



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 9  
1235 MISSION STREET  
SAN FRANCISCO, CA 94103

OCT 22 1990

MEMORANDUM

SUBJECT: Review of Draft RI/FS Work Plan for El Toro MCAS

FROM: Herbert Levine, Hydrogeologist H-8-4 *Herbert Levine*

TO: John Hamill, Remedial Project Manager H-7-5

Per your October 9, 1990 request I have reviewed the draft work plan for El Toro MCAS. I have several comments that will, in my opinion, improve the quality of the work plan and assure that the investigation gathers necessary information. In general all acronyms should be spelled out when first used. The following comments relate to specific sections of the work plan.

2.2.4 RI/FS Investigation Boundary

The investigation boundary should be indicated on a map that includes off-site plume and wells.

2.2.5 Monitoring Well Inventory

What do the well designations relate to?, ie; PS, DW, RW and CN

2.3.3 Geology

Provide geologic cross-sections.

2.3.4 Hydrogeology

Provide hydrogeologic cross-sections, include all geologic and hydrologic information.

Show forebay area and pressure area on a map.

Statement "... geologic materials are relatively coarser than in the central portion of the basin, and groundwater lies under mainly unconfined conditions." is unsubstantiated. Provide at minimum cross-sections and refernces.

Show groundwater flow direction on a map.

### 2.3.5 Groundwater Chemistry

Show contaminant and facies information on a map.

How is deeper zone being threatened by VOC's ?

### 2.4 Proposed Sites

Need to overlay sites on area wide map showing direction of groundwater flow.

Need to justify location for each sample (soil and groundwater) and describe what data will be obtained and how it will be used.

#### 2.4.18 Site 18 - Regional VOC Investigation

Map out plume location and contaminant levels (add to Figure 21).

Show 3 separate areas on a map.

Put all information in Table 1 in cross-sections and on map.

### 4.5 Data management Plan

All data, geologic and analytical, should be presented in electronic format compatible with the GEOBASE software (a geologic, hydrologic, geochemical relational database/graphics package designated by EPA Region IX).

#### 5.3.1 Offstation Groundwater Operable Unit

Describe as deliverables what type of tables and figures are to be supplied with each objective.

##### 5.3.1.1 Groundwater Investigation Unit

Provide rationale for proposed monitoring well network. This should include corss-sections showing screened interval for each additional well.