

State Water Resources Control Board

REVISED REVIEW SUMMARY REPORT – ADDITIONAL WORK PRELIMINARY REVIEW – FEBRUARY 2015

Agency Information

Agency Name: Sacramento County Environmental Management Division (County)	Address: 10590 Armstrong Avenue Suite A Mather, CA 95655
Agency Caseworker: Sue Erikson	Case No.: C346

Case Information

USTCF Claim No.: 18030	GeoTracker Global ID: T0606753991
Site Name: 7-Eleven #24815	Site Address: 6180 Auburn Boulevard Citrus Heights, CA 95621
Responsible Party: 7- Eleven	Address: PO Box 711 Dallas, TX 75221
USTCF Expenditures to Date: \$0	Number of Years Case Open: 12

To view all public documents for this case available on GeoTracker use the following URL:
http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0606753991

Summary

The Low-Threat Underground Storage Tank (UST) 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 meet all of the required criteria of the Policy. Highlights of the case follow:

This case is an active commercial petroleum fueling facility. An unauthorized release was reported in September 2003 during fuel line upgrade activities. Approximately six cubic yards of contaminated soil was excavated and removed from the Site during upgrade activities. Active remediation has not been performed at the Site for 11 years. Since 2004, eight groundwater monitoring wells have been installed and monitored. In addition, two wells from an adjacent ARCO site are regularly monitored. According to groundwater data, water quality objectives have been achieved or nearly achieved for all constituents except total petroleum hydrocarbons as gasoline (TPHg) and benzene in the source area.

The petroleum release is limited to the soil and shallow groundwater. According to data available in GeoTracker, there are no public water supply wells within 1,000 feet of the defined plume boundary. Arcade Creek is located approximately 900 feet north and upgradient of the defined plume boundary (consultant documents state Arcade Creek is 550 feet north, but actual measurement is approximately 900 feet). No other water supply wells have been identified within 1,000 feet of the defined plume boundary in files reviewed. The unauthorized release is located within the service area of a public water system, as defined in the Policy. The affected shallow groundwater is not currently being used as a source of drinking water, and it is highly unlikely that the affected shallow groundwater will be used as a source of drinking water in the foreseeable

future. Other designated beneficial uses of the affected shallow groundwater are not threatened, and it is highly unlikely that they will be, considering these factors in the context of the site setting. Remaining petroleum hydrocarbon constituents are limited and stable, and concentrations are decreasing. Corrective actions have been implemented and additional corrective actions are not necessary. Any remaining petroleum hydrocarbon constituents do not pose a significant risk to human health, safety or the environment.

Rationale for Closure under the Policy

- **General Criteria:** The case meets all eight Policy general criteria.
- **Groundwater Specific Criteria:** The case meets Policy Criterion 1 by Class 5. Although Arcade Creek is located approximately 900 feet north of the Site, it is upgradient of the plume. It is believed that the Site does not pose a significant risk to the creek. If not for the creek this case would satisfy Policy Criterion 1 by Class 2. The contaminant plume that exceeds water quality objectives is less than 250 feet in length. There is no free product. The nearest downgradient public water supply well is more than 1,000 feet from the defined plume boundary.
- **Vapor Intrusion to Indoor Air:** The case meets the Policy Exclusion for Active Station. Soil vapor evaluation is not required because the Site is an active commercial petroleum fueling facility and the release characteristics do not pose an unacceptable health risk.
- **Direct Contact and Outdoor Air Exposure:** The case meets Policy Criterion 3a. Maximum concentrations in soil are less than those in Policy Table 1 for Commercial/Industrial use, and the concentration limits for a Utility Worker are not exceeded. 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 percent benzene and 0.25 percent naphthalene. Therefore, benzene 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 Policy Table 1. Therefore, the estimated naphthalene concentrations meet the thresholds in Table 1 and the Policy criteria for direct contact by a factor of eight. It is highly unlikely that naphthalene concentrations in the soil, if any, exceed the threshold.

Objections to Closure and Responses

- In a letter dated October 9, 2014, the County directed the Responsible Party to install at least one groundwater monitoring well to 75 feet below ground surface, the depth of the CPT-1 groundwater sample collected in April 2013 that indicated detectable total petroleum hydrocarbons as gasoline (TPHg), ethylbenzene and xylenes.
RESPONSE: The State Board believes the Site meets the Policy criterion for closure. However, we will agree with the installation of one groundwater monitoring well to evaluate the validity of the groundwater results obtained from CPT-1.

7-Eleven #24815
6180 Auburn Boulevard, Citrus Heights
Claim No: 18030

February 2015

Recommendation

The State Board agrees with the County direction and recommends that one groundwater monitoring well be installed and sampled to determine the validity of the CPT-1 results. If results are favorable, pursue closure.

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