

State Water Resources Control Board

UNDERGROUND STORAGE TANK (UST) CASE CLOSURE SUMMARY

Agency Information

Agency Name: Santa Ana Regional Water Quality Control Board (Santa Ana Water Board)	Address: 3737 Main Street, Suite 500 Riverside, CA 92501
Agency Caseworker: Kyle Wright	Case No.: 083603641T

Case Information

UST Cleanup Fund (Fund) Claim No.: N/A	Global ID: T0607100630
Site Name: Bear Valley Paving	Site Address: 41841 Garstin Drive Big Bear Lake, CA 92315
Responsible Party Bear Valley Paving Attention: Jacque Montero	Address: 41841 Garstin Drive Big Bear Lake, CA 92315
Fund Expenditures to Date: N/A	Number of Years Case Open: 22

GeoTracker Case Record: <http://geotracker.waterboards.ca.gov/?gid=T0607100630>

Summary

This case has been proposed for closure by the State Water Resources Control Board at the request of the Santa Ana Regional Water Quality Control Board, which concurs with closure.

The Low-Threat Underground Storage Tank Case Closure Policy (Policy) contains general and media-specific criteria, and cases that meet those criteria are appropriate for closure pursuant to the Policy because they pose a low threat to human health, safety, and the environment. The Site meets all of the required criteria of the Policy and therefore, is subject to closure.

Soil samples collected in 1999 during the removal of a 5,000-gallon gasoline UST and an 8,000-gallon diesel UST exhibited elevated concentrations of petroleum constituents. Between June 2001 and September 2003 four monitoring wells were installed and have been irregularly monitored, most recently in 2007. The water quality objective for methyl tertiary-butyl ether was exceeded in one monitoring well at that time. Remaining

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petroleum impacts in soils and groundwater are limited to the Site and do not pose a significant risk to human health or the environment.

Remaining petroleum constituents are limited, stable, and decreasing. Additional assessment would be unnecessary and will not likely change the conceptual model. Any remaining petroleum constituents do not pose significant risk to human health, safety, or the environment under current conditions.

Rationale for Closure Under the Policy

- General Criteria – Site **MEETS ALL EIGHT GENERAL CRITERIA** under the Policy.
- Groundwater Media-Specific Criteria – Site meets the criteria in **Class 1**. The contaminant plume that exceeds water quality objectives is less than 100 feet in length. There is no free product. The nearest existing water supply well or surface water body is greater than 250 feet from the defined plume boundary.
- Petroleum Vapor Intrusion to Indoor Air – Site meets **Criteria 2 (a) Scenario 3**. As applicable, the extent of the bioattenuation zone, oxygen concentrations in soil gas concentrations of total petroleum hydrocarbons as gasoline and diesel combined in soil, and dissolved concentrations of benzene in groundwater meet the Policy.
- Direct Contact and Outdoor Air Exposure – Site meets **Criteria 3 (a)**. Maximum concentrations of petroleum constituents in soil are less than or equal to those listed in Table 1 of the Policy.

There are no soil sample results in the case record for naphthalene. However, the relative concentration of naphthalene in soil can be conservatively estimated using the published relative concentrations of naphthalene and benzene in gasoline. Taken from Potter and Simmons (1998), gasoline mixtures contain approximately 2% benzene and 0.25% naphthalene. Therefore, benzene concentrations can be used as a surrogate for naphthalene concentrations with a safety factor of eight. Benzene concentrations from the Site are below the naphthalene thresholds in Table 1 of the Policy. Therefore, estimated naphthalene concentrations meet the thresholds in Table 1 and the Policy criteria for direct contact with a safety factor of eight. It is highly unlikely that naphthalene concentrations in the soil, if any, exceed the threshold.

Recommendation for Closure

The corrective action performed at this Site ensures the protection of human health, safety, and the environment. The corrective action performed at this Site is consistent with chapter 6.7 of division 20 of the Health and Safety Code, implementing regulations, applicable state policies for water quality control and applicable water quality control plans. Case closure is recommended.

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Reviewed By: 
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Senior Engineering Geologist

5/26/2021
Date

