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NSY LONG BEACH
SSIC #5090.3

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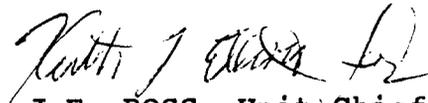
DRAFT PROJECT WORK PLANS, REMEDIATION OF BUILDING 144 - NAVAL SHIPYARD LONG BEACH (File No. 90-76)

We have received and reviewed the Draft Project Work Plans for the Remediation of Building 144 at the Naval Shipyard in Long beach California, dated November 1994. Our comments are as follows:

- . Section 1.4 and Section 3.1.1 propose measuring tidal fluctuations in groundwater monitoring wells at the site. A facility wide study of tidal fluctuations in groundwater monitoring wells on site was recently conducted by the Navy through Bechtel Inc. We believe the data from the above study should be made available and incorporated into this project.
- . Section 2.1 mentions extracting and collecting groundwater and condensable vapor from the soil vapor extraction system (SVE). The document should include the eventual disposition of this liquid.
- . Please note that the Leaking Underground Fuel Tank (LUFT) derived, 100 mg/kg cleanup concentration for total petroleum hydrocarbons (TPH) quantified as diesel in Section 2.2 is for soil only. Proposed cleanup criteria for both soil and groundwater should be included in this section. Section 2.2 should also propose cleanup criteria for the chlorinated hydrocarbons present on site.
- . Section 3.1 proposes additional soil sampling on the north, east, and west portions of the site. The horizontal and vertical limits of the soil and groundwater contamination to the south are not known at this time. Therefore, the Navy should also include site characterization on the south end of the site. Samples submitted to the laboratory should also be analyzed for chlorinated solvents.

- . We understand that the dual vacuum extraction well will be in place for a minimum of one year. To ensure well casing integrity, a cement-bentonite grout collar similar to that proposed for the air sparging wells (Figure 5), should be used.
- . Section 6.2 proposes a remediation period of one year. Please indicate why this time period was chosen. Any calculations, and/or models that were used to calculate the time required to remediate the site should be included in the document.
- . The remediation systems affect on the chlorinated solvents present should also be discussed in Appendix C, Section 1.1.
- . Section 11.5 should state that the soil and groundwater samples should be stored at a temperature not to exceed 4 degrees Centigrade.

If you have any questions regarding this matter, please contact Hugh Marley at (213) 266-7669.


J.E. ROSS, Unit Chief
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