

State Water Resources Control Board

UST CASE CLOSURE REVIEW SUMMARY REPORT

Agency Information

Agency Name: Los Angeles Regional Water Quality Control Board (Regional Water Board)	Address: 320 West 4 th Street, Suite 200 Los Angeles, CA 90013
Agency Caseworker: Noman Chowdhury	Case No.: I-11011

Case Information

USTCF Claim No.: 13272	GeoTracker Global ID: T0603703715
Site Name: Tosco – 76 Station #4459 (Former)	Site Address: 15806 Whittier Blvd. East Whittier, CA 90603
Responsible Party: Union Oil Co. of California C/O: Chevron Environmental Attn: James P. Kiernan	Address: 6101 Bollinger Canyon Road San Ramon, CA 94583
USTCF Expenditures to Date: \$0	Number of Years Case Open: 20

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=T0603703715

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 case is currently an automobile oil change facility and formerly a commercial petroleum fueling facility. An unauthorized release was reported in March 1994. Three USTs (two gasoline, one waste oil) were removed in 1998. Approximately 15.61 tons of impacted soil was excavated in the UST pit area to 12 feet below ground surface in 1998. In 2003, approximately 1,926 tons of additional impacted soil was excavated during Site redevelopment. This case has been open for 20 years and no active remediation has been conducted at the Site. Since 1994, eight groundwater monitoring wells have been installed and regularly monitored. According to groundwater data, water quality objectives have been achieved or nearly achieved except for benzene, methyl tert butyl ether (MTBE) and tert butyl alcohol (TBA) in monitoring well MW-2.

The petroleum release is limited to the soil and shallow groundwater. According to data available in GeoTracker, there are no water supply wells within 1,000 feet of the defined plume boundary. Concrete lined Leffingwell Creek is located 700 feet south and cross-gradient of the Site. 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 micrograms per liter ($\mu\text{g/L}$), and the dissolved concentration of MTBE is less than 1,000 $\mu\text{g/L}$.
- **Vapor Intrusion to Indoor Air:** The case meets Policy Criterion 2b. A site-specific risk assessment of potential exposure to petroleum constituents as a result of vapor intrusion (TRC, March 2003) found that maximum concentrations of petroleum constituents remaining in soil and groundwater will have no significant risk of adversely affecting human health.
- **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 Regional Water Board objects to UST case closure (December 3, 2013 Geotracker "Path to Closure" entry) because:

- The case does not satisfy Policy criteria because of high groundwater concentrations of benzene and MTBE.

RESPONSE: The case meets all Policy criteria and does not pose a significant risk to human health.

Tosco – 76 Station #4459 (Former)
15806 Whittier Blvd. East, Whittier
Claim No: 13272

September 2014

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.

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

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

9/21/14
Date