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20 Jul 1994

From: Commander, Western Division, Naval Facilities Engineering Command
To: Distribution

Subj: CPT/HYDROPUNCH PROGRAM, REMEDIAL INVESTIGATION/FEASIBILITY
STUDY (RI/FS), PHASES 2B & 3, 5 & 6, NAVAL AIR STATION (NAS) ALAMEDA, CA

Encl: (1) CPT/HydroPunch Program, letter to Messrs Gary MuneKawa/George Kikugawa, from
PRC Environmental Management, Inc. dated 11 July 1994

1. Per your concurrence at the 15 July 1994 data review meeting held at NAS Alameda, the suggested changes in CPT/HydroPunch locations outlined in Enclosure (1) will be implemented for the ongoing Phases 2B/3 and 5/6 follow-on RI/FS field work.

2. If you have any additional questions regarding this action, please contact George Kikugawa, Code 09ER3GK at (415) 244-2559, FAX (415) 244-2553.

Original signed by:

GARY MUNEKAWA
By direction

Distribution:

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1073

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July 11, 1994

Mr. Gary Munekawa, 09ER3GM
Mr. George Kikugawa, 09ER3GK
Department of the Navy, Western Division
Naval Facilities Engineering Command
900 Commodore Drive, Building 101
San Bruno, CA 94066-2402

Subject: CPT/HydroPunch Program
Naval Air Station (NAS) Alameda, Alameda, California
CLEAN Contract No. N62474-88-D-5086, Contract Task Order No. 0280

Dear Messrs. Munekawa and Kikugawa:

Outlined below are suggested changes in the field effort currently being conducted at NAS Alameda under CTO No. 0280. These changes relate to eliminating and/or substituting future cone penetrometer test (CPT) and HydroPunch locations based on our review of recently obtained geotechnical data, as well as a review of the potential overlap of CPT/HydroPunch location coverage for adjacent IR sites that were covered under separate field sampling plans (FSPs).

BACKGROUND

Approximately 100 geotechnical studies have been conducted at the Alameda Naval Air Station and are presently on file at the WESTDIV office in San Bruno, CA. The geotechnical reports include boring logs which range in depth from 5 feet below ground surface (bgs) to 160 feet bgs. Upon request from the Navy, the boring logs from approximately 80 reports were evaluated as to whether the CPT/HydroPunch locations recommended in the Phases 2A, 2B/3 and 5/6 follow-on FSPs are still appropriate in lieu of the geotechnical data. A total of 102 CPT locations and 130 HydroPunch samples are presently proposed for the upcoming field effort.

The geotechnical boring logs were reviewed and several cross-sections were developed using these logs. Based on review of this data, it appears that geotechnical data and/or existing monitoring well data are sufficient to use in lieu of one CPT location at Site 13. Additionally, there are four CPT/HydroPunch locations which are located adjacent to either existing cluster well locations or CPT/HydroPunches which were already conducted during the first field effort in February of this year. Based on this information, the following CPT/HydroPunch locations are considered redundant.

RUNWAY AREA AND SITE 1

A total of three CPT and three HydroPunch locations are recommended for removal in the Runway Area and Site 1 (See Figure 3-1, Phases 5/6 Follow-On FSP; and Figure 11-1, Phases 2B/3 Follow-On FSP).

CPTRA-1 is located at Site 14, where three CPT/HydroPunches and one deep well have already been advanced. The proposed CPT/HydroPunch is located approximately midway between CPTS14-01 and CPTS14-02. It is suggested that existing data are sufficient enough to remove proposed CPTRA-1 and the proposed HydroPunch.

CPT-1-9 is located adjacent to existing well cluster M027-A/E/B/C, which is screened at four locations (two in the upper water bearing zone and two in the lower water bearing zone). The well was continuously logged, and extends to the top of the Yerba Buena mud, providing deep lithologic data. Also, the wells are screened at four different locations, which provide shallow groundwater quality as well as deep groundwater quality. It is suggested that existing data are sufficient enough to remove proposed CPT-1-9 and the proposed HydroPunch.

CPT-1-3 is located adjacent to existing well cluster M025A/E/C, which is screened at three locations (two in the upper water bearing zone and one in the lower water bearing zone). The well was continuously logged, and extends to the top of the Yerba Buena mud, which provides deep, lithologic data. It is suggested that existing data are sufficient enough to remove proposed CPT-1-3 and the proposed HydroPunch.

SITE 13

One CPT location is recommended for removal at Site 13 (Figure 7-1, Phase 2A Follow-On FSP).

CPT-S13-01 is located adjacent to geotechnical boring 1DK-HLA-1. The geotechnical boring extends to 50 feet (the maximum CPT depth) and identifies a homogenous, well-sorted sand from 10 feet bgs to the bottom of the boring. This coincides well with the conceptual model of outcropping Merritt sand in the southeast corner of the base. It is suggested that existing data are sufficient enough to remove proposed CPT-S13-01, but retain the HydroPunch groundwater sample. Additionally, numerous shallow CPT/SCAPS penetrations were advanced in this area (to 20 feet bgs) in March/April 1994, providing good subsurface control to that depth.

SITE 15

One CPT location and one HydroPunch location are recommended for removal at Site 15 (Figure 12-1, Phases 2B/3 Follow-On FSP; Figure 3-1, Phases 5/6 Follow-On FSP).

Three CPT/HydroPunch locations are scheduled for Site 15; however, one of the CPT/HydroPunch locations which is proposed for characterization of the lithology in the Runway Area is located adjacent to a Site 15 CPT/HydroPunch. It appears that the data to be provided by CPT-RA-6 will be sufficient to use in lieu of CPT-S15-02, therefore it is suggested that the CPT-15-02 location be removed from the field program.

Presently, the remaining CPT/HydroPunch field program is scheduled to start on or about July 20, 1994, and to be completed by mid-August, 1994.

Please review and comment on these suggested changes to the field program, as we would like to discuss this changes with the BCT at our next scheduled meeting at NAS Alameda on Friday July 15, 1994. Please call with any questions or alternative suggestions.

Sincerely,
PRC Environmental Management, Inc.

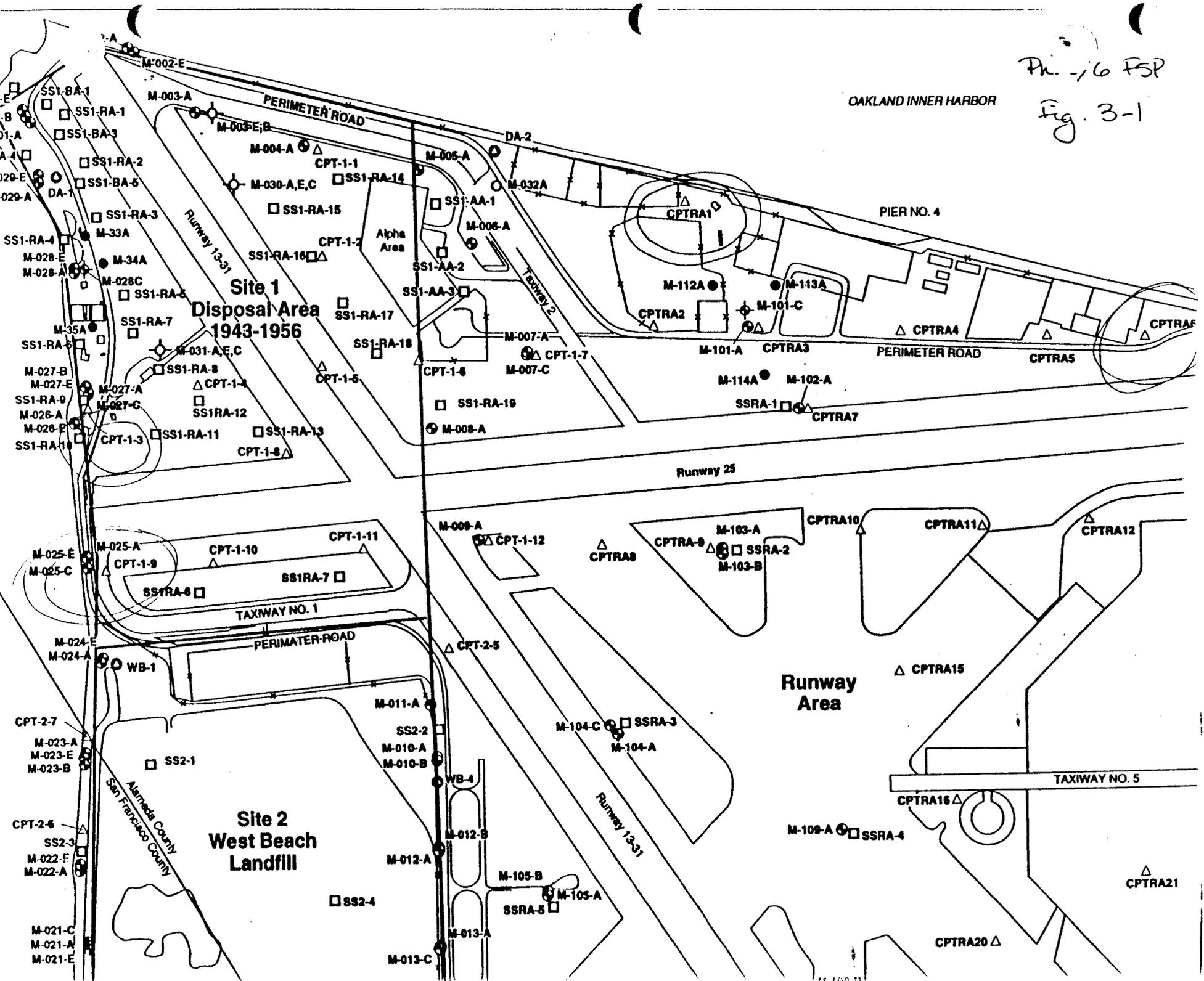


Duane C. Balch
Installation Coordinator

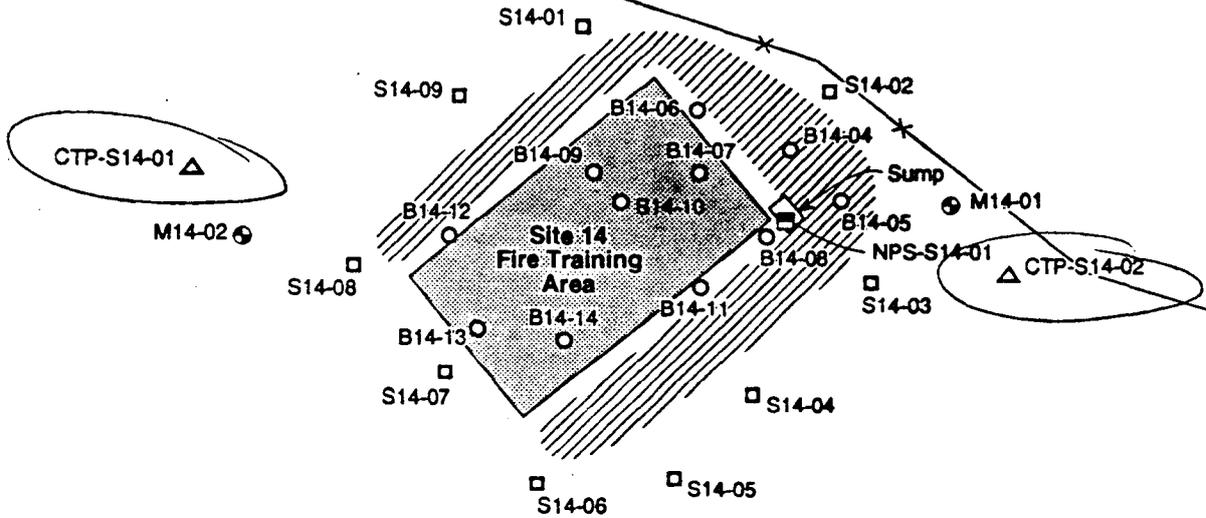
Attachments

cc: Tom Lanphar, Cal-EPA, DTSC, Berkeley
James Ricks Jr., U.S. EPA, San Francisco
Lt. Mike Petouhoff, NAS Alameda
James Nusrala, Cal-EPA, RWQCB, Oakland
Ken Leung, Montgomery Watson

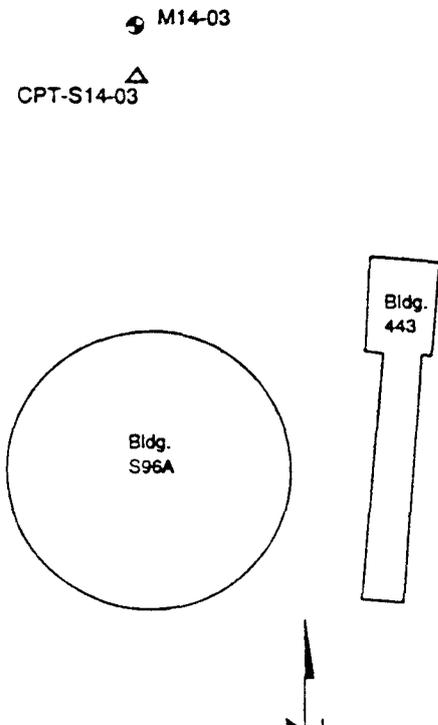
Ph. -16 FSP
Fig. 3-1



OAKLAND INNER HARBOR



Ph. 28/3 FSP

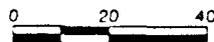


LEGEND:

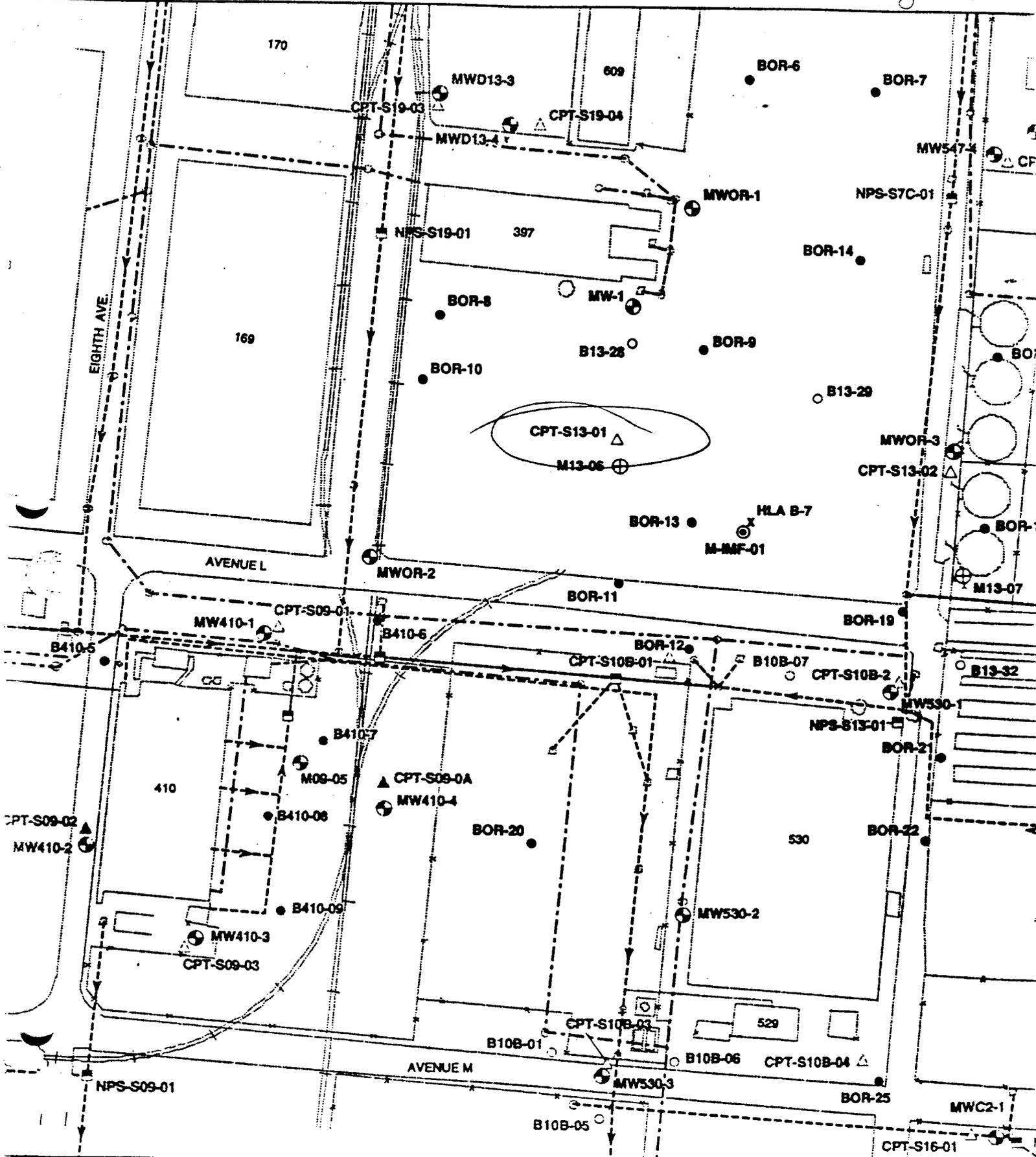
- ⊕ Monitoring Well Location
- Proposed Soil Boring
- Proposed Surface Soil Sample Location
- Proposed Utility Sample
- △ Proposed CPT Hydropunch Location
- ▨ Fire Training Area Containment Berm
- ▩ Concrete Slab
- ▭ Bldg. 443 Structure
- x- Fence

NAVAL AIR STATION ALAMEDA
ALAMEDA, CALIFORNIA
SITE 14
PROPOSED SAMPLE LOCATIONS

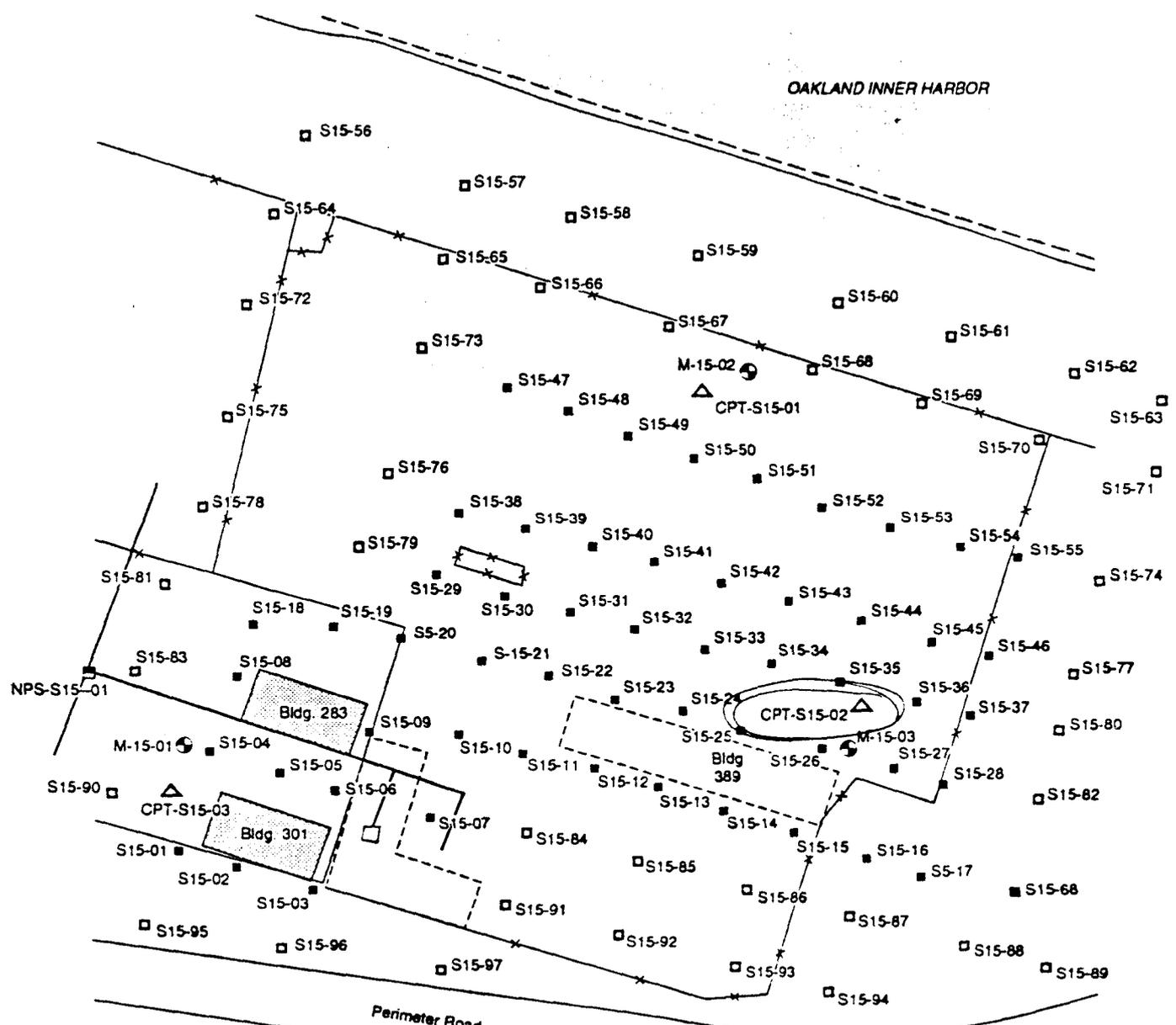
Notes:
1) JMM Soil boring locations surveyed by Nolte & Associates, Walnut Creek, California in October, 1991 relative to California Coordinate System, Zone 3, NAD 27



Ph. 2A FSP Fig. 7-1



OAKLAND INNER HARBOR



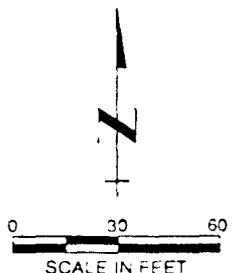
LEGEND:

- ⊕ Monitoring Well Location
- Surface Soil Sample Location
- Proposed Surface Soil Sample Location
- ▣ Proposed Utility Sample
- △ Proposed CPT/Hydropunch Location
- ⊞ Catch Basin
- Storm Sewer Line
- ▭ Structure
- - - Former Structure
- x- Fence

Ph. 2B/3 FSP

Notes:

- 1) Soil boring locations surveyed by Nolte & Associates, Walnut Creek, California in October, 1991 relative to California Coordinate System, Zone 3, NAD 27.
- 2) Base map CAD File provided by NAS Alameda.



NAVAL AIR STATION ALAMEDA
 ALAMEDA, CALIFORNIA
SITE 15
PROPOSED SAMPLE LOCATIONS
 FIGURE 12-1