

State Water Resources Control Board

UST CASE CLOSURE SUMMARY

Agency Information

Agency Name: Los Angeles Regional Water Quality Control Board	Address: 320 West 4 th Street, Suite 200 Los Angeles, CA 90013
Agency Caseworker: Mr. Noman Chowdhury	Case No.: I-06116

Case Information

USTCF Claim No.: None	Global ID: T0603703168
Site Name: Alhambra General Mail Facility	Site Address: 15421 East Gale Avenue Industry, CA 91745 (Site)
Responsible Party: U.S. Postal Service, Pacific Facilities Service Office Attention: Ms. Emmy Andrews	Address: 1300 Evans Street, Suite 200 San Francisco, CA 94188-8200
USTCF Expenditures to Date: N/A	Number of Years Case Open: 26

URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603703168

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 was discovered when concentrations of petroleum constituents were identified at the Site in 1989. Three underground storage tanks (USTs) were removed from the Site in August 1998. Low concentrations of petroleum constituents were detected beneath the former USTs and dispensers at estimated depths of 12 feet below ground surface (bgs) and 2 to 4 feet bgs, respectively. The Site is currently operated as a United States Postal Service general mail facility.

Depth to groundwater was estimated to be 22 feet bgs. The plume has been stable and localized. Benzene and total petroleum hydrocarbons as gasoline were not detected in any of the groundwater monitoring wells. Dissolved methyl tert-butyl ether and total petroleum hydrocarbons as diesel concentrations were detected below or near the water quality objectives (WQOs).

The nearest public supply well and surface water body are greater than 1,000 feet from the defined plume boundary. Additional corrective action will not likely change the conceptual site model. Remaining 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 Policy **CRITERION 1 by Class 1**. The contaminant plume that exceeds WQOs is less than 100 feet in length. There is no free product. The nearest existing water supply well or surface water body is greater than 250 feet from the defined plume boundary.
- Petroleum Vapor Intrusion to Indoor Air Criteria – The case meets Policy **CRITERION 2 (a)** by Scenario 3a. The maximum benzene concentration in groundwater is less than 100 µg/L. The bioattenuation zone provides a separation of at least five feet vertically between the dissolved phase benzene and the foundation of existing or potential buildings and contains total petroleum hydrocarbons less than 100 mg/kg throughout the entire depth of the bioattenuation zone.
- Direct Contact and Outdoor Air Exposure Criteria – Site meets **CRITERION 3 (a)**. Maximum concentrations of residual petroleum constituents in soil 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 and 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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Senior Water Resource Control Engineer

2/18/2015

Date

