

State Water Resources Control Board

UST CASE CLOSURE REVIEW SUMMARY REPORT

Current Agency Information

Agency Name: Orange County Environmental Health Department (County)	Address: 1241 East Dyer Road, Suite 120 Santa Ana, CA 92705
Agency Caseworker: Kevin Lambert	Case No.: 94UT053

Case Information

USTCF Claim No.: 14312	GeoTracker Global ID: T0605901800
Site Name: Thrifty Oil #371	Site Address: 13511 South Euclid Street Garden Grove, CA 92843
Responsible Party: Thrifty Oil Company Best California Gas Attn: Chris Panaitescu	Address: 13116 Imperial Springs Santa Fe Springs, CA 90670
USTCF Expenditures to Date: \$669,955	Number of Years Case Open: 19

To view all public documents for this case available on GeoTracker use the following URL.
URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605901800

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 an active commercial petroleum fueling facility. An unauthorized release was reported in September 1994 following the removal of three gasoline USTs. An unknown volume of impacted soil was excavated to a depth of 11 feet and disposed offsite in 1994. Soil vapor extraction was conducted between June 2001 and July 2002 for a total of 8,219 hours, removed 6,347 pounds of total petroleum hydrocarbons as gasoline (TPHg). Dual phase extraction was conducted between May 2003 and June 2003, which reportedly removed 0.44 pounds of TPHg and 4,128 gallons of contaminated groundwater. High vacuum dual phase extraction was conducted between September 2007 and October 2007 for a total of 60 hours, which reportedly removed 20 pounds of TPHg and 11,685 gallons of contaminated groundwater. Batch groundwater extraction was conducted intermittently between September 2002 and February 2011, which removed 117,182 gallons of contaminated groundwater. Since 2000, 15 groundwater monitoring wells have been installed and monitored. According to groundwater data, water quality objectives have been achieved or nearly achieved. No active remediation has been conducted at the Site in the past three years.

The petroleum release is limited to the soil and shallow groundwater. According to data available in GeoTracker, there are no public water supply wells or surface water bodies within 1,000 feet of the defined plume boundary. No other water supply wells have been identified within 1,000 feet of the defined plume boundary in files reviewed. The unauthorized release is

located within the service area of a public water system, as defined in the Policy. The affected shallow groundwater is not currently being used as a source of drinking water, and it is highly unlikely that the affected shallow groundwater will be used as a source of drinking water in the foreseeable future. Other designated beneficial uses of impacted groundwater are not threatened, and it is highly unlikely that they will be, considering these factors in the context of the site setting. Remaining petroleum hydrocarbon constituents are limited and stable, and concentrations are decreasing. 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: The case meets Policy Criterion 1 by Class 2. The contaminant plume that exceeds water quality objectives is less than 250 feet in length. There is no free product. The nearest water supply well or surface water body is greater than 1,000 feet from the defined plume boundary. The dissolved concentration of benzene is less than 3,000 µg/L, and the dissolved concentration of MTBE is less than 1,000 µg/L.
- Vapor Intrusion to Indoor Air: The case meets the Policy Exclusion for an Active Commercial Petroleum Fueling Facility. Soil vapor evaluation is not required because the Site is an active commercial petroleum fueling facility and the release characteristics do not pose an unacceptable health risk.
- 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.

Objections to Closure and Responses

The County has no objections to closure.

Determination

Based on the review performed in accordance with Health & Safety Code Section 25299.39.2 subdivision (a), the Fund Manager has determined that closure of the case is appropriate.

Thrifty Oil #371
13511 South Euclid Street, Garden Grove
Claim No: 14312

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. Orange County has the regulatory responsibility to supervise the abandonment of monitoring wells.

Lisa Babcock

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

9/21/14

Date

Prepared by: Kirk Larsen, P.G.