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Subj: REMEDIAL INVESTIGATION/FEASIBILITY STUDY FOR NAVAL STATION
TREASURE ISLAND, SAN FRANCISCO

Encl: (1) Ecological Assessment Scoping Meeting Minutes - 17 August 1993

1. Enclosure (1) is provided for your information.
2. Thank you for your guidance and involvement in this project. For further information, please contact Mr. Ernesto M. Galang, Code T4E2EG, at (415) 244-2560.

Original signed by:

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**INSTALLATION RESTORATION PROGRAM
ECOLOGICAL ASSESSMENT SCOPING MEETING
NAVAL STATION TREASURE ISLAND**

August 17, 1993

Introduction

On August 17, 1993, at 1:00 p.m. representatives from California Environmental Protection Agency's Department of Toxic Substances Control (DTSC), San Francisco Regional Water Quality Control Board (SFRWQCB), Western Division Navy (Navy), and PRC Environmental Management, Inc. (PRC) met at Naval Station Treasure Island (NAVSTA TI), California, to attend an ecological assessment scoping meeting for the remedial investigation/feasibility study (RI/FS) being conducted at NAVSTA TI. A copy of the agenda for the meeting and attendees list are provided as Attachments 1 and 2.

Background

PRC, as the Navy's contractor, has been conducting a qualitative, screening-level, ecological assessment for NAVSTA TI based on the ecological assessment (EA) work plan dated August 1992. PRC prepared a draft EA work plan dated March 1, 1993 which was submitted by Navy to DTSC and SFRWQCB for regulatory review. Navy received comments on the draft EA work plan which were addressed in the Draft Final EA work plan dated September 10, 1992 which was submitted by Navy to DTSC and SFRWQCB. Navy, DTSC, and SFRWQCB agreed to conduct a scoping meeting to address the results of the qualitative EA (QEA) and discuss the need and scope for future field work.

Agenda Topics

- I. Ms. Emily Pimentel, PRC, presented a brief update and overview of the EA with an emphasis on the types of additional field studies recommended. Ms. Pimentel discussed the sequence of steps taken to conduct the QEA. The steps discussed consisted of the following:
 - Review of the literature to describe the habitats and species within the context of NAVSTA TI and their relationship to the region.
 - Identification of measurement endpoints that could be used to predict potential effects to receptors of concern and be related to assessment endpoints.
 - Identification of habitats within the Installation Restoration (IR) sites being investigated, and the receptors of potential concern.
 - Assembly of a list of contaminants of concern based on contaminants detected during the

field investigations of soil, groundwater, sediment, and storm water.

- Assembly of regulatory criteria and screening values, and toxicity data for the contaminants of concern.
- Evaluation of IR sites with complete exposure and toxicity pathways.
- Identification of IR sites of concern based on determination of complete pathways and exceedance of regulatory criteria or screening values.

For the concerns related to terrestrial IR sites, Ms. Pimentel reported that sites without viable habitat, such as sites consisting primarily of paved areas or buildings, were not considered further due to incomplete pathways. These IR sites consisted of sites 3, 5, 6, 7, 9, 10, 14, 15, 17, 20, 21, 22, 24, and 25. The Treasure Island IR sites consisting of viable habitat supporting birds and having contaminants of potential concern consisted of sites 1, 4/19, and 12. The Yerba Buena Island sites having viable habitat supporting birds and mammals and having contaminants of potential concern consisted of sites 8, 16, and 11.

Concerns related to sediments and surface water were addressed under IR site 13. This site represents 10 storm water outfalls and 15 sediment sample locations. The sediments were considered a complete pathway. Seven of the storm water outfalls were sampled, and all storm water outfalls and the sediment locations had contaminants of potential concern. Sediments around NAVSTA TI are anticipated to support benthic fish and invertebrates such as amphipods, polychaete worms, and shellfish.

Groundwater was evaluated for its potential impact to surface water in the Bay since groundwater is under tidal influence, and is therefore a source of discharge to surface water. As a benchmark to determine potential concern, contaminants in groundwater were compared to the Federal Ambient Water Quality Criteria with consideration that attenuation is anticipated prior to actual discharge to surface water. Presently, the attenuation factor being considered is 10 to 100. Even with attenuation, there is a potential concern regarding the impact of contaminants in groundwater. Consequently, the impact to surface water potentially occurs through discharge of both storm water and groundwater. These concerns are still under review.

The QEA recommended that additional field studies be conducted as follows:

- Define the extent of sediment contamination, and conduct bioassays at select sites to determine potential effects.
- Conduct bioassays such as earthworm and root-elongation tests on soil media at terrestrial sites of potential concern.
- Conduct groundwater monitoring to evaluate the fluctuation in contaminant types and concentration levels.

- II. The Navy and PRC acknowledged receipt from Ms. Barbara Smith, SFRWQCB of the faxed copy of the draft memorandum entitled "Protocols for site walk requirement for ecological assessments." Ms. Pimentel had received a copy of the protocols several months before and had already used the guidance in preparation of the QEA.
- III. Discussion of the potential effects regarding NAVSTA TI Base Closure status were limited since the meeting participants did not have any confirmed information to exchange. However, there was mention that future land use scenarios, such as development of parks associated with residential development, be considered in the EA.
- IV. The literature available to conduct the QEA for NAVSTA TI was considered of sufficient detail to describe the habitats and identify receptors of concern in terrestrial habitats and surface water. Consequently, it was recommended to conduct a site walk to confirm the findings addressing habitats and receptors reported in the QEA, and to inventory marine plants and invertebrates in nearshore areas of NAVSTA TI. This recommendation was agreed upon by Ms. Smith; Ms. Smith represented the SFRWQCB for issues of ecological concern at NAVSTA TI.

AGENDA

TREASURE ISLAND NAVAL STATION

ECOLOGICAL ASSESSMENT SCOPING MEETING

TUESDAY, AUGUST 17, 1993

- I. PRC presents a brief update on the Ecological Assessment (EA) including soil/sediment data used to focus potential additional testing**
- II. Discussion about "Site Walk Protocols" submitted, by fax, to Navy and PRC**
- III. Discussion about how Base Closure status may affect the EA**
- IV. Schedule the Site Walk**
 - a. Who needs to be notified?**
 - b. Who needs to attend?**

17 AUGUST 93

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ECOLOGICAL ASSESSMENT SCOPING MTC.

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