

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.: TT012847-013056

Case Information

USTCF Claim No.: N/A	Global ID: T0603791164
Site Name: City of Arcadia	Site Address: 11800 East Goldring Road Arcadia, CA 91006 (Site)
Responsible Party: City of Arcadia Attention: Ms. Vanessa Hevener	Address: 240 West Huntington Drive Arcadia, CA 91006
USTCF Expenditures to Date: None	Number of Years Case Open: 10

URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603791164

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 when three underground storage tanks (USTs) were removed during 2003. Concentrations of benzene, ethylbenzene, and methyl tertiary butyl ether (MTBE) in soil were reported as high as 0.069 milligrams per kilogram (mg/kg), 0.11 mg/kg, and 25 mg/kg, respectively directly beneath UST locations. Concentrations of total petroleum hydrocarbons (TPH) as gasoline and TPH as diesel in soil were less than 10 mg/kg directly beneath UST locations. During 2007, concentrations of benzene, ethylbenzene, MTBE, TPH as gasoline, and TPH as diesel in confirmation soil samples were non-detect between 15 and 40 feet below grade surface (bgs). There is an operating aboveground petroleum storage tank at the Site. The Site is operated as a fueling facility, maintenance yard, and storage facility for city owned vehicles.

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The petroleum release is limited to the shallow soil. Groundwater was not encountered during UST removal or confirmation sampling activities. Based on the County of Los Angeles Department of Public Works Hydrologic Records Division gauging records for well number 4199E in October 11, 2003, depth to groundwater beneath the Site is estimated to be approximately 250 to 300 feet bgs. The nearest surface water body is an unnamed water body located approximately 700 feet north of the Site. The nearest public supply well regulated by the California Department of Public Health is located approximately 1,000 feet east of the Site.

Public water is provided by the San Gabriel Valley Water Company in El Monte, CA. Public supply wells are usually constructed with competent sanitary seals. Remaining petroleum constituents are limited. Corrective actions have been implemented and additional corrective action would be unnecessary and costly. Additional assessment will not likely change the CSM. Remaining petroleum constituents do not pose significant 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**. Soil does not contain sufficient mobile constituents (leachate, vapors, or light non-aqueous-phase liquids) to cause groundwater to exceed the groundwater criteria in this Policy.
- Petroleum Vapor Intrusion to Indoor Air – Site meets **EXCEPTION**. The Site is operated as a fueling facility, maintenance yard, and storage facility for city owned vehicles. Exposure to petroleum vapors associated with historical fuel system releases are comparatively insignificant relative to exposures from small surface spills and fugitive vapor releases that typically occur at active fueling facilities.
- Direct Contact and Outdoor Air Exposure – Site meets **CRITERIA (3) b**. Maximum concentrations of petroleum constituents in soil are less than levels that a site specific risk assessment demonstrates will have no significant risk of adversely affecting human health. Impacted soil was excavated to a depth of 16 feet bgs. Direct contact is unlikely since excavated areas were backfilled with clean fill and covered with concrete or asphalt. 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.

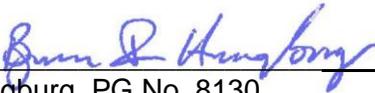
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Recommendation for Closure

The corrective action performed at this Site ensures the protection of human health, safety, 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.

Prepared By: 
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6/19/14
Date

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6/19/14
Date