

## 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.: Not applicable

Former Agency Name: Los Angeles County Department of Public Works (Prior to 5/16/2013)	Address: 900 South Fremont Avenue Alhambra, CA 91803-1331
Former Agency Caseworker: Ms. Kattya Batres Rinze	Case No.: 001500-037115

#### Case Information

USTCF Claim No.: None	Global ID: T10000001483
Site Name: Arco Facility 1369	Site Address: 411 West Palmdale Boulevard Palmdale, CA 93551 (Site)
Responsible Party: Atlantic Richfield Company Attention: Mr. Sergio Morescalchi	Address: 4 Centerpointe Drive La Palma, CA 90623-1066
USTCF Expenditures to Date: Not applicable	Number of Years Case Open: 6

URL: [http://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=T10000001483](http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T10000001483)

#### 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. Highlights of the Conceptual Site Model (CSM) upon which the evaluation of the case has been made are as follows:

The release at this Site was discovered when the dispenser and line upgrade activities were conducted in September 2008. The amount of impacted soil removed from the Site was not reported. The release is limited to soil only.

The Site is an operating gasoline service station. All adjacent lots are developed for commercial use. No public supply wells or surface water bodies are located within 1,000 feet of the Site. Groundwater has not been encountered at the Site to a maximum explored depth of 106 feet below ground surface (bgs). Groundwater is estimated to be greater than 500 feet bgs near the Site with a groundwater flow direction toward the northwest.

Arco Facility 1369  
411 West Palmdale Avenue, Palmdale, Los Angeles County

In 2012, a subsurface geophysical investigation to locate all conductive and non-conductive underground utility lines and site assessment to verify the lateral and vertical extent of impacted soil were performed. Approximately 5.2 cubic yards of soil were removed during the site assessment. Historically, petroleum constituents have mostly been non-detect. The most recent soil data collected in 2012 indicate that petroleum constituents were all non-detect, except for a few detections of diesel range organic at well below 100 mg/kg and one estimated low detection of toluene, xylenes, methyl tert-butyl ether, and tert-butyl alcohol.

Residual petroleum constituents are limited to soil and vertical and horizontal limits of the plume are defined. Remedial actions have been implemented and further remediation would be ineffective and expensive. Any remaining petroleum constituents do not pose significant risk to human health, safety, or the environment.

### Rationale for Closure under the Policy

- General Criteria – Site **MEETS ALL EIGHT GENERAL CRITERIA** under the Policy.
- Petroleum Vapor Intrusion to Indoor Air Criteria – Site meets the **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.
- Direct Contact and Outdoor Air Exposure Criteria – 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.

### 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.

Prepared By: Trinh Pham  
Trinh Pham  
Water Resource Control Engineer

3/4/14

Date

Reviewed By: George Lockwood  
George Lockwood, PE#59556  
Senior Water Resource Control Engineer

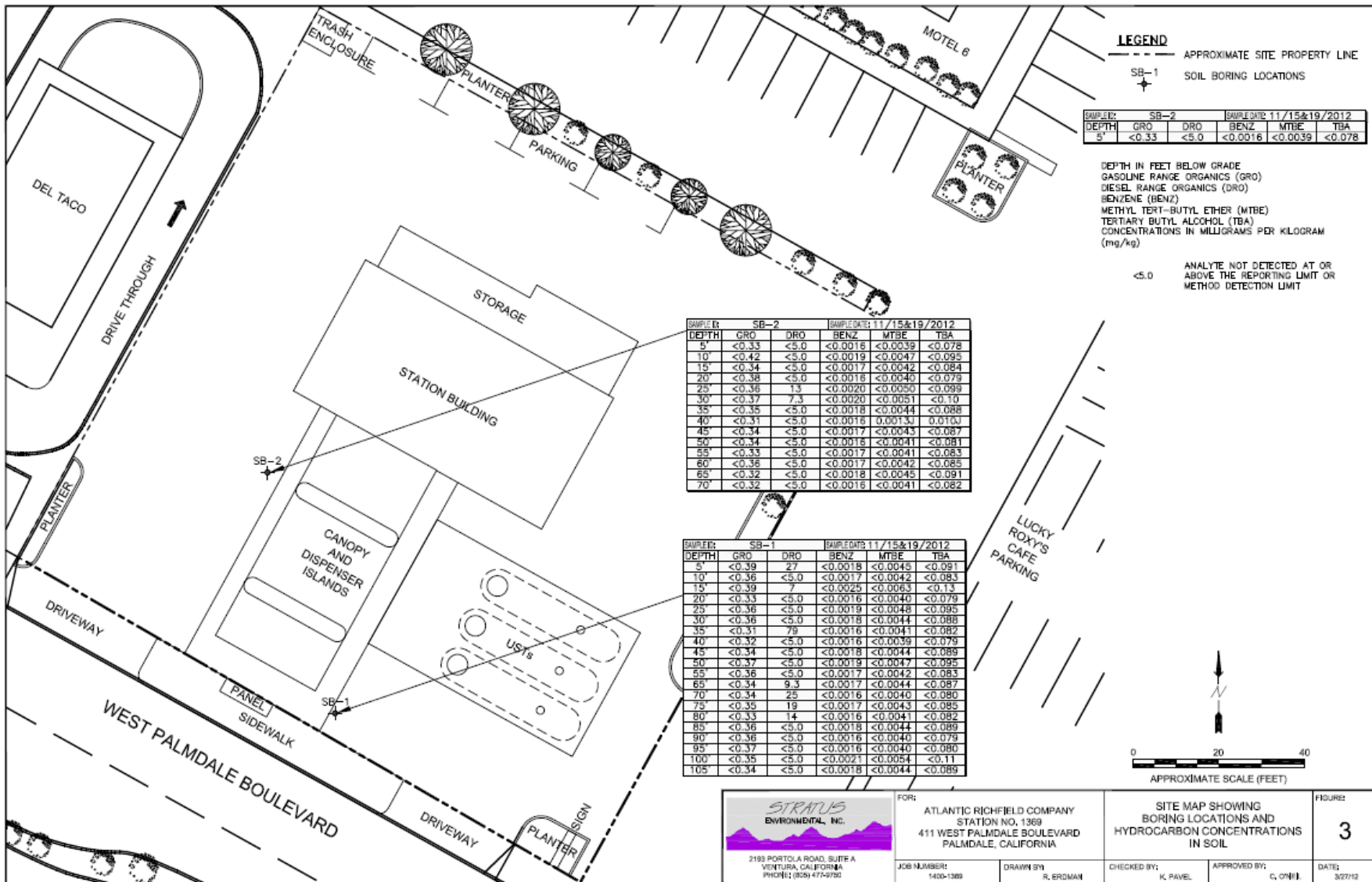
3/4/14

Date



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 411 West Palmdale Avenue, Palmdale, Los Angeles County

**SITE PLAN**



**SITE PLAN SHOWING HISTORICAL SOIL DATA**

