

State Water Resources Control Board

UST CASE CLOSURE REVIEW SUMMARY REPORT

Current Agency Information

Agency Name: State Water Resources Control Board (State Board)	Address: 1001 I Street Sacramento, CA 95814
Agency Caseworker: Matthew Cohen	Case No.: None

Former Agency Information

Agency Name: City of Los Angeles (City)	Address: 900 South Fremont Avenue Alhambra, CA 91803
Agency Caseworker: Eloy Luna	Case No.: TT23169

Case Information

USTCF Claim No.: 18921	GeoTracker Global ID: T0603782372
Site Name: Brumfields Body & Fenders Shop	Site Address: 7815 South Main Street Los Angeles, CA 90003
Responsible Party: Brumfields Body & Fender Shop Attn: Aurelia Brumfield	Address: Private Address
USTCF Expenditures to Date: \$536,494	Number of Years Case Open: 23

URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603782372

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 all of the required criteria of the Policy. A summary evaluation of compliance with the Policy is shown in **Attachment 1: Compliance with State Water Board Policies and State Law**. The Conceptual Site Model upon which the evaluation of the case has been made is described in **Attachment 2: Summary of Basic Case Information (Conceptual Site Model)**. Highlights of the case follow:

This case is an auto service facility. An unauthorized release was reported in March 1991 following the removal of two gasoline USTs in February 1991. An unknown volume of impacted soil was excavated in 1991. Soil vapor extraction was conducted between September 2010 and September 2012, which reportedly removed 36,809 pounds of total petroleum hydrocarbons as gasoline (TPHg). The rate of TPHg removal in September 2012 was 2.7 pounds per day. No groundwater monitoring wells have been installed. This is a soil only case based on soil analytical data.

The petroleum release is limited to the soil. According to data available in GeoTracker, there are no supply wells regulated by the California Department of Public Health or surface water bodies within 1,000 feet of the Site. No other water supply wells have been identified within 1,000 feet of

the Site in files reviewed. Water is provided to water users near the Site by the Los Angeles Department of Water and Power.

Rationale for Closure under the Policy

- General Criteria: The case meets all eight Policy general criteria.
- Groundwater Specific Criteria: The case meets Policy criteria. This is a soil only case. There are not sufficient mobile constituents (leachate, vapors, or light non-aqueous liquids [LNAPL]) to cause groundwater to exceed the groundwater criteria in this Policy.
- Vapor Intrusion to Indoor Air: The case meets Policy Criterion 2b. Although no document titled "Risk Assessment" was found in the files reviewed, a professional assessment of site-specific risk from exposure through the vapor intrusion pathway was performed by Fund staff. The assessment found that there is no significant risk of petroleum vapors adversely affecting human health. Soil contamination was removed by excavation and soil vapor extraction.
- 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.

Objections to Closure and Responses

According to the letter dated 11/27/12 in GeoTracker, the County concurs with closure pending vapor well abandonment.

RESPONSE: Well abandonment report was uploaded to GeoTracker on 07/24/13.

Determination

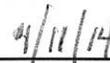
Based on the review performed in accordance with Health & Safety Code Section 25299.39.2 subdivision (a), the Fund Manager has determined that closure of the case is appropriate.

Recommendation for Closure

Based on available information, residual petroleum hydrocarbons at the Site do not pose a significant risk to human health, safety, or the environment, and the case meets the requirements of the Policy. Accordingly, the Fund Manager recommends that the case be closed. The State Water Board is conducting public notification as required by the Policy. The County has the regulatory responsibility to supervise the abandonment of monitoring wells.



Lisa Babcock, P.G. 3939, C.E.G. 1235



Date

Prepared by: Kirk Larson, P.G.

ATTACHMENT 1: COMPLIANCE WITH STATE WATER BOARD POLICIES AND STATE LAW

The case complies with the State Water Resources Control Board policies and state law. Section 25296.10 of the Health and Safety Code requires that sites be cleaned up to protect human health, safety, and the environment. Based on available information, any residual petroleum constituents at the Site do not pose significant risk to human health, safety, or the environment.

The case complies with the requirements of the Low-Threat Underground Storage Tank (UST) Case Closure Policy as described below.¹

<p>Is corrective action consistent with Chapter 6.7 of the Health and Safety Code and implementing regulations? The corrective action provisions contained in Chapter 6.7 of the Health and Safety Code and the implementing regulations govern the entire corrective action process at leaking UST sites. If it is determined, at any stage in the corrective action process, that UST site closure is appropriate, further compliance with corrective action requirements is not necessary. Corrective action at this site has been consistent with Chapter 6.7 of the Health and Safety Code and implementing regulations and, since this case meets applicable case-closure requirements, further corrective action is not necessary, unless the activity is necessary for case closure.</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>Have waste discharge requirements or any other orders issued pursuant to Division 7 of the Water Code been issued at this case?</p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>If so, was the corrective action performed consistent with any order?</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA</p>
<p><u>General Criteria</u> General criteria that must be satisfied by all candidate sites:</p> <p>Is the unauthorized release located within the service area of a public water system?</p> <p>Does the unauthorized release consist only of petroleum?</p> <p>Has the unauthorized (“primary”) release from the UST system been stopped?</p> <p>Has free product been removed to the maximum extent practicable?</p> <p>Has a conceptual site model that assesses the nature, extent, and mobility of the release been developed?</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>

¹ Refer to the Low-Threat Underground Storage Tank Case Closure Policy for closure criteria for low-threat petroleum UST sites.
http://www.waterboards.ca.gov/board_decisions/adopted_orders/resolutions/2012/rs2012_0016atta.pdf

<p>Has secondary source been removed to the extent practicable?</p> <p>Has soil or groundwater been tested for MTBE and results reported in accordance with Health and Safety Code Section 25296.15?</p> <p>Nuisance as defined by Water Code section 13050 does not exist at the Site?</p> <p>Are there unique site attributes or site-specific conditions that demonstrably increase the risk associated with residual petroleum constituents?</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p><u>Media-Specific Criteria</u> Candidate sites must satisfy all three of these media-specific criteria:</p> <p>1. Groundwater: To satisfy the media-specific criteria for groundwater, the contaminant plume that exceeds water quality objectives must be stable or decreasing in areal extent, and meet all of the additional characteristics of one of the five classes of sites:</p> <p>Is the contaminant plume that exceeds water quality objectives stable or decreasing in areal extent?</p> <p>Does the contaminant plume that exceeds water quality objectives meet all of the additional characteristics of one of the five classes of sites?</p> <p>If YES, check applicable class: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5</p> <p>For sites with releases that have not affected groundwater, do mobile constituents (leachate, vapors, or light non-aqueous phase liquids) contain sufficient mobile constituents to cause groundwater to exceed the groundwater criteria?</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA</p>
<p>2. Petroleum Vapor Intrusion to Indoor Air: The site is considered low-threat for vapor intrusion to indoor air if site-specific conditions satisfy all of the characteristics of one of the three classes of sites (a through c) or if the exception for active commercial fueling facilities applies.</p> <p>Is the Site an active commercial petroleum fueling facility? Exception: Satisfaction of the media-specific criteria for petroleum vapor intrusion to indoor air is not required at active commercial petroleum fueling facilities, except in cases where release characteristics can be reasonably believed to pose an unacceptable health risk.</p> <p>a. Do site-specific conditions at the release site satisfy all of the applicable characteristics and criteria of scenarios 1 through 3 or all of the applicable characteristics and criteria of scenario 4? If YES, check applicable scenarios: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4</p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA</p>

<p>b. Has a site-specific risk assessment for the vapor intrusion pathway been conducted and demonstrates that human health is protected to the satisfaction of the regulatory agency?</p> <p>c. As a result of controlling exposure through the use of mitigation measures or through the use of institutional or engineering controls, has the regulatory agency determined that petroleum vapors migrating from soil or groundwater will have no significant risk of adversely affecting human health?</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA</p>
<p>3. Direct Contact and Outdoor Air Exposure: The Site is considered low-threat for direct contact and outdoor air exposure if site-specific conditions satisfy one of the three classes of sites (a through c).</p> <p>a. Are maximum concentrations of petroleum constituents in soil less than or equal to those listed in Table 1 for the specified depth below ground surface (bgs)?</p> <p>b. Are maximum concentrations of petroleum constituents in soil less than levels that a site specific risk assessment demonstrates will have no significant risk of adversely affecting human health?</p> <p>c. As a result of controlling exposure through the use of mitigation measures or through the use of institutional or engineering controls, has the regulatory agency determined that the concentrations of petroleum constituents in soil will have no significant risk of adversely affecting human health?</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA</p>

ATTACHMENT 2: SUMMARY OF BASIC CASE INFORMATION (Conceptual Site Model)

Site Location/History

- This Site is on the northwest corner of the intersection of South Main Street and East 79th Street and an auto service facility.
- The Site is bounded by residences to the west, a church to the north, businesses across South Main Street to the east, and businesses across West 79th Street to the south.
- A Site map showing the location of the former USTs and soil sample locations is provided at the end of this document (Gaston & Associates, 2012).
- Nature of Contaminants of Concern: Petroleum hydrocarbons only.
- Source: UST system.
- Date reported: March 1991.
- Status of Release: USTs removed.

Tank Information

Tank No.	Size in Gallons	Contents	Closed in Place/ Removed/Active	Date
1,2	750	Gasoline	Removed	February 1991

Receptors

- GW Basin: Coastal Plain of Los Angeles - Central.
- Beneficial Uses: Los Angeles Regional Water Quality Control Board (Regional Water Board) Basin Plan lists agricultural, municipal, domestic, industrial service and process supply.
- Land Use Designation: Aerial photograph available on GeoTracker indicates mixed residential and commercial land use in the vicinity of the Site.
- Public Water System: Los Angeles Department of Water and Power.
- Water District: Metropolitan Water District of Southern California.
- Distance to Nearest Supply Well: According to data available in GeoTracker, there are no public supply wells regulated by the California Department of Public Health within 1,000 feet of the Site. No other water supply wells were identified within 1,000 feet of the Site in the files reviewed.
- Distance to Nearest Surface Water: There is no identified surface water within 1,000 feet of the Site.

Geology/Hydrogeology

- Stratigraphy: The Site is underlain by interbedded and intermixed gravel, sand, silt, and clay.
- Maximum Sample Depth: 88 feet below ground surface (bgs).
- Estimated Groundwater Depth: 80 to 100 feet bgs (Gaston & Associates, 2012).
- Saturated Zones(s) Studied: Not applicable.
- Appropriate Screen Interval: Not applicable.
- Groundwater Flow Direction: Unknown.

Monitoring Well Information: No wells.

Remediation Summary

- Free Product: None reported in GeoTracker.
- Soil Excavation: An unknown volume of impacted soil was excavated in 1991.
- In-Situ Soil Remediation: Soil vapor extraction was conducted between September 2010 and September 2012, which reportedly removed 36,809 pounds of TPHg. The rate of TPHg removal in September 2012 was 2.7 pounds per day.
- Groundwater Remediation: None conducted.

Most Recent Concentrations of Petroleum Constituents in Soil

Constituent	Maximum 0-5 feet bgs* [mg/kg (date) sample-depth]	Maximum 5-10 feet bgs* [mg/kg (date) sample-depth]
Benzene	<0.001 (09/06/12) CB-1-5'	<0.001 (09/06/12) CB-1-10'
Ethylbenzene	<0.001 (09/06/12) CB-1-5'	<0.001 (09/06/12) CB-1-10'
Naphthalene	<0.005 (09/06/12) CB-1-5'	<0.005 (09/06/12) CB-1-10'
PAHs	NA	NA

NA: Not Analyzed, Not Applicable or Data Not Available

mg/kg: Milligrams per kilogram, parts per million

<: Not detected at or above stated reporting limit

PAHs: Polycyclic aromatic hydrocarbons

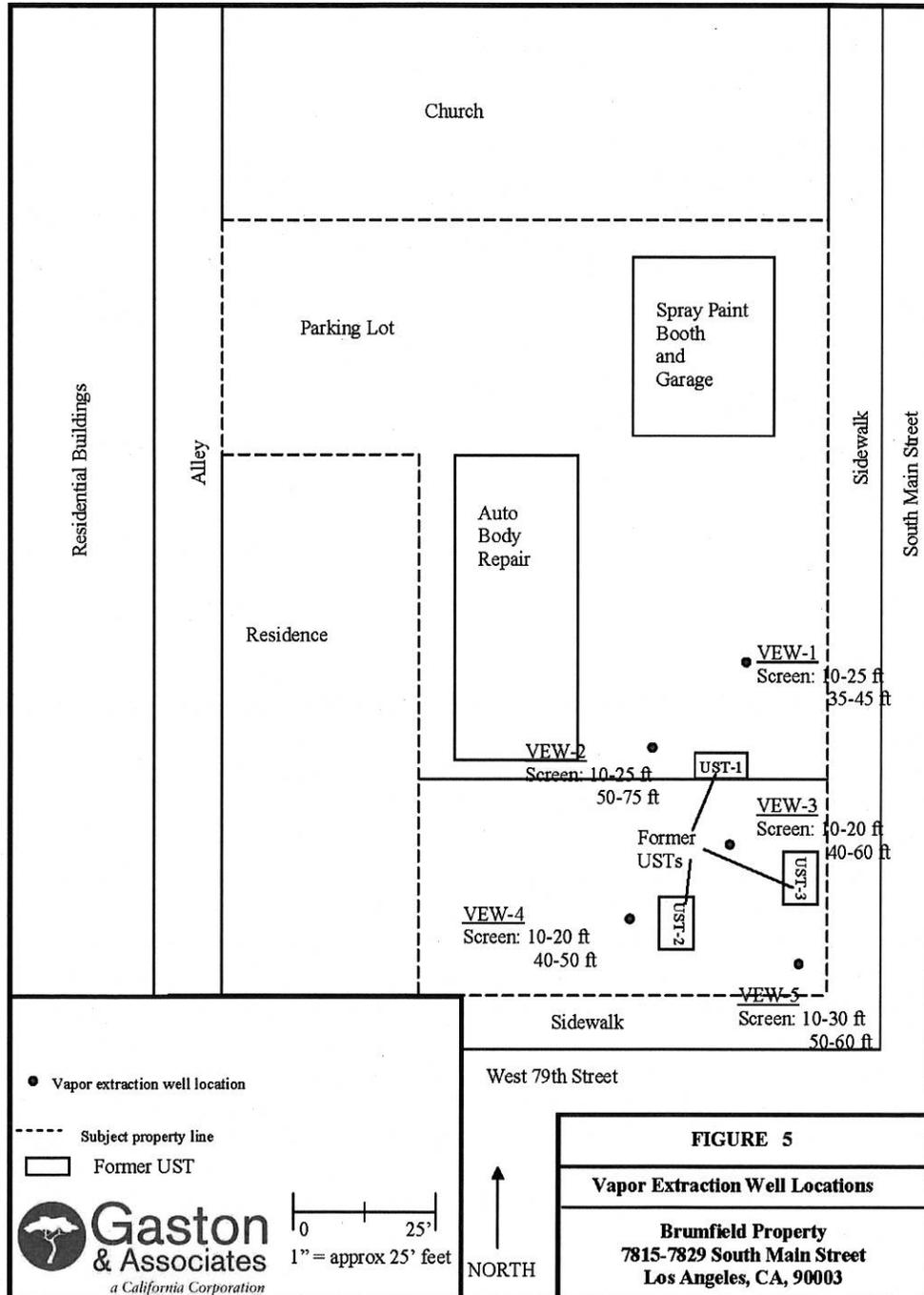
*Based on the confirmation samples collected in September 2012, see table attached

Most Recent Concentrations of Petroleum Constituents in Groundwater: No wells.

Groundwater Trends: No wells.

Evaluation of Current Risk

- Estimate of Hydrocarbon Mass in Soil: Reportedly, 5,260 gallons of gasoline was leaked from two 7,500 gallon USTs.
- Soil/Groundwater tested for methyl tert-butyl ether (MTBE): Yes.
- Oxygen Concentrations in Soil Vapor: None reported.
- Plume Length: Soil only case.
- Plume Stable or Decreasing: Soil only case.
- Contaminated Zone(s) Used for Drinking Water: No.
- Groundwater Risk from Residual Petroleum Hydrocarbons: The case meets Policy criteria. This is a soil only case. There are not sufficient mobile constituents (leachate, vapors, or light non-aqueous liquids [LNAPL]) to cause groundwater to exceed the groundwater criteria in this Policy.
- Indoor Vapor Risk from Residual Petroleum Hydrocarbons: The case meets Policy Criterion 2b. Although no document titled "Risk Assessment" was found in the files reviewed, a professional assessment of site-specific risk from exposure through the vapor intrusion pathway was performed by Fund staff. The assessment found that there is no significant risk of petroleum vapors adversely affecting human health. Soil contamination was removed by excavation and soil vapor extraction.
- Direct Contact Risk from Residual Petroleum Hydrocarbons: 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.



Results of Soil Confirmation Borings
 7815-7829 South Main Street

Former Brumfield Body & Fender Shop
 Los Angeles, CA

TABLE 8
SOIL ANALYTICAL TESTING RESULTS
 (all concentrations in mg/kg)
 September 6-7, 2012

SAMPLE ID	TPH-g	8260B BTEX/MTBE							
		B	T	E	X	MTBE	TBA	DIPE	TAME
CB-1-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND
CB-1-10'	ND	ND	ND	ND	ND	ND	ND	ND	ND
CB-1-15'	600	ND	ND	0.027	0.36	ND	ND	ND	ND
CB-1-20'	1200	0.78	3.0	3.2	13.4	ND	ND	ND	ND
CB-1-25'	7.0	0.038	0.034	0.040	0.28	ND	ND	ND	ND
CB-1-30'	8.0	0.26	0.064	0.12	0.180	ND	ND	ND	ND
CB-1-35'	2.5	ND	ND	ND	0.025	ND	ND	ND	ND
CB-1-40'	3.5	0.24	0.51	0.082	0.44	ND	ND	ND	ND
CB-1-45'	2.5	0.72	0.36	ND	0.044	ND	ND	ND	ND
CB-1-50'	1.0	0.25	0.022	ND	ND	ND	ND	ND	ND
CB-1-55'	0.95	0.30	ND	ND	ND	ND	ND	ND	ND
CB-1-60'	ND	ND	ND	ND	ND	ND	ND	ND	ND
CB-1-65'	ND	ND	ND	ND	ND	ND	ND	ND	ND
CB-1-70'	ND	ND	ND	ND	ND	ND	ND	ND	ND
CB-1-75'	ND	ND	ND	ND	ND	ND	ND	ND	ND
CB-1-80'	ND	ND	ND	ND	ND	ND	ND	ND	ND
CB-1-85'	ND	ND	ND	ND	ND	ND	ND	ND	ND

