1.0 U	1.0 U	0.7 J	1.0	10.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.0 U		
		25-Mar-97	15.0	0.5 J	1.0 U	1.0 U	1.0 U	1.0	10.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.0 U		
		7-Jul-97	13.0	1.0 U	1.0 U	1.0 U	0.7 J	1.0	10.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.0 U		
		24-Oct-97	18.0	1.0 U	1.0 U	1.0 U	0.8 J	2.0	10.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.0 U	BROMODICHLOROMETHANE	0.4 J

Table 6-1: SUMMARY OF PESTICIDES AND PCB ANALYSES
MCAS El Toro Groundwater Monitoring Program

Station ID	Base Screen Depth (Ft BGS)	Sample Date	ANALYSIS SUMMARY		TCL PESTICIDE COMPOUNDS DETECTED			REGULATORY	
			Number Compounds Analyzed	Number Compounds Detected	Compound Detected	Concent. ug/L	Qual. Flag	Standard ug/L	Code
07_DBMW100	171	8-Dec-92	28	0					
		8-Dec-92	28	0					
		4-Jun-93	28	0					
07_DGMW71	155	15-Dec-92	28	0					
		22-Jun-93	28	0					
07_DGMW72	150	19-Nov-92	28	0					
		21-Jul-93	28	0					
		15-Oct-93	28	0					
07_DGMW91	150	16-Dec-92	28	0					
		21-Jul-93	28	0					
08_DGMW73	130	2-Dec-92	28	0					
		20-Jul-93	28	0					
		20-Jul-93	28	0					
		14-Feb-96	28	0					
		20-Mar-97	28	1	ENDOSULFAN SULFATE	0.300			NA
08_DGMW74	130	16-Nov-92	28	0					
		16-Nov-92	28	0					
		16-Nov-92	28	0					
		16-Nov-92	28	0					
		20-Jul-93	28	0					
		14-Feb-96	28	0					
		19-Mar-97	28	1	ENDOSULFAN SULFATE	0.400			NA
		19-Mar-97	28	1	ENDOSULFAN SULFATE	0.400			NA
08_UGMW29	135	8-Dec-92	28	0					
		9-Jul-93	28	0					
		9-Jul-93	28	0					
		14-Feb-96	28	0					
		25-Nov-96	28	0					
		12-Mar-97	28	1	ENDOSULFAN SULFATE	0.600			NA
09_DBMW45	157	10-Dec-92	28	0					
	-	10-Dec-92	28	0					
		13-Jul-93	28	0					
09_DGMW75	154	1-Dec-92	28	0					
		12-Jul-93	28	0					
10_DGMW77	170	17-Nov-92	28	0					
		13-Aug-93	28	0					
12_DBMW48	135	17-Nov-92	28	0					
		27-Jul-93	28	0					
12_UGMW31	145	8-Oct-92	28	0					
		7-Jul-93	28	0					
13_DBMW49	182	16-Nov-92	28	0					
		30-Jun-93	28	0					
		30-Jun-93	28	0					

Table 6-1: SUMMARY OF PESTICIDES AND PCB ANALYSES
MCAS El Toro Groundwater Monitoring Program

Station ID	Base Screen Depth (Ft BGS)	Sample Date	ANALYSIS SUMMARY		TCL PESTICIDE COMPOUNDS DETECTED			REGULATORY	
			Number Compounds Analyzed	Number Compounds Detected	Compound Detected	Concent. ug/L	Qual. Flag	Standard ug/L	Code
18_MCAS06	222	16-Jun-93	28	0					
18_MCAS07-1	100	27-Oct-93	28	0					
		27-Oct-93	28	0					
18_MCAS07-2	200	21-Oct-93	28	0					
18_MCAS07-3	360	22-Oct-93	28	0					
18_MCAS07-4	450	25-Oct-93	28	0					
18_MCAS07-5	520	26-Oct-93	28	0					
18_MCAS07-6	810	28-Oct-93	28	0					
18_MCAS07-7	920	29-Oct-93	28	0					
18_MCAS07-8	989	1-Nov-93	28	0					
18_MCAS07-9	1110	2-Nov-93	28	0					
18_MCAS09	445	5-Nov-93	28	0					
		5-Nov-93	28	0					
18_MCAS10	375	4-Nov-93	28	0					
18_PS1	122	2-Jul-93	28	0					
18_PS2	133	15-Dec-92	28	0					
		12-Jul-93	28	0					
18_PS3	122	10-Dec-92	28	0					
		7-Jun-93	28	0					
18_PS5	118	16-Dec-92	28	0					
		8-Jun-93	28	0					
18_PS6	125	15-Dec-92	28	0					
		15-Dec-92	28	0					
18_PS7	126	16-Dec-92	28	1	ENDOSULFAN SULFATE	0.003			NA
		2-Jul-93	28	0					
		22-Jan-95	28	0					
		8-Nov-96	28	0					
		14-Mar-97	28	1	ENDOSULFAN SULFATE	0.400			NA
18_PS8	145	14-Dec-92	28	0					
		6-Jul-93	28	0					
18_RW1	470	14-Dec-92	28	0					
		15-Dec-92	28	0					
		8-Jul-93	28	0					
18_RW2	310	22-Dec-92	28	0					
		13-Jul-93	28	0					

Table 6-2: SUMMARY OF HERBICIDE ANALYSES
MCAS El Toro Groundwater Monitoring Program

Station ID	Base Screen Depth (Ft BGS)	Sample Date	ANALYSIS SUMMARY		HERBICIDE COMPOUNDS DETECTED			REGULATORY	
			Number Compounds Analyzed	Number Compounds Detected	Compound Detected	Concent. ug/L	Qual. Flag	Standard ug/L	Code
05_DGMW68	210	17-Dec-92	10	0					
		29-Jun-93	10	0					
		9-Jan-96	8	0					
		27-Feb-96	8	0					
		15-Nov-96	8	0					
		5-Mar-97	8	0					
05NEW1	203	28-Dec-95	8	0					
		13-Nov-96	8	0					
		13-Mar-97	8	0					
05_UGMW27	238	3-Jun-93	10	0					
		3-Jun-93	10	0					
		17-Aug-95	8	0					
		8-Dec-95	8	0					
		29-Jan-96	8	0					
		13-Nov-96	8	0					
		13-Mar-97	8	0					
07_DGMW72	150	21-Jul-93	10	0					
		15-Oct-93	10	0					
07_DGMW91	150	18-Dec-92	10	0					
08_DGMW73	130	2-Dec-92	10	0					
		20-Jul-93	10	0					
		20-Jul-93	10	0					
		20-Mar-97	8	0					
06_DGMW74	130	16-Nov-92	10	0					
		16-Nov-92	10	0					
		20-Jul-93	10	0					
		19-Mar-97	8	0					
		19-Mar-97	8	0					
08_UGMW29	135	9-Jul-93	10	0					
		9-Jul-93	10	0					
		12-Mar-97	8	0					
12_DBMW48	135	17-Nov-92	10	0					
		27-Jul-93	10	0					
		16-Feb-96	8	0					
12_UGMW31	145	8-Oct-92	10	9	2,4 DICHLOROPHENOXY ACETIC ACID	8.56		70.00	1
					2,4,5-TP (SILVEX)	2.67		10.00	2
					2,4,5-TRICHLOROPHENOXYACETIC ACID	2.51			NA
					2,4-DB	2.88	J		NA
					DALAPON	2.46	J		NA
					DICAMBA	4.39			NA
					DICHLOROPROP	6.41			NA
					MCPA	3490.00			NA
					MCPP	3530.00			NA
		7-Jul-93	10	0					
		14-Feb-96	8	0					
		13-Nov-96	8	0					
15_DBMW51	165	8-Oct-93	10	0					

Table 6-2: SUMMARY OF HERBICIDE ANALYSES
MCAS El Toro Groundwater Monitoring Program

Station ID	Base Screen Depth (Ft BGS)	Sample Date	ANALYSIS SUMMARY		HERBICIDE COMPOUNDS DETECTED			REGULATORY	
			Number Compounds Analyzed	Number Compounds Detected	Compound Detected	Concent. ug/L	Qual. Flag	Standard ug/L	Code
18_BGMW24	71	9-Jul-93	10	0					
18_DW135	135	22-Dec-92	10	0					
		22-Dec-92	10	0					
18_DW250	250	21-Dec-92	10	0					
		6-Jul-93	10	0					
18_DW350	350	11-Jan-93	10	0					
		15-Jun-93	10	0					
18_DW450	450	12-Jan-93	10	0					
		30-Jun-93	10	0					
18_DW540	540	13-Jan-93	10	0					
		1-Jul-93	10	0					
18_PS1	122	2-Jul-93	10	0					
18_PS2	133	15-Dec-92	10	0					
		12-Jul-93	10	0					
18_PS3	122	10-Dec-92	10	0					
		7-Jun-93	10	0					
18_PS4	118	11-Dec-92	10	0					
		7-Jun-93	10	0					
18_PS5	126	16-Dec-92	10	0					
		8-Jun-93	10	0					
18_PS6	150	15-Dec-92	10	0					
		15-Dec-92	10	0					
18_PS7	126	16-Dec-92	10	0					
		2-Jul-93	10	0					
18_PS8	145	14-Dec-92	10	0					
		6-Jul-93	10	0					
18_RW1	470	14-Dec-92	10	0					
		15-Dec-92	10	1	2,4,5-TRICHLOROPHENOXYACETIC ACID	11.40	I		NA
		6-Jul-93	10	0					
		23-Jan-96	8	0					
		8-Nov-96	8	0					
		17-Mar-97	8	0					
		17-Mar-97	8	0					
18_RW2	310	22-Dec-92	10	0					
		13-Jul-93	10	0					
18_RW3	390	4-Jun-93	10	0					
18_RW4	85	7-Jun-93	10	0					

Table B-1: WATER LEVEL MEASUREMENTS AND GROUNDWATER ELEVATIONS
MCAS El Toro Groundwater Monitoring Program

STATION ID	WELL TYPE	SCREEN INTERVAL (feet BGS)	TOP OF CASING ELEVATION (feet MSL)	MEASUREMENT DATE	DEPTH TO WATER (feet TOC)	WATER LEVEL ELEVATION (feet MSL)	CHANGE FROM PRIOR ELEVATION (+ or - feet)
18_PS1	SH	102 - 122	247.99	11-Jan-96	86.98	161.01	
			247.99	19-Jan-96	86.90	161.09	0.08
			247.99	26-Feb-96	86.65	161.34	0.25
			247.99	27-Mar-96	86.41	161.58	0.24
			247.99	31-Oct-96	86.61	161.38	-0.20
			247.99	26-Nov-96	86.36	161.63	0.25
			247.99	26-Dec-96	86.42	161.57	-0.06
			247.99	23-Jan-97	86.12	161.87	0.30
			247.99	27-Mar-97	85.68	162.31	0.44
			247.99	26-Jun-97	86.02	161.97	-0.34
			247.99	11-Aug-97	86.25	161.74	-0.23
			247.99	24-Sep-97	85.87	162.12	0.38
			247.99	5-Nov-97	85.92	162.07	-0.05
18_PS2	SH	103 - 133	246.73	11-Jan-96	99.50	147.23	
			246.73	18-Jan-96	99.42	147.31	0.08
			246.73	26-Feb-96	98.96	147.77	0.46
			246.73	27-Mar-96	98.62	148.11	0.34
			246.73	31-Oct-96	99.18	147.55	-0.56
			246.73	27-Nov-96	99.08	147.65	0.10
			246.73	26-Dec-96	99.04	147.69	0.04
			246.73	23-Jan-97	98.58	148.15	0.46
			246.73	27-Feb-97	97.91	148.82	0.67
			246.73	27-Mar-97	89.10	157.63	8.81
			246.73	26-Jun-97	98.68	148.05	-9.58
			246.73	11-Aug-97	98.86	147.87	-0.18
			246.73	25-Sep-97	98.62	148.11	0.24
			246.73	5-Nov-97	98.54	148.19	0.08
18_PS3	SH	102 - 122	266.47	11-Jan-96	87.30	179.17	
			266.47	22-Feb-96	84.10	182.37	3.20
			266.47	28-Feb-96	84.06	182.41	0.04
			266.47	27-Mar-96	83.84	182.63	0.22
			266.47	26-Feb-97	83.30	183.17	0.54
			266.47	27-Jun-97	83.56	182.91	-0.26
			266.47	12-Aug-97	83.66	182.81	-0.10
			266.47	24-Sep-97	83.29	183.18	0.37
			266.47	5-Nov-97	83.28	183.19	0.01
18_PS4	SH	98 - 118	264.53	12-Jan-96	79.85	184.68	
			264.53	21-Feb-96	76.50	188.03	3.35
			264.53	28-Feb-96	76.45	188.08	0.05
			264.53	27-Mar-96	76.25	188.28	0.20
			264.53	31-Oct-96	77.26	187.27	-1.01
			264.53	27-Nov-96	77.75	186.78	-0.49
			264.53	26-Dec-96	76.40	188.13	1.35
			264.53	24-Jan-97	76.13	188.40	0.27
			264.53	26-Feb-97	75.84	188.69	0.29
			264.53	27-Mar-97	75.70	188.83	0.14
			264.53	27-Jun-97	75.96	188.57	-0.26
			264.53	12-Aug-97	76.08	188.45	-0.12
			264.53	24-Sep-97	75.72	188.81	0.36
			264.53	5-Nov-97	75.78	188.75	-0.06

Table B-1: WATER LEVEL MEASUREMENTS AND GROUNDWATER ELEVATIONS
MCAS El Toro Groundwater Monitoring Program

STATION ID	WELL TYPE	SCREEN INTERVAL (feet BGS)	TOP OF CASING ELEVATION (feet MSL)	MEASUREMENT DATE	DEPTH TO WATER (feet TOC)	WATER LEVEL ELEVATION (feet MSL)	CHANGE FROM PRIOR ELEVATION (+ or - feet)
10_DGMW77	WT	130 - 170	271.40	11-Jan-96	104.60	166.80	
			271.40	14-Feb-96	104.78	166.62	-0.18
			271.40	27-Feb-96	104.75	166.65	0.03
			271.40	27-Mar-96	104.34	167.06	0.41
			271.40	30-Oct-96	104.68	166.72	-0.34
			271.40	26-Nov-96	104.25	167.15	0.43
			271.40	26-Dec-96	104.30	167.10	-0.05
			271.40	23-Jan-97	103.82	167.58	0.48
			271.40	26-Feb-97	103.45	167.95	0.37
			271.40	27-Mar-97	103.60	167.80	-0.15
			271.40	26-Jun-97	103.98	167.42	-0.38
			271.40	12-Aug-97	104.14	167.26	-0.16
			271.40	24-Sep-97	103.70	167.70	0.44
			271.40	7-Nov-97	103.71	167.69	-0.01
12_DBMW48	WT	95 - 135	247.81	11-Jan-96	90.86	156.95	
			247.81	16-Feb-96	90.49	157.32	0.37
			247.81	27-Feb-96	90.43	157.38	0.06
			247.81	27-Mar-96	90.11	157.70	0.32
			247.81	30-Oct-96	90.16	157.65	-0.05
			247.81	26-Nov-96	90.00	157.81	0.16
			247.81	26-Dec-96	90.08	157.73	-0.08
			247.81	23-Jan-97	89.68	158.13	0.40
			247.81	26-Feb-97	89.36	158.45	0.32
			247.81	27-Mar-97	90.10	157.71	-0.74
			247.81	26-Jun-97	89.65	158.16	0.45
			247.81	11-Aug-97	89.86	157.95	-0.21
			247.81	24-Sep-97	89.53	158.28	0.33
			247.81	5-Nov-97	89.51	158.30	0.02
12_UGMW31	WT	105 - 145	255.82	11-Jan-96	96.74	159.08	
			255.82	14-Feb-96	96.26	159.56	0.48
			255.82	27-Feb-96	96.28	159.54	-0.02
			255.82	27-Mar-96	96.02	159.80	0.26
			255.82	30-Oct-96	96.10	159.72	-0.08
			255.82	26-Nov-96	95.89	159.93	0.21
			255.82	26-Dec-96	95.94	159.88	-0.05
			255.82	23-Jan-97	95.54	160.28	0.40
			255.82	27-Feb-97	95.02	160.80	0.52
			255.82	27-Mar-97	95.26	160.56	-0.24
			255.82	26-Jun-97	95.54	160.28	-0.28
			255.82	12-Aug-97	95.75	160.07	-0.21
			255.82	24-Sep-97	95.41	160.41	0.34
			255.82	5-Nov-97	95.40	160.42	0.01
13_DBMW49	WT	142 - 182	280.63	11-Jan-96	129.04	151.59	
			280.63	6-Feb-96	128.73	151.90	0.31
			280.63	27-Feb-96	128.41	152.22	0.32
			280.63	27-Mar-96	128.22	152.41	0.19
			280.63	31-Oct-96	129.47	151.16	-1.25
			280.63	26-Nov-96	128.68	151.95	0.79
			280.63	26-Dec-96	128.38	152.25	0.30
			280.63	24-Jan-97	127.54	153.09	0.84
			280.63	27-Feb-97	126.94	153.69	0.60
			280.63	27-Mar-97	127.88	152.75	-0.94
			280.63	26-Jun-97	128.97	151.66	-1.09
			280.63	11-Aug-97	129.26	151.37	-0.29
			280.63	25-Sep-97	128.95	151.68	0.31
			280.63	5-Nov-97	127.98	152.65	0.97