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HUNTERS POINT
SSIC NO. 5090.3

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Ser 1146/HP/EPA/Resp.
24 FEB 1988

U.S. Environmental Protection Agency
Region IX
Attn: Mr. Ken Kitchingham
[illegible] Street
[illegible]

Subj: QA/QC FOR REMEDIAL INVESTIGATION FEASIBILITY STUDY FOR NAVAL STATION, TREASURE ISLAND, HUNTERS POINT ANNEX

This letter briefly outlines the Quality Assurance/Quality Control (QA/QC) requirements proposed for the analytical program for the Remedial Investigation/Feasibility Study (RI/FS) at Naval Station, Treasure Island, Hunters Point Annex (HPA). This program was discussed in a teleconference on January 29, 1988 between Ken Kitchingham of your office, Richard Seraydarian and Gregory Brown of our office, and Steve Farley and John Catts our consultants from Harding Lawson Associates. The purpose of the teleconference was to provide the U.S. Environmental Protection Agency (EPA) with an opportunity to comment on data validation for the RI/FS at HPA. Our understanding is that the Department of Health Services (DHS) has deferred to the EPA regarding the QA/QC requirements for the HPA program.

The Navy's proposed QA/QC program was discussed during the above mentioned telephone conference including a program to perform field and laboratory QC checks. These QC checks represent the control samples introduced into the sample analysis stream that are used to evaluate the accuracy and precision of the chemical analysis program. All analyses will be performed according to acceptable EPA, or equivalent, test methods. The Navy believes that the QA/QC program as proposed will provide the necessary QC for establishing the validity of the data for the RI/FS process. In addition to the QC requirements proposed by the Navy, Mr. Kitchingham of your office requested that 1) Contract Lab Program (CLP) deliverable packages be requested for a number of samples and 2) a percentage of the soil samples be collected and analyzed in duplicate. To comply with this EPA request, the Navy has modified its proposed QA/QC program to include the CLP-deliverables on a selected number of samples. The modified program is summarized in enclosure (1).

We believe that the information in enclosure (1) will assist the EPA in their evaluation of the Navy QA/QC program for HPA. It is our intention to cooperate with the EPA in formalizing this QA/QC program in the near future, therefore, please provide your written comments on our proposed program by March 4, 1988. The point of contact is Commander, Western Division, Naval Facilities Engineering Command (Attn: Mr. Alex E. Dong, Code 1146, (415) 877-7604).

Sincerely,

P. W. DRENNON
CAPTAIN, CEC, USN
COMMANDER

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Subj: QA[illegible] REMEDIAL INVESTIGATION FEASIBILITY STUDIES FOR NAVAL STATION, TREASURE ISLAND, HUNTERS POINT ANNEX

Encl:
(1) Hunters Point Annex [illegible]

Copy to:
Department of Health Services (Attn: Chen Kao)
Regional Water Quality Control Board (Attn: Lester Feldman)

Blind copy to:
NAVSTA Treasure Island
COMNAVBASE San Francisco
OIC NAVSTA Treasure Island Hunters Point Annex
Harding and Lawson Associates
U.S. Environmental Protection Agency (Attn: N. Morgan)
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WRITER: R. Seraydarian/1146RS/7504
TYPIST: B. Palmer/22 Feb 88/Ser 3299h
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FILE ROUTING SHEET - WESTDIV 5216/1 (REV. 6/85)

Hunters Point Annex QA/QC Program For Remedial Investigation

Laboratory Deliverables

- Copies of signed chain-of-custody forms
- Documentation for each sample and analysis indicating date and time of receipt and analysis
- Actual detection limit for each sample
- Dilution/concentration factors
- Results of internal QC analyses, including blanks, duplicates, matrix spikes, and surrogates
- Identification and semi-qualification of ten highest non-target peaks for each class of organic compound. Provide number of non-target peaks
- In addition, the laboratories have been requested to maintain documentation necessary for data validation (CLP-type deliverables) should that become necessary at a later date.

Internal Laboratory QC Requirements

- 10 percent blanks
- 10 percent duplicates
- 10 percent matrix spikes
- Surrogate spikes for all volatile organic analyses (surrogates compounds per CLP)

External QC Requirements

- Blanks - 10 percent trip blanks (water samples only, volatiles only), 5 percent equipment blanks (priority only), and 5 percent field blanks or a minimum of one per week (water sample only, priority pollutants only, poured in the field at the time of sample collection)
- Duplicates - 10 percent duplicates (water samples for priority pollutants)
- Spikes (water samples only) - 10 percent spikes. Spikes will be prepared by the QC laboratory by spiking an aliquot of organic-free water with selected analytes of interest

approx 200 samples

Analyses for which CLP-type deliverable will be requested

- For the soil and ground-water samples collected during the reconnaissance phase of the RI. 25 to 50 percent of the total number of samples will be reported with a complete CLP-type deliverable package. It is expected that the reconnaissance phase will last 3 to 4 weeks. These analyses are expected to cover the range of analytes to be analyzed in the RI.

- Samples collected to confirm that remediation is completed will also be reported with a complete CLP-type deliverables package.