

State Water Resources Control Board

UST CASE CLOSURE SUMMARY

Agency Information

Agency Name: Santa Clara County	Address: 1555 Berger Drive, Suite 300 San Jose, CA 95112
Agency Caseworker: Mr. Gerald O'Regan	Case No.: 07S1E22G04f

Case Information

USTCF Claim No.: N/A	Global ID: T0608501625
Site Name: Caldo Oil Company Inc.	Site Address: 2266 Senter Road San Jose, CA 95112 (Site)
Responsible Parties: Mr. Victor LoBue	Address: 20100 Black Road Los Gatos, CA 95033
USTCF Expenditures to Date: N/A	Number of Years Case Open: 19

URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0608501625

Summary

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. This case meets all of the required criteria of the Policy.

Six underground storage tanks (USTs) were removed in 1988, six aboveground storage tanks were removed in 1990, and four USTs along with eight fuel dispensers were removed in 2006. The Site was excavated in 1988, 2006, and 2012. Groundwater was encountered approximately 23 feet below ground surface (bgs) at the Site and the groundwater flow direction is westerly. The Site has five groundwater monitoring wells and seven remediation wells. From August 2012 to January 2013 a total of 1,942 pounds of vapor-phase petroleum hydrocarbons were removed and a total of 187,707 gallons of groundwater were extracted using Dual Phase Extraction (DPE). Residual petroleum constituents remain just above the water table. Light non-aqueous-phase liquid was detected and removed using DPE. This Site is currently being used as a small shopping mall. The nearest surface water body is Coyote Creek, which is approximately 1,500 feet east of the Site. The nearest public supply well regulated by the California Department of Public Health is the San Jose Water Company Tully well, which is approximately 2,000 feet east of the Site.

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The extent of the contaminant plume has been laterally and vertically defined and is less than 250 feet in length. The current groundwater monitoring data is consistent with previous monitoring events and consistent with a stable and attenuating plume. Free product has been removed to the extent practicable and the residual petroleum plume does not extend off-Site. The plume has been stable and decreasing for a minimum of five years and the nearest existing water supply well or surface water body is greater than 1,000 feet from the defined plume boundary. Corrective action has been implemented and additional corrective action would be unnecessary and costly. Additional corrective action will not likely change the Conceptual Site Model. Remaining petroleum constituents are limited, stable, and declining. Residual petroleum constituents pose a low risk to human health, safety, and the environment.

Rationale for Closure under the Policy

- General Criteria – Site **MEETS ALL EIGHT GENERAL CRITERIA** under the Policy.
- Groundwater Media-Specific Criteria – Site meets the criterion in **CLASS 3**. The Site meets all the specific conditions under this criterion. The contaminant plume that exceeds water quality objectives is less than 250 feet in length. Free product has been removed to the extent practicable. Residual petroleum plume does not extend off Site. Plume has been stable or decreasing for a minimum of five years. Nearest existing water supply well or surface water body is greater than 1,000 feet from the defined plume boundary.
- Petroleum Vapor Intrusion to Indoor Air – Site meets **CRITERIA (2) a**. Corrective action has been implemented using a DPE to remove 1,942 pounds of vapor phase petroleum hydrocarbons from the vadose zone and capillary fringe and to extract 187,707 gallons of heavily contaminated groundwater from the top of the water table where dissolved phase concentrations are highest. Residual petroleum constituents are naturally attenuating.
- Direct Contact and Outdoor Air Exposure – Site meets **CRITERIA (3) a**. Maximum concentrations of petroleum constituents in soil from confirmation soil samples are less than or equal to those listed in Table 1 of the Policy. The estimated naphthalene concentrations are less than the thresholds in Table 1 of the Policy for direct contact. 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 of 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.

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Recommendation for Closure

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

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6/24/14
Date

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