



Department of Toxic Substances Control



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February 9, 2001

Mr. Dean Gould
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SUMMARY REPORT AND ADDENDUM FOR FORMER ABOVE-GROUND STORAGE TANK (AST) SITE 753, MARINE CORPS AIR STATION (MCAS) EL TORO

Dear Mr. Gould:

The Department of Toxic Substances Control (DTSC) reviewed the above summary report dated December 3, 1999 and addendum dated December 15, 2000. The summary report presents the results of a historical records evaluation and visual inspection conducted for AST 753. The addendum presents the results of soil sampling conducted in response to comments submitted by the RWQCB and DTSC.

To verify a potential release from AST 753, shallow soil samples were collected. Four sampling locations were selected based upon the condition of asphalt pavement and flow direction of surface runoff in the vicinity of AST 753. Three soil samples were collected from each location at depth of 1.5, 3 and 5 feet below ground surface (bgs).

According to the addendum, concentrations of gamma-chlordane, malathion and 2,4-dichlorophenoxyacetic acid (2,4-D) were reported as estimated values (less than the laboratory reporting limits noted by a "J" data qualifier) in samples collected from locations 753-HA-02 and 753-HA-03. Each chemical was only detected once.

The concentration of gamma-chlordane was estimated to be 0.00063 milligrams per kilogram (mg/kg) in the 3-foot sample collected from 753-HA-02. Gamma-chlordane was the only chemical detected with Preliminary Remediation Goals (PRGs) (United States Environmental Protection Agency, Region IX, October 1, 1999) based on carcinogenic effects. The associated residential soil PRG for chlordane is 1.6 mg/kg.

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Web-site at www.dtsc.ca.gov.

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The concentration of malathion was estimated to be 0.014 mg/kg in the 1-foot sample collected from 753-HA-03. The concentration of 2,4-D was estimated to be 0.0066 mg/kg in the 5-foot sample collected from 753-HA-03. Malathion and 2,4-D were the only chemicals detected with PRGs based on non-carcinogenic effects. The associated residential soil PRGs are 1,200 mg/kg for malathion and 690 mg/kg for 2,4-D.

The estimated concentrations of chemicals are significantly less than their respective PRGs. Essentially, a screening risk assessment using the estimated concentrations of these chemicals would show that cancer risk (carcinogenic effects) and hazard index (non-carcinogenic effects) are well below the screening values of 1×10^{-6} and 1, respectively. As a result, DTSC concurs with the proposed status of no further action for AST 753. The no further action status can be documented in the next Base Realignment and Closure (BRAC) Business Plan update.

If you have any questions, please contact me at (714) 484-5395.

Sincerely,



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TRANSMITTAL

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Note: AST 753 is located
within IRP Site 24.