



Tetra Tech EM Inc.

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July 7, 1999

To Distribution List

Subject: Draft Follow-up Action Items from the May 11, 1999 Conference Call with the Regulatory Agencies to Address Ecological Concerns for Investigation Area A2 Mare Island, Vallejo, California
CLEAN II Contract No. N62474-94-D-7609, CTO 197
CLEAN II Contract No. N62474-94-D-7609, CTO 138

Please find enclosed seven copies of the "Draft Follow-up Action Items from the May 11, 1999 Conference Call with the Regulatory Agencies to Address Ecological Concerns for Investigation Area A2, Mare Island, Vallejo, California," dated July 7, 1999 for your review.

During the May 11th meeting, the agencies requested that the Navy address ecological concerns for Investigation Area A2 by providing the following information and materials:

- Enclosure 1:** Meeting Minutes of the May 11, 1999 Conference Call on the Onshore Ecological Risk Assessment, Investigation Area A2
- Enclosure 2:** Table of the Data Quality Objectives to Address Ecological Concerns at Investigation Area A2
- Enclosure 3:** Additional statistical summaries and data analysis performed for Investigation Area A2 including: a comparison of beryllium and selenium concentrations in the intertidal wetland sediments between the 0 to 0.5 and 1 to 1.5 depths intervals using the Wilcoxon Rank Sum test, distributions of total petroleum hydrocarbon (TPH) fractions by depth intervals in the intertidal wetland sediments and upland soils, and the distribution of total polychlorinated biphenyls (PCB) concentrations in the intertidal wetland sediments by depth intervals
- Enclosure 4:** Figures illustrating the spatial distribution of chemicals of potential ecological concern (COPEC) in Investigation Area A2
- Enclosure 5:** Tables presenting point hazard quotients (HQ) specifically HQ₂, HQ₃, HQ₄, and HQ₅ along with figures showing point HQ₂ values for Investigation Area A2
- Enclosure 6:** Evaluation of Transport Pathways and Ecological Risk for Total Petroleum Hydrocarbons in Investigation Area A2

As discussed in Enclosure 3, the additional statistical summaries showed that beryllium and selenium concentrations in the intertidal wetland sediments were statistically different for the depth intervals from 0 to 0.5 and 1 to 1.5 feet below ground surface.

July 7, 1999

As presented in Enclosure 4, the COPEC distribution figures showed that few COPECs in the upland soil samples exceeded the Mare Island 95th percentile ambient fill values. For the wetland sediments, COPEC concentrations frequently exceeded effects range-low values, but few locations exceeded the effects range-median or wetland cover values.

As shown in Enclosure 5, point hazard quotients calculated for the gray fox, Northern harrier, and salt marsh harvest mouse did not identify any locations in Investigation Area A2 with immediate or significant risk from COPECs. Hazard quotients for total PCBs showed that detected concentrations in the wetland sediments present no ecological risk.

As discussed in Enclosure 6, the transport pathway analysis for TPH did not identify any significant pathways for the migration of TPH from the upland soils to the wetland sediments. Concentrations of TPH fractions in IA A2 were nearly all below proposed screening values considered to be protective of wildlife. In the event that TPH should migrate from the upland soils to the wetland in the future, there would be little or no risk to ecological receptors.

As a result of the further evaluation of the data presented in the document, it does not appear that biological sampling is warranted to address ecological risk in Investigation Area A2. Further discussions with the regulatory agencies will be necessary to reach agreement. Navy is scheduled to meet with the regulatory agencies on July 14, 1999 in order to discuss the enclosed document.

Sincerely,



Virginia Demetrios
Project Manager

Enclosure

Distribution List:

EFA West (Attn: Winton Baker [seven enclosures, two are for the administrative record])
CSO Mare Island (Attn: Richard Logar, BEC)
California Department of Toxic Substances Control (Attn: Chip Gribble [two enclosures])
California Department of Toxic Substances Control (Attn: Jim Polisini)
California Regional Water Quality Control Board (Attn: Michael Rochette)
California Regional Water Quality Control Board (Attn: Susan Gladstone)
U.S. Environmental Protection Agency (Attn: Bonnie Arthur)
U.S. Environmental Protection Agency (Attn: Clarence Callahan)
U.S. Fish and Wildlife Service (Attn: Jim Haas)
California Fish and Game Service (Attn: Susan Ellis)
National Oceanic and Atmospheric Administration (Attn: Laurie Sullivan)
Restoration Advisory Board (RAB) Community Co-Chair (Attn: Myrna Hayes)
RAB Member (Attn: Ken Kloc)
SSPORTS Mare Island (Wally Neville [four enclosures - for the RAB library])
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