

State Water Resources Control Board

UST CASE CLOSURE SUMMARY

Agency Information

Current Agency Name: State Water Resources Control Board (State Water Board)	Address: 1001 I Street, P.O. Box 2231 Sacramento, CA 95812
Current Agency Caseworker: Mr. Matthew Cohen	Case No.: N/A
Former Agency Name: Los Angeles County Department of Public Works (Prior to 7/1/2013)	Address: 900 South Fremont Avenue Alhambra, CA 91803
Former Agency Caseworker: Mr. John Awujo	Case No.: TT012587-012754

Case Information

USTCF Claim No.: None	Global ID: T0603705160
Site Name: LA Co Fire Station #14	Site Address: 1401 West 108 th Street Los Angeles, CA 90047 (Site)
Responsible Party: Los Angeles County Fire Department	Address: 1320 North Eastern Avenue Los Angeles, CA 90063
USTCF Expenditures to Date: N/A	Number of Years Case Open: 22

URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603705160

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.

The release at the Site was discovered during a subsurface soil investigation in February 1990. Sample results from the investigation indicated that petroleum constituents were present in the soil near the underground storage tanks (USTs) at 15 feet below ground surface (bgs). Two USTs, along with associated dispensers and product piping, were removed from the Site in March 1994. Sample results from the UST removal indicated that petroleum constituents were present in soil between 2 and 23 feet bgs near the former UST system. A Phase II Site Investigation, which included advancing five soil borings to a depth of 40 feet bgs, was performed at the Site in December 2001. Petroleum constituents were detected in samples collected to a depth of 30 feet bgs. Petroleum constituents were not detected in samples collected at 35 and 40 feet bgs. The Site is operated as an active fire station.

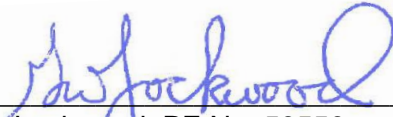
Groundwater was not encountered to the maximum depth explored at the Site, 40 feet bgs. Depth to groundwater at the Site is estimated to be greater than 80 feet bgs; however, shallow perched groundwater may be present beneath the Site at approximately 45 feet bgs. The nearest public supply well and surface water body are greater than 1,000 feet from the Site. Additional corrective action will not likely change the conceptual site model. Residual petroleum constituents pose a low risk to human health, safety, or the environment.

Rationale for Closure under the Policy

- General Criteria – Site **MEETS ALL EIGHT GENERAL CRITERIA** under the Policy.
- Groundwater Media-Specific Criteria – Site releases **HAVE NOT LIKELY AFFECTED GROUNDWATER**. There are not sufficient mobile constituents (leachate, vapors, or light non-aqueous phase liquid) to cause groundwater to exceed the groundwater criteria in this Policy.
- Petroleum Vapor Intrusion to Indoor Air Criteria – Site meets **CRITERION 2 (b)**. A Site-specific risk assessment of the vapor intrusion pathway was conducted. The assessment found that there is a low risk of petroleum vapors adversely affecting human health. Benzene was generally detected greater than ten feet bgs and was not detected during the most recent assessment. Petroleum constituent concentrations appear to be minor and localized.
- Direct Contact and Outdoor Air Exposure Criteria – Site meets **CRITERION 3 (b)**. Maximum concentrations in soil are less than those in Policy Table 1 for residential use, and the concentration limits for a Utility Worker are not exceeded. 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.

Recommendation for Closure

The corrective action performed at this Site ensures the protection of human health, safety, and 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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4/21/14

Date

