

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: Nhan Bao	Case No.: I-12054

Case Information

USTCF Claim No.: 9641	GeoTracker Global ID: T0603703905
Site Name: ARCO #1289	Site Address: 4861 East Firestone Blvd. South Gate, CA 90280
Responsible Party: Tesoro Refining and Marketing Company LLC Attn: Paula Sime	Address: 400 Oceangate, Suite 600 Long Beach, CA 90802
BP Remediation Management Attn: Jim L. Smith	201 Helios Way Houston, TX 77079
Norma Jauregui	Private Address
USTCF Expenditures to Date: \$0	Number of Years Case Open: 22

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=T0603703905

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 a former commercial petroleum fueling facility being developed as part of a regional shopping center. An unauthorized release was reported in May 1992. Approximately 418 cubic yards of impacted soil were excavated and disposed offsite in 1998. Excavation was conducted to a total depth of 10 feet. Soil vapor extraction and air sparging have been conducted between March 2011 and March 2013, which reportedly removed 40,305 pounds of total petroleum hydrocarbons as gasoline (TPHg). The rate of TPHg removal in March 2013 was 4.5 pounds per day. An additional 16 cubic yards of contaminated soil was excavated to a maximum of 11 feet below ground surface (bgs) during the removal of a waste oil UST in August 2013. Since 1992, 19 groundwater monitoring wells have been installed and monitored; 14 wells have been abandoned. According to groundwater data, water quality objectives have been achieved or nearly achieved for all constituents.

The petroleum release is limited to the soil and shallow groundwater. According to data available in GeoTracker, there is one public water supply well located approximately 800 feet south (crossgradient) from the projected plume boundary. No other water supply wells or surface water bodies have been identified within 1,000 feet of the projected 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 the affected shallow 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 5. There is one public water supply well approximately 800 feet south (crossgradient) from the projected plume boundary. Low concentrations of the residual benzene and methyl tert-butyl ether (MTBE) remain onsite and northwest (downgradient) of the Site but do not threaten the public water well. Otherwise, the case meets Policy Criterion 1 by Class 4. The contaminant plume that exceeds water quality objectives is less than 1,000 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 projected plume boundary. The dissolved concentrations of benzene and MTBE are each less than 1,000 micrograms per liter ($\mu\text{g/L}$). The regulatory agency determines, based on an analysis of site specific conditions, which under current and reasonably anticipated near-term future scenarios, the contaminant plume poses a low threat to human health and safety and to the environment and water quality objectives will be achieved within a reasonable time frame.
- **Vapor Intrusion to Indoor Air:** The case meets Policy Criterion 2a by Scenario 3a. The maximum benzene concentration in groundwater is less than 100 $\mu\text{g/L}$. The minimum depth to groundwater is greater than 5 feet, overlain by soil containing less than 100 milligrams per kilogram (mg/kg) of TPH.
- **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

The Fund Manager has determined that corrective action performed at the Site is consistent with the requirements of Health and Safety code section 25296.10, subdivision (a), and that closure of the case is appropriate.

ARCO #1289
4861 East Firestone Boulevard, South Gate
Claim No: 9641

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

4/21/15

Date

Prepared by: Kirk Larson, P.G.