



California Regional Water Quality Control Board Central Valley Region



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FINAL CLOSURE CERTIFICATION REPORT UNDERGROUND STORAGE TANKS CL-4, CL-5, CL-6, CL-40, CL-101, CL-102, CL-138, AND CL-147, NAVAL AUXILIARY LAND FIELD (NALF), CROWS LANDING, STANISLAUS COUNTY.

We have reviewed the Final Closure Certification Report for seven Underground Storage Tanks CL-4, CL-5, CL-6, CL-40, CL-102, CL-138, and CL-147 (Final Report), submitted 1 July 1998, for NALF Crows Landing. We appreciate the effort that the Navy has put into revising this Report. The Final Report and response to comments of the Draft Report (submitted March 1998) have satisfactorily addressed most of our comments on these USTs, with the exception of UST CL-40.

USTs CL-4, CL-5, CL-6, CL-101, CL-102, CL-138 and CL-147

Board staff has determined that appropriate response actions have been completed for six (Underground Storage Tanks (USTs): CL-4, CL-5, CL-6, CL-101, CL-102 CL-138 and CL-147; and, that no further remedial actions are necessary based on confirmation sampling provided at these sites. Confirmation soil sampling results indicate that petroleum contamination (TPHd, TPHg and BTEX) is reported to be below detection limits, with the exception of product line sampling performed at USTs CL-4, CL-5 and CL-6 (adjacent to each other). Soil samples collected near these product lines detected 16 µg/kg toluene, 250 µg/kg ethylbenzene and 1300 µg/l xylenes. However, we believe that residual petroleum contamination at these USTs, will be addressed by proposed soil remediation activities at adjacent UST Cluster 1 and will, therefore, not pose a threat to beneficial uses of groundwater.

UST CL-40

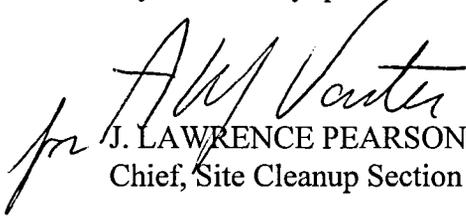
We are still concerned that analyses of soil collected in the excavation for UST CL-40 was limited to petroleum constituents, although the Navy reported that the use of this tank is unknown. The Navy responded to this comment by indicating that all groundwater contamination in the area surrounding UST CL-40 is associated with Installation Restoration Plan (IRP) Site 17 (i.e., carbon tetrachloride contamination) or USTs Cluster 1 (i.e., petroleum contamination). Although we believe that IRP Site 17 and UST Cluster 1 are both source areas for groundwater contamination, it appears that UST CL-40 may also be a source area for benzene and other VOCs. Monitoring well 17-MW-12, approximately 50 feet

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east of the product line for UST CL-40, has detected benzene (2600 ppb- March 1998), 1,2 dichloroethane (82 ppb- March 1998) and chloroform (30 ppb-March 1998). Benzene concentrations detected in monitoring well 17-MW-12 are greater than benzene concentrations detected near UST Cluster 1. Further characterization of this site is warranted based on these data.

It is possible that the groundwater and soil remediation activities for IRP Site 17 and UST Cluster 1 could address concerns with UST CL-40. The Navy should submit a proposal and describe how the remedial design work for IRP Site 17 and UST Cluster 1 could be coordinated to provide further characterization of UST CL-40.

If you have any questions in this matter, please call Robert Reeves at (916) 255-3050.


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