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MCAS EL TORO  
SSIC # 5090.3

CLEAN II Program  
Bechtel Job No. 22214  
Contract No. N68711-92-D-4670  
File Code: 0202

# Bechtel

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San Diego, CA 92101-7905

IN REPLY REFERENCE: CTO-0076/000006

8 May, 1995

Department of the Navy  
Southwest Division  
Naval Facilities Engineering Command  
Contracts Department  
1220 Pacific Highway, Room 135  
San Diego, CA 92131-5187

Attention: Ginny Garelick  
Code 1852.VG

Subject: Inserts for Presentation Package, Site Walk at MCAS El Toro, 2 May 1995

Dear Ms. Garelick:

Enclosed are five revised pages which need to be inserted into the handout "Recommended No Further Action and Removal Action OU-3 Sites". This handout was distributed to the BCT as part of the site walk presentation given by Pat Wiegand and John Scholfield on 2 May 1995.

After your conversation with John regarding Site 19, he checked his copy of the Clean I Executive Summary and confirmed that it did not contain Site 19 either. Call him at (619) 6897-8864 if you have any questions.

Very truly yours,



David K. Cowser  
Project Manager

DKC/cjg

Attachment: Five pages of revisions

As agreed by the Base Closure Team (BCT) during the meeting of April 24 and 25, 1995, this letter has been prepared to address the status of specific units at four Operable Unit (OU)-3 sites at MCAS El Toro that have been recommended for a "No Further Action at this time" designation as proposed in the Revised Draft Work Plan for the Phase II RI/FS. With approval of this interim designation, the recommended units will not be investigated as part of the Phase II RI/FS. However, site specific baseline risk assessments covering all of the units comprising each site will be conducted during the Phase II RI/FS to confirm that the aforementioned recommendations were appropriate. Information utilized to make a "No further Action at this time" recommendation for the units listed below has been obtained from the following documents produced for MCAS El Toro:

- Phase I RI Technical Memorandum;
- EPA Aerial Photograph Survey;
- SAIC Aerial Photograph Survey;
- Soil Gas Survey Report; and
- Draft and Revised Draft Work Plans for the Phase II RI/FS.

Concurrence with the recommendation of "No Further Action at this time" for the units identified below are designated by initializing either agree or disagree on the line below the unit. If you disagree please briefly note the reason(s) on the lines below each unit. To formalize this letter please date and sign your name on the bottom-most line, and print your name and title below your signature.

Site 7 (Drop Tank Drainage Area No. 1) - Unit 2 (Old East Pavement Edge):

Agree for "No Further Action at this time": \_\_\_\_\_(initials)

Disagree for "No Further Action at this time": \_\_\_\_\_(initials)

Reason: \_\_\_\_\_

Site 8 (Defense Reutilization and Marketing Office Storage Yard) (DRMO) - Unit 2 (West Storage Yard):

Agree for "No Further Action at this time": \_\_\_\_\_(initials)

Disagree for "No Further Action at this time": \_\_\_\_\_(initials)

Reason: \_\_\_\_\_

Site 20 (Hobby Shop) - Unit 1 (East Drainage Ditch):

Agree for "No Further Action at this time": \_\_\_\_\_(initials)

Disagree for "No Further Action at this time": \_\_\_\_\_(initials)

Reason: \_\_\_\_\_

Site 22 (Tactical Air Fueling Dispensing System) (TAFDS) - Unit 2 (Eastern Area)

Agree for "No Further Action at this time": \_\_\_\_\_(initials)

Disagree for "No Further Action at this time": \_\_\_\_\_(initials)

Reason: \_\_\_\_\_

\_\_\_\_\_  
Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Affiliation

\_\_\_\_\_  
Date

As agreed by the Base Closure Team (BCT) during the meeting of April 24 and 25, 1995, this letter has been prepared to address the status of specific units at five Operable Unit (OU)-3 sites at MCAS El Toro that have been recommended for a "Removal Action" designation. With approval of this interim designation, the recommended units will follow the "Removal Action" process. Site specific baseline risk assessments covering all of the units comprising each site will be conducted during the Phase II RI/FS to confirm that the removal action was successful. Information utilized to make a "Removal Action" recommendation for the units listed below has been obtained from the following documents produced for MCAS El Toro:

- Phase I RI Technical Memorandum;
- EPA Aerial Photograph Survey;
- SAIC Aerial Photograph Survey;
- Soil Gas Survey Report; and
- Draft and Revised Draft Work Plans for the Phase II RI/FS.

Concurrence with the recommendation of "Removal Action" for the units identified below are designated by initializing either agree or disagree on the line below the unit. If you disagree please briefly note the reason(s) on the lines below each unit. To formalize this letter please date and sign your name on the bottom-most line, and print your name and title below your signature.

Site 7 (Drop Tank Drainage Area No. 1) - Unit 3 (New East Pavement Edge):

Agree for "Removal Action": \_\_\_\_\_(initials)

Disagree for "Removal Action": \_\_\_\_\_(initials)

Reason: \_\_\_\_\_

Site 8 (Defense Reutilization and Marketing Office Storage Yard) (DRMO) - Unit 1 (East Storage Yard) and Unit 4 (PCB Spill Area):

Agree for "Removal Action": \_\_\_\_\_(initials)

Disagree for "Removal Action": \_\_\_\_\_(initials)

Reason: \_\_\_\_\_

Site 12 (Sludge Drying Beds) - Unit 3 (Drainage Ditch):

Agree for "Removal Action": \_\_\_\_\_(initials)

Disagree for "Removal Action": \_\_\_\_\_(initials)

Reason: \_\_\_\_\_

Site 15 (Suspended Fuel Tanks) - Unit 1 (Suspended Fuel Tanks):

Agree for "Removal Action": \_\_\_\_\_(initials)

Disagree for "Removal Action": \_\_\_\_\_(initials)

Reason: \_\_\_\_\_

Site 19 Aircraft Expeditionary Refueling (ACER) - Unit 1 (Suspended Fuel Tanks):

Agree for "Removal Action": \_\_\_\_\_(initials)

Disagree for "Removal Action": \_\_\_\_\_(initials)

Reason: \_\_\_\_\_

\_\_\_\_\_  
Name

\_\_\_\_\_  
Title

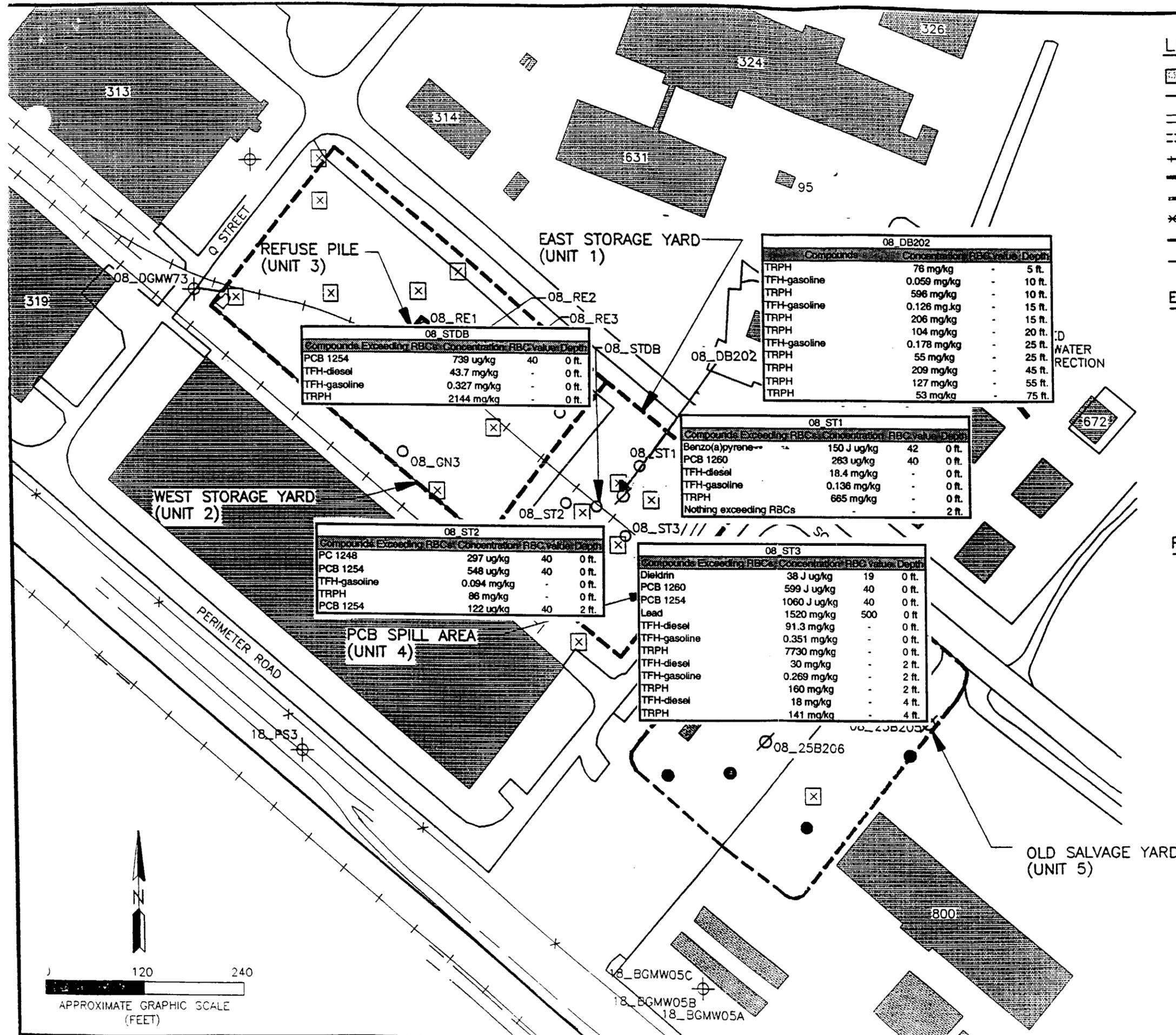
\_\_\_\_\_  
Affiliation

\_\_\_\_\_  
Date

## Site 8 - Defense Reutilization and Marketing Office Storage Yard

### Unit 1 - East Storage Yard

- **UNIT DESCRIPTION** - A roughly square, flat, unpaved but gravel-covered area. The unit is enclosed by fencing on the north, east, and south sides, but is open to the west (the adjacent Unit 2). This unit remains active.
- **UNIT SIZE** - 59,000 ft<sup>2</sup>
- **ACTIVITIES THAT LED TO UNIT DESIGNATION** - This area has historically been used for storage and sale of containerized liquids, scrap metal, and salvage materials/equipment. Drummed liquids such as lubricating oils, fuels, and solvents may leaked or been spilled at this site, impacting soil. PCB oil has also spilled and leaked.
- **PRELIMINARY RISK VALUE** - Cumulative Cancer Risk  $5 \times 10^{-5}$   
Non-Cancer Hazard Index 3  
Ecological Risk not yet available
- **RECOMMENDED ACTION** - Removal Action. Existing information sufficient to designate this unit for a removal action. Note: Conduct removal action at this unit in conjunction with similar removal action for Unit 4.
- **CONSTITUENTS OF POTENTIAL CONCERN** - PCBs Arochlor 1248, 1254, and 1260 (PCBs in all four sampling locations in the unit), benzo(a)pyrene (08\_ST1 @ 0 feet), dieldren (08\_ST3 @ 0 feet), and lead (08\_ST3 @ 0 feet) exceeded RBCs in shallow soil samples from this unit. TRPH concentrations in soil ranged from <20 to 7,730 mg/kg (08\_ST3 @ 0 feet). TFH-diesel and TFH-gasoline concentrations were very low. The soil gas survey results indicated that: TCE was identified at concentrations ranging from <1.0 µg/l to 11.4 µg/l; PCE was identified at concentrations ranging from <1.0 µg/l to 1.2 µg/l; 1,1-DCE was identified at concentrations ranging from 8.1 µg/l and 15.2 µg/l; and carbon tetrachloride was identified at concentrations ranging <1.0 µg/l and 4.7 µg/l. No other VOCs or fuel compounds were detected in the soil gas survey in this unit.
- **SAMPLE TYPES, NUMBERS, AND DEPTHS** - From four locations ten shallow soil samples were collected at depths ranging from 0 to 10 feet bgs. One boring was drilled and soil samples were collected at 5, 10, 15, 20, 25, 45, 55, and 75 feet bgs. Six locations were sampled in the area of this unit during the soil gas survey. Samples were collected from 12 to 20 feet bgs.
- **DEPTH OF CONTAMINATION** - Based on the existing sample data, contamination throughout most of the site appears to be found largely in the upper two feet of soil, but may extend to approximately four feet at some locations. Although TRPH was identified at very low concentrations in deeper subsurface soils (25 to 75 feet bgs) TFH-diesel and gasoline were not detected. Groundwater samples collected from wells constructed in and around Site 8 did not indicate the presence of fuel compounds.
- **POSSIBLE REMEDIAL ALTERNATIVES** - Excavation/thermal desorption, excavation/bio-remediation, or excavation/solvent extraction for PAHs, pesticides, and petroleum hydrocarbons in soil. Metals could be handled by excavation/soil washing, excavation/solidification or stabilization, and capping (ie. asphalt pavement) with a possible deed restriction.



**LEGEND:**

- BUILDING OR PAD
- STREAMS OR WASH
- IMPROVED ROADS
- UNIMPROVED ROADS
- RAILROAD
- PHASE I STRATUM BOUNDARY
- PHASE II UNIT MODIFICATIONS
- FENCE
- BASE BOUNDARY
- ELEVATION CONTOURS (FEET MSL-2 FOOT INTERVAL)

**EXISTING:**

- SOIL GAS SURVEY POINT (RESULTS ON SOIL GAS SURVEY T.M.)
- PHASE I MONITORING WELL (RESULTS ON TABLES B8-3 AND B8-6 IN PHASE I T.M.)
- PHASE I DEEP ANGLE BORING (RESULTS ON TABLE B8-3 IN PHASE I T.M.)
- PHASE I SURFACE AND NEAR SURFACE SOIL SAMPLE (RESULTS ON TABLE B8-2 IN PHASE I T.M.)
- RFA BORING
- PHASE I SURFACE WATER AND SEDIMENT SAMPLE
- PHASE I SEDIMENT SAMPLE

**PROPOSED:**

- PHASE II SOIL GAS, SURFACE AND SHALLOW SOIL BORINGS
- PHASE II MONITORING WELL
- PHASE II DEEP ANGLE BORING
- PHASE II SURFACE AND NEAR SURFACE SOIL SAMPLE
- PHASE II SURFACE WATER AND SEDIMENT SAMPLE
- PHASE II SEDIMENT SAMPLE
- PHASE II CPT
- PHASE II PERIMETER PROBE

08 STDB

Compounds Exceeding RBCs	Concentration	RBC Value	Depth
PCB 1254	739 ug/kg	40	0 ft.
TFH-diesel	43.7 mg/kg	-	0 ft.
TFH-gasoline	0.327 mg/kg	-	0 ft.
TRPH	2144 mg/kg	-	0 ft.

08 DB202

Compounds Exceeding RBCs	Concentration	RBC Value	Depth
TRPH	78 mg/kg	-	5 ft.
TFH-gasoline	0.059 mg/kg	-	10 ft.
TRPH	598 mg/kg	-	10 ft.
TFH-gasoline	0.128 mg/kg	-	15 ft.
TRPH	206 mg/kg	-	15 ft.
TRPH	104 mg/kg	-	20 ft.
TFH-gasoline	0.178 mg/kg	-	25 ft.
TRPH	55 mg/kg	-	25 ft.
TRPH	209 mg/kg	-	45 ft.
TRPH	127 mg/kg	-	55 ft.
TRPH	53 mg/kg	-	75 ft.

08 ST1

Compounds Exceeding RBCs	Concentration	RBC Value	Depth
Benzo(a)pyrene	150 J ug/kg	42	0 ft.
PCB 1260	283 ug/kg	40	0 ft.
TFH-diesel	18.4 mg/kg	-	0 ft.
TFH-gasoline	0.136 mg/kg	-	0 ft.
TRPH	665 mg/kg	-	0 ft.
Nothing exceeding RBCs	-	-	2 ft.

08 ST2

Compounds Exceeding RBCs	Concentration	RBC Value	Depth
PC 1248	297 ug/kg	40	0 ft.
PCB 1254	548 ug/kg	40	0 ft.
TFH-gasoline	0.094 mg/kg	-	0 ft.
TRPH	86 mg/kg	-	0 ft.
PCB 1254	122 ug/kg	40	2 ft.

08 ST3

Compounds Exceeding RBCs	Concentration	RBC Value	Depth
Dieldrin	38 J ug/kg	19	0 ft.
PCB 1260	599 J ug/kg	40	0 ft.
PCB 1254	1060 J ug/kg	40	0 ft.
Lead	1520 mg/kg	500	0 ft.
TFH-diesel	91.3 mg/kg	-	0 ft.
TFH-gasoline	0.351 mg/kg	-	0 ft.
TRPH	7730 mg/kg	-	0 ft.
TFH-diesel	30 mg/kg	-	2 ft.
TFH-gasoline	0.269 mg/kg	-	2 ft.
TRPH	160 mg/kg	-	2 ft.
TFH-diesel	18 mg/kg	-	4 ft.
TRPH	141 mg/kg	-	4 ft.

**Field Sampling Plan Attachment H**  
**Map H3-2**  
**Site Plan**  
**Site 8 - DRMO Storage Yard**

MCAS El Toro, California

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CLEAN II Program

Date: 03/15/95  
 File No. Site-8  
 Job No. 22214-059

## Site 19 - ACER Site

### Unit 1 - Northeast Stained Area

- **UNIT DESCRIPTION** - Unit 1 consists of the area that contained two fuel bladder revetments adjacent to Aqua Chinon Channel 500 feet north of Building 371.
- **UNIT SIZE** - 31,000 ft<sup>2</sup>
- **ACTIVITIES THAT LED TO UNIT DESIGNATION** - Previous reports have recorded minor spills and leaks in the area of the two fuel bladders. Revetments and stained are well defined on historic aerial photographs.
- **PRELIMINARY RISK VALUE** -  $4 \times 10^{-5}$   
Non-Cancer Hazard Index <1  
Ecological risk not yet available
- **RECOMMENDED ACTION** - Recommend Removal Action.
- **CONSTITUENTS OF POTENTIAL CONCERN (SOIL)** - Benzo(a)pyrene (19\_1FB1 and 19\_1FB2 @ 0 and 2 feet, and 19\_1FB3 @ 0 feet), benzo(a)anthracene (19\_1FB1 and 19\_1FB2 @ 2 feet, and 19\_1FB2 and 19\_1FB3 @ 0 feet), benzo(b)fluoranthene (19\_1FB1 and 19\_1FB2 @ 2 feet, and 19\_1FB2 and 19\_1FB3 @ 0 feet), benzo(k)fluoranthene (19\_1FB1 and 19\_1FB2 @ 0 and 2 feet), dibenzo(a,h)anthracene (19\_1FB2 @ 0, and 19\_1FB1 and 19\_1FB2 @ 2 feet), and indeno(1,2,3-cd)pyrene (19\_1FB2 @ 0 and 2 feet and 19\_1FB3 @ 0 feet) exceeded RBCs in shallow soil in this unit. Low levels of VOCs were also detected. TFH-diesel ranged from <12.5 to 162 mg/kg (19\_1FB1 @ 2 feet), TFH-gasoline ranged from <0.052 to 0.488 mg/kg (19\_1FB1 @ 2 feet), and TRPH ranged from <20 to 230 mg/kg (19\_1FB1 @ 2 feet).
- **SAMPLE TYPES, NUMBERS, AND DEPTHS (SOIL)** - From four locations seven shallow soil were collected at depths of 0 and 2 feet bgs. One boring was drilled and sampled at 5, 10, 15, 20, and 25 feet bgs.
- **DEPTH OF CONTAMINATION** - Existing sample data suggests that contamination is primarily surficial but may be present in shallow soils to a depth of 2 feet. Deeper subsurface soils do not appear to be impacted at this unit.
- **POSSIBLE REMEDIAL ALTERNATIVES** - Excavation/thermal desorption, excavation/solvent extraction, and excavation/solidification or stabilization