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Ser 1813BD/00710
May 29, 1991

Ms. Eileen Hughes
California Department of Health Services
700 Heinz Avenue, Bldg. F
Berkeley, California 94710

Subj: PROPOSED REVISIONS TO THE SAMPLING PLAN FOR SITE
4/BUILDING 360 PHASES 2B AND 3 OF THE RI/FS ALAMEDA

Dear Ms. Hughes:

This letter presents our proposed revisions to the sampling plan for Site 4/Building 360 in Phases 2B and 3 of the Remedial Investigation/Feasibility Study currently underway at Naval Air Station, Alameda. The original scope of work must be modified because the schedule for removing plating equipment presently in the building has been delayed until late summer.

Original Scope of Work. The original scope of work provided for the collection of 30 subsurface soil samples from immediately underneath the floor and/or underneath existing wet trenches in the plating shop. These locations were based on an evenly spaced grid. Also included in the original scope was the installation of nine boreholes around the perimeter of the building. Four of these nine boreholes were converted to monitoring wells. One monitoring well was installed immediately southwest of the plating shop area although the groundwater gradient is not known. Canonic Environmental performed the borehole drilling and well installation around the perimeter of the building in Phase 2A of the RI/FS.

Proposed Revised Scope of Work. The revised sampling plan provides for the collection of subsurface soil and groundwater samples, and wipe samples from the building floor. The number of subsurface soil samples will be reduced to 20, located as shown on Figure 1.

1. Ten of these boreholes will be located in the floor of existing wet trenches as originally proposed. These sampling locations are tentative and depend upon the Navy's schedule for removal of several of the plating baths that are currently above the wet trenches. Should the Navy's schedule dictate relocation of these boreholes, they will be located immediately adjacent to the existing wet trenches as shown by the alternate locations on Figure 1.

Where the subsurface soil samples (shallow boreholes) are located within the wet trenches, a soil sample will be collected from immediately below the brick floor. Should the boreholes require relocation to between the trenches, a soil sample will be collected from each borehole at a depth equivalent to, or slightly below, the bottom of the wet trenches. These soil samples will be collected with a stainless steel sampling device and placed in laboratory-prepared glass jars.

The remaining ten boreholes will be located adjacent to the existing wet trenches. These boreholes will be drilled to 1 to 2 feet below the water table. Based on previous work in the Building 360 area, we anticipated the depth to the water table will be approximately 5 feet below

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he bottom of the trenches, or 8 to 9 feet below the acid resistant brick flooring. A soil sample will be collected from each borehole at a depth equivalent to, or slightly below, the bottom of the wet trenches. Upon the completion of drilling, a groundwater sample will be collected from these ten boreholes using a stainless steel bailer. Groundwater samples submitted for metals analyses will be filtered and acidified to a pH less than 2.

In addition to the soil samples, two wipe samples will be collected from floor areas with indications of spills (discoloration, staining, eroded grout, etc). The samples will be collected by scraping an approximately 1 foot square area with a stainless steel implement and placing the material removed from the floor in a laboratory-prepared container.

All twenty soil samples will be analyzed for the chemical constituents listed in the work plan plus pH. The ten groundwater samples will be analyzed for the constituents listed in the work plan. The two scrape samples will be analyzed for metals, total cyanide, and hexavalent chromium. A total of eleven soil samples (ten plus one duplicate) and a total of twelve groundwater samples (ten samples, one duplicate, one rinsate) will be analyzed for hexavalent chromium. This additional analysis has been proposed to evaluate the mobility of chromium and for use in the risk assessment.

Rationale for Proposed Revisions. The original sampling plan would have not allowed a determination of whether metals in soils are localized underneath the trenches or have migrated to surrounding soils. These proposed revisions will provide data indicative of soil quality both immediately underneath the wet trenches and in surrounding soils. Thus, the potential for migration of metals can be assessed. In addition, information on whether other potential sources (wastewater lines, piping, etc.) have contributed to soil contamination will be obtained.

The analysis of groundwater samples from immediately underneath the plating shop will provide an indication of whether metals, if present in soils, are migrating to the shallow groundwater underneath the building. This information, in conjunction with groundwater analytical results from existing wells, will indicate whether metals are impacting groundwater in the vicinity of the site.

The wipe (scrape) samples will provide data on the extent of residual contamination present on the plating shop floor. This information can be used to gauge the potential for future exposure when the plating shop area is converted to a storage area.

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Please call if you have questions or comments regarding these proposed revisions to the Building 360 sampling plan. Unless we receive verbal comments from you within a week on these proposed revisions, we will proceed with the revised sampling program as described herein.

Sincerely,

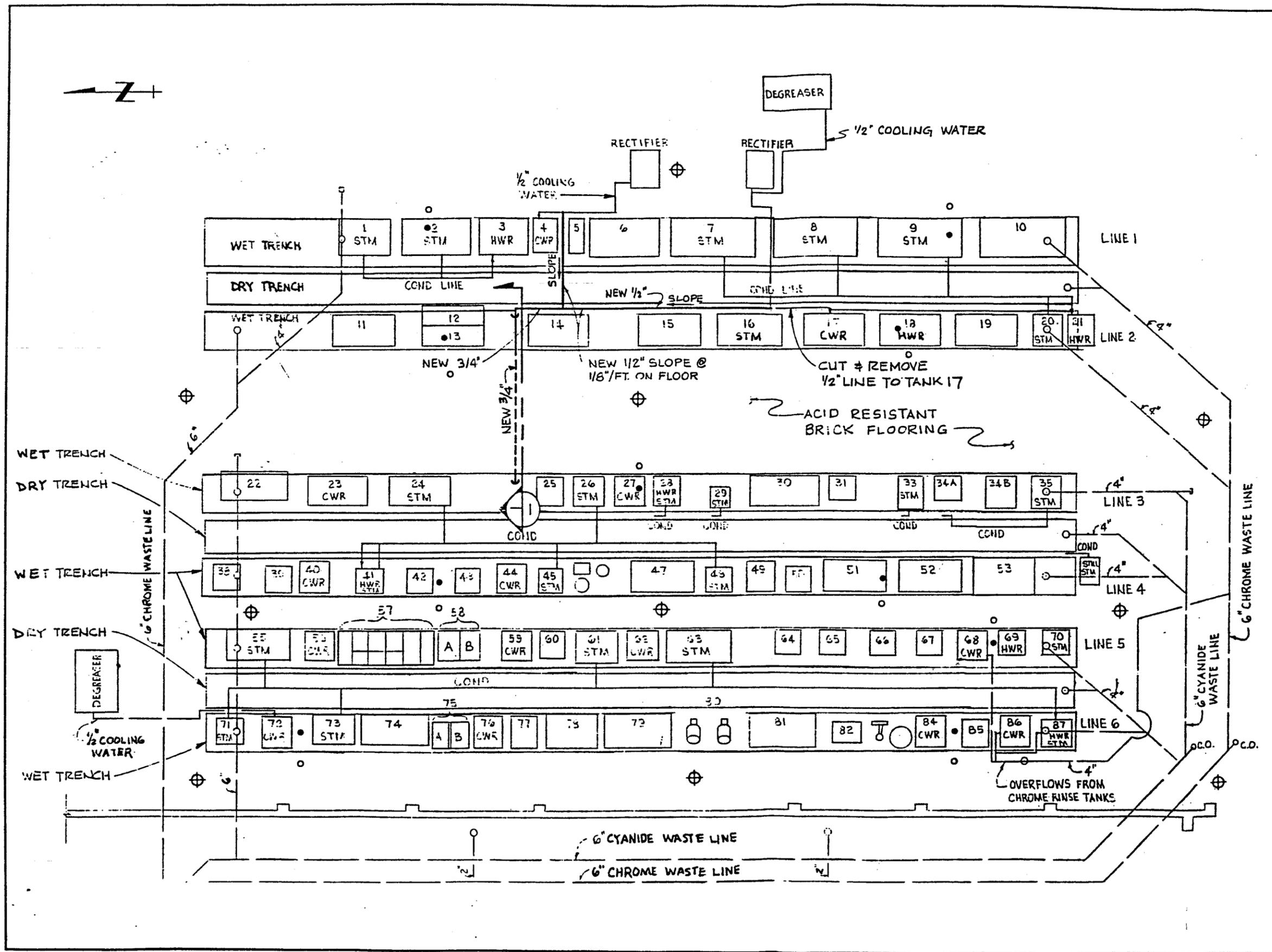
RICHARD SERAYDARIAN
Head, Installation Restoration Section

Encl:
(1) Proposed Sampling Locations
Site 4 - Building 360

Distribution:
Environmental Protection Agency, Region IX (Attn: Julie Anderson)
California Department of Health Services (Attn: Mark Malinowski)
California Regional Water Quality Control Board (Attn: Lester Feldman)
Bay Area Air Quality Management District (Attn: Scott Lutz/Brian Jennison)
U.S. Fish & Wildlife Services (Attn: Don Palawski)
California Department of Fish and Game (Attn: Mike Rugg)
National Oceanic & Atmospheric Administration (Attn: Chip Demarest)
U.S. Army Corps of Engineers (Attn: Sharon Morlund)
Bay Conservation and Development Commission (Attn: Chris Perry)

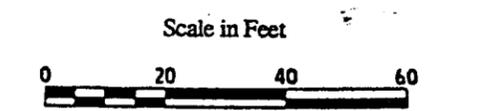
Copy to:
PRC Environmental Management, Inc. (Attn: Kirk Switzer)
James Montgomery Engineers (Attn: Steve Newton)
NAS Alameda (Attn: Randy Cate) ~~(w/3 copies of encl)~~

Blind copy to: 1813,^{ww}1813BD, 1813EG, Admin Record (w/encl)
Writer: Bella Dizon, 1813BD, x2564
Typist: M. Marshall, 29 May 91, Sampling Plan 4 Alameda
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- LEGEND**
- ⊕ Borehole with Groundwater Sample
 - Shallow Borehole Location
 - Alternate Shallow Borehole Location

Note: Sample locations are approximate and are dependent upon obtaining utility clearance.



Source: Metcalf & Eddy Engineers
NAVFAC Dwg. No. 6106077

James M. Montgomery
Consulting Engineers, Inc.

FIGURE 1
PROPOSED SAMPLING LOCATIONS
SITE 4 - BUILDING 360