

## 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: Ventura County Environmental Health Division (Prior to 7/1/2013)	Address: 800 South Victoria Avenue Ventura, CA 93009-1730
Former Agency Caseworker: Ms. Gina Teresa	Case No.: 03010

#### Case Information

USTCF Claim No.: None	Global ID: T0611155192
Site Name: Shell SS – Victoria	Site Address: 2440 South Victoria Avenue Ventura, CA 93001 (Site)
Responsible Party: Shell Oil Products US Attention: Ms. Andrea A. Wing	Address: 20945 South Wilmington Avenue Carson, CA 90810
USTCF Expenditures to Date: \$0	Number of Years Case Open: 12

URL: [http://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=T0611155192](http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0611155192)

#### 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 Site is an active petroleum fueling facility. Residual petroleum constituents at the Site were discovered during the November 2002 Site assessment. Low concentrations of petroleum constituents were detected in soil at approximately 35 feet below ground surface. In May 2003, four underground storage tanks (USTs), associated product piping, and dispensers were removed from the Site. Concentrations of petroleum constituents were detected in soil samples under the dispenser islands and former USTs. Approximately 1,264 tons of impacted soil were removed and transported off-site for disposal.

From 2005 through 2007, soil vapor extraction, groundwater extraction, and dual-phase extraction pilot tests were conducted at the Site. The pilot tests indicated that these extraction technologies were not effective for remediating residual petroleum constituents at the Site. In 2008, an oxygen pulse injection

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system (OPIS) was installed and operated at the Site. The results of the OPIS pilot test were favorable and the system operated through June 2014.

Residual petroleum constituents are limited to the shallow soil and groundwater. The affected groundwater is not currently being used as a source of drinking water or any other designated beneficial use, and it is highly unlikely that the affected groundwater will be used as a source of drinking water or any other beneficial use in the foreseeable future. The nearest public supply well and surface water body are greater than 1,000 feet from the Site. Remaining petroleum constituents are limited, stable, and declining. Additional corrective action will not likely change the conceptual model. Remaining 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 the criterion in **CLASS 3**. The contaminant plume that exceeds water quality objectives is less than 250 feet in length. Free product was not reported at the Site. The plume is either stable or decreasing for five years. The nearest existing water supply well or surface water body is greater than 1,000 feet from the defined plume boundary. Based on the absence of shallow soil contamination or free product, and the observed plume stability, a land use restriction does not appear warranted for the Site.
- Petroleum Vapor Intrusion to Indoor Air Criteria – Site meets **EXCEPTION** for vapor intrusion to indoor air. The Site is an active petroleum fueling facility and has no release characteristics that can be reasonably believed to pose an unacceptable health risk. Exposure to petroleum vapors associated with historical fuel system releases is 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 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.

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**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.



George Lockwood, PE No. 59556  
Senior Water Resource Control Engineer

12/12/2014

Date

