

## State Water Resources Control Board

### UNDERGROUND STORAGE TANK (UST) CASE CLOSURE SUMMARY

#### Agency Information

Agency Name: Los Angeles Regional Water Quality Control Board (Los Angeles Water Board)	Address: 320 West 4 <sup>th</sup> Street, Suite 200 Los Angeles, CA 90013
Agency Caseworker: Mr. Ahmad Lamaa	Case No.: I-10938

#### Case Information

UST Cleanup Fund Claim No.: 1791	Global ID: T0603703685
Site Name: Thrifty #057	Site Address: 12158 Alondra Boulevard Norwalk, CA 90650 (Site)
Responsible Party: Thrifty Oil Company Attention: Mr. Barry Berkett	Address: 13116 Imperial Highway Santa Fe Springs, CA 90670
USTCF Expenditures to Date: \$993,228	Number of Years Case Open: 24

URL: [http://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=T0603703685](http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603703685)

#### Summary

**This case has been proposed for closure by the State Water Resources Control Board at the request of the Los Angeles Water Board, which concurs with closure.**

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 currently a vacant former fueling facility. The release was discovered when petroleum constituents were detected in soil samples collected at the Site in May 1989. A total of 3,532 gallons of free product were removed via an automated free product recovery system, manual bailing, and absorbent socks between July 1990 and November 2004. Three USTs, dispensers, and associated product piping were removed from the Site in June 2001. A total of 1,112 tons of impacted soil were over-excavated and transported off-site for disposal during the 2001 UST removal.

A soil vapor extraction and air sparging system operated at the Site from November 2005 to May 2007 and May 2008 to September 2008, removing 14,656 pounds of petroleum constituents. A multi-phase extraction system operated at the Site between February 2010 and

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February 2014, extracted 17,955 pounds of petroleum constituents and 4.5 million gallons of groundwater. Two USTs, dispensers, and associated product piping were removed from the Site in July 2013. Petroleum constituents detected in the soil samples were low.

The average depth to groundwater is 23 feet below ground surface. The groundwater plume that exceeds water quality objectives (WQOs) is less than 250 feet in length and has been stable or decreasing. There are no surface water bodies within 1,000 feet of the defined plume boundary. There is an existing water supply well located approximately 730 feet northeast of the Site. Remaining petroleum constituents are limited, stable, and decreasing. Additional assessment would be unnecessary and will not likely change the conceptual model. Any remaining petroleum constituents do not pose significant risk to human health, safety, or the environment under current conditions.

### 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 5**. The regulatory agency determines, based on an analysis of Site-specific conditions that under current and reasonably anticipated near-term future scenarios, the contaminant plume poses a low threat to human health, safety, and to the environment and WQOs will be achieved within a reasonable time frame.

The source has been removed from the Site through UST removal and disposal of impacted soil. The groundwater plume that exceeds WQOs is less than 250 feet in length and has been stable or decreasing. The dissolved concentration of benzene is less than 3,000 micrograms per liter ( $\mu\text{g/L}$ ) and methyl tert-butyl ether is less than 1,000  $\mu\text{g/L}$ . Monitoring wells at plume edge are mostly non-detect for all petroleum constituents. There is an existing water supply well located approximately 730 feet northeast (cross-gradient) of the Site. Petroleum constituents have not been detected in the water supply well.

- Petroleum Vapor Intrusion to Indoor Air – Site meets **Criteria 2 (b)**. A site-specific risk assessment for the vapor intrusion pathway was conducted and demonstrates that human health is protected to the satisfaction of the regulatory agency.
- Direct Contact and Outdoor Air Exposure – Site meets **Criteria 3 (a)**. Maximum concentrations of petroleum constituents in soil from confirmation soil samples are less than or equal to those listed in Table 1 of the Policy.

There are no soil samples 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, 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

10/9/2015

Date

