UNDERGROUND STORAGE TANK (UST) CASE CLOSURE SUMMARY

Agency Information

Agency Name: Santa Ana Regional Water Quality Control Board (Santa Ana Water Board)	Address: 3737 Main Street, Suite 500 Riverside, CA 92501
Agency Caseworker: Kyle Wright	Case No.: 083303023T

Case Information

UST Cleanup Fund (Fund) Claim No.: N/A	Global ID: T0606500497
Site Name: Arco #6345	Site Address: 2624 East Alessandro Boulevard Riverside, CA 92508 (Site)
Responsible Party: Tesoro Refining and Marketing Company, LLC. Attention: Daniel M. Monson DMMonson@MarathonPetroleum.com	Address: 301 East Ocean Boulevard, Suite 1600 Long Beach, CA 90802-4867
Fund Expenditures to Date: $0	Number of Years Case Open: 24

GeoTracker Case Record: http://geotracker.waterboards.ca.gov/?gid=T0606500497

Summary

This case has been proposed for closure by the State Water Resources Control Board at the request of the Santa Ana Regional Water Quality Control 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 because they pose a low threat to human health, safety, and the environment. The Site meets all of the required criteria of the Policy and therefore, is subject to closure.

The Site has been an active fueling facility since at least 1993 when the current station was constructed. The unauthorized release was discovered in 1997 when methyl

tertiary butyl ether (MTBE) was detected in soil and groundwater samples collected from beneath the underground storage tanks (UST) as part of a property transaction. During UST system upgrade activities conducted in November 2002, petroleum hydrocarbons were detected in soil samples collected from beneath the fuel dispensers. Approximately 117 cubic yards of petroleum impacted soil were subsequently excavated and disposed of off-site. Groundwater at the Site has been periodically monitored since 1997. In October 2003 and February 2004, soil vapor extraction (SVE) pilot tests were conducted at the Site and SVE was determined to be ineffective at the Site. From June 29, 2015 to July 3, 2018, an oxygen sparging system operated at the Site, injecting a total of 50,861 pounds of oxygen into the subsurface. In October 2020, the maximum concentration of MTBE in groundwater was 254 micrograms per liter and benzene was not detected above laboratory limits.

The plume of groundwater exceeding water quality objectives is approximately 300 feet in length and has been stable or decreasing in aerial extent for two years. The nearest surface water body is the ephemeral Sycamore Creek located approximately 300 feet southwest of the plume boundary and the nearest supply well is located >3,000 feet north of the plume boundary. Except for the proximity to Sycamore Creek, Site conditions meet the Policy's Class 4 media-specific criteria for groundwater. Given that Sycamore Creek is ephemeral and the plume appears to have migrated away from the creek, the residual contamination is not likely to impact the creek.

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 water quality objectives will be achieved within a reasonable time frame.
- Petroleum Vapor Intrusion to Indoor Air – Site meets **Criteria 2 (a), Scenario 3**. As applicable, the extent of the bioattenuation zone, oxygen concentrations in soil gas, concentrations of total petroleum hydrocarbons as gasoline and diesel combined in soil, and dissolved concentrations of benzene in groundwater meet the Policy.
- 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.

Recommendation for Closure

The corrective action performed at this Site ensures the protection of human health, safety, and the environment. The corrective action performed at this Site is consistent with chapter 6.7 of division 20 of the Health and Safety Code, implementing regulations, applicable state policies for water quality control and applicable water quality control plans. Case closure is recommended.

Reviewed By: _____ 5/26/2021
Matthew Cohen, P.G. No. 9077 Date
Senior Engineering Geologist