

State Water Resources Control Board

UST CASE CLOSURE REVIEW SUMMARY REPORT

Agency Information

Agency Name: State Water Resources Control Board (State Board)	1001 I Street Sacramento, CA 95814
Agency Caseworker: Matthew Cohen	Case No.: None

Former Agency Information

Former Agency Name: City of Vernon	Address: 4305 Santa Fe Avenue Vernon, CA 90058
Agency Caseworker: Lewis Possebon	Case No.: None

Case Information

USTCF Claim No.: 18521	GeoTracker Global ID: T10000001258
Site Name: Former Radel's Service Station	Site Address: 4337 Downey Road Vernon, CA 90058
Responsible Party: Former Radel's Service Station Attn: Hilda Hidar	Address: Private Residence
USTCF Expenditures to Date: \$191,083	Number of Years Case Open: None

URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T10000001258

Summary

The Low-Threat Underground Storage Tank (UST) Case Closure Policy (Policy) contains general and media-specific criteria, and cases that meet those criteria are appropriate for closure pursuant to the Policy. This case meets all of the required criteria of the Policy. Highlights of the case follow:

This Site is a bus repair business. An unauthorized release has not been reported. Four USTs (two gasoline, one diesel, one waste oil) were removed in March 1999. Ozone injection was conducted January 2013 through September 2013 and reportedly three pounds of ozone has been sparged. No groundwater monitoring wells have been installed. This is a soil only case based on soil investigations completed in October 2000, October 2001, March 2003 and October 2008. During these assessments a total of 27 boreholes have confirmed that residual petroleum hydrocarbons are present between the depths of approximately 20 to 40 feet below ground surface (bgs). Multiple deeper samples were collected in order to confirm the limited extent. Reportedly depth to groundwater is 230 feet bgs in the area.

The petroleum release is limited to the soil. According to data available in GeoTracker, there are no supply wells regulated by the California Department of Public Health or surface water bodies within 1,000 feet of the Site. No other water supply wells have been identified within 1,000 feet of the Site in files reviewed. Water is provided to water users near the Site by the City of Vernon Water Department. Corrective actions have been implemented and additional

corrective actions are not necessary. Any remaining petroleum hydrocarbon constituents do not pose a significant risk to human health, safety or the environment.

Rationale for Closure under the Policy

- **General Criteria:** The case meets all eight Policy general criteria.
Groundwater Specific Criteria: Soils only case - There are not sufficient mobile constituents (leachate, vapors, or light non-aqueous liquids [LNAPL]) to cause groundwater to exceed the groundwater criteria in this Policy. Based on soil investigations completed in October 2000, October 2001, March 2003 and October 2008. During these assessments a total of 27 boreholes have confirmed that residual petroleum hydrocarbons are present between the depths of approximately 20 to 40 feet below ground surface (bgs). Multiple deeper samples were collected in order to confirm the limited extent. Reportedly depth to groundwater is 230 feet bgs in the area.
- **Vapor Intrusion to Indoor Air:** The case meets Policy Criterion 2b. Although no document titled "Risk Assessment" was found in the files reviewed, a professional assessment of site-specific risk from exposure through the vapor intrusion pathway was performed by Fund staff. The assessment found that there is no significant risk of petroleum vapors adversely affecting human health. The Site is paved and accidental exposure to site soils is prevented.
- **Direct Contact and Outdoor Air Exposure:** The case meets Policy Criterion 3a. Maximum concentrations in soil are less than those in Policy Table 1 for Commercial/Industrial use, and the concentration limits for a Utility Worker are not exceeded. 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 percent benzene and 0.25 percent naphthalene. Therefore, benzene 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 Policy Table 1. Therefore, the estimated naphthalene concentrations meet the thresholds in Table 1 and the Policy criteria for direct contact by a factor of eight. It is highly unlikely that naphthalene concentrations in the soil, if any, exceed the threshold.

Determination

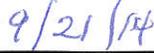
Based on the review performed in accordance with Health & Safety Code Section 25296.10 subdivision (a), the Fund Manager has determined that closure of the case is appropriate.

Recommendation for Closure

Based on available information, residual petroleum hydrocarbons at the Site do not pose a significant risk to human health, safety, or the environment, and the case meets the requirements of the Policy. Accordingly, the Fund Manager recommends that the case be closed. The State Water Board is conducting public notification as required by the Policy. The County has the regulatory responsibility to supervise the abandonment of monitoring wells.



Lisa Babcock, P.G. 3939, C.E.G. 1235



Date

Prepared by: Kirk Larson, P.G.