

## State Water Resources Control Board

### UST CASE CLOSURE SUMMARY

#### Agency Information

Agency Name: Los Angeles Regional Water Quality Control Board	Address: 320 West 4 <sup>th</sup> Street, Suite 200 Los Angeles, CA 90013
Agency Caseworker: Mr. Noman Chowdhury	Case No.: 908050789

#### Case Information

USTCF Claim No.: 18645	Global ID: T0603786961
Site Name: Shell Station	Site Address: 4990 Long Beach Boulevard Long Beach, CA 90805 (Site)
Responsible Party: Equilon Enterprises, LLC dba Shell Oil Products Company US Attention: Mr. Marvin Katz	Address: 20945 South Wilmington Avenue Carson, CA 90810
USTCF Expenditures to Date: \$0	Number of Years Case Open: 13

URL: [http://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=T0603786961](http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603786961)

#### 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 in February 2002, when minor concentrations of petroleum constituents were identified in soil and groundwater during a Phase II site assessment. Monthly groundwater extraction was conducted at the Site from July 2003 through January 2005, removing 13,797 gallons of groundwater. A soil vapor extraction system operated at the Site between August 2010 and November 2012, removing 4,217 pounds of vapor phase hydrocarbons based on laboratory results. The Site is operated as an active fueling facility.

Groundwater is approximately 31 feet below ground surface. Monitoring wells at the Site have reported residual petroleum constituent concentrations below water quality objectives (WQOs) since November 2012. 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, and the environment.


Shell Station  
4990 Long Beach Boulevard, Long Beach, Los Angeles County

### Rationale for Closure under the Policy

- General Criteria – Site **MEETS ALL EIGHT GENERAL CRITERIA** under the Policy.
- Groundwater Media-Specific Criteria – Site meets the criteria in **CLASS 1**. The contaminant plume that exceeds WQOs is less than 100 feet in length. There is no free product. The nearest water supply well or surface water body is greater than 250 feet from the defined plume boundary.
- Petroleum Vapor Intrusion to Indoor Air Criteria – Site meets **EXCEPTION**. 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.

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

2/19/2015  
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Date

