

State Water Resources Control Board

UST CASE CLOSURE REVIEW SUMMARY REPORT – CLOSURE

Agency Information

Agency Name: North Coast Regional Water Quality Control Board (Regional Water Board)	Address: 5550 Skylane Blvd., Suite A Santa Rosa, CA 95403
Agency Caseworker: Robert Dickerson	Case No.: 1TMC543

Case Information

USTCF Claim No.: 17597	GeoTracker Global ID: T0604502786
Site Name: Aragons Muffler Shop	Site Address: 45021 Highway 101 Laytonville, CA 95454
Responsible Party: Laytonville Auto Parts, Assignee C/O: Evonne Elliott	Address: PO Box 3039 Rohnert Park, CA 94927
USTCF Expenditures to Date: \$791,664	Number of Years Case Open: 11

To view all public documents for this case available on GeoTracker use the following URL.

URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0604502786

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. Highlights of the case follow:

This case is an automotive repair facility and associated residence. An unauthorized release was reported in November 2002 following the removal of three USTs (three gasoline and diesel) and the closure of one waste oil tank in place. One active fuel oil tank remains. Oxygen injection was conducted between August 2007 and 2010 into 14 injection wells in shallow groundwater. High vacuum dual phase extraction was conducted for 30 days between August and December 2010, which reportedly removed 1,252 pounds of total petroleum hydrocarbons as gasoline (TPHg) and 5,070 gallons of contaminated groundwater. Since 2004, 19 groundwater monitoring wells have been installed and monitored; five wells have been destroyed. According to groundwater data, water quality objectives have been achieved or nearly achieved.

The petroleum release is limited to the soil and shallow groundwater. According to data available in GeoTracker, there are no public water supply wells or surface water bodies within 1,000 feet of the Site. 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 impacted 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 2. The contaminant plume that exceeds water quality objectives is less than 250 feet in length. There is no free product. The nearest water supply well or surface water body is greater than 1,000 feet from the defined plume boundary. The dissolved concentration of benzene is less than 3,000 µg/L and the dissolved concentration of methyl tert-butyl ether (MTBE) is less than 1,000 micrograms per liter (µg/L).
- Vapor Intrusion to Indoor Air: The case meets Policy Criterion 2a by Scenario 3a. The maximum benzene concentration in groundwater is less than 100 µg/L. The minimum depth to groundwater is greater than 5 feet, overlain by soil containing less than 100 milligrams per kilogram (mg/kg) of TPH.
- 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

According to the Path to Closure page (dated 8/6/2014) in GeoTracker, the Regional Water Board staff opposes closure because:

- Secondary source remains.
RESPONSE: Secondary source according to the Policy has been removed by excavation and active remediation.
- The case does not meet Policy vapor criteria.
RESPONSE: The case meets Policy Criterion 2a by Scenario 3a.

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.

Aragons Muffler Shop
45021 Highway 101, Laytonville
Claim No: 17597

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. Mendocino County has the regulatory responsibility to supervise the abandonment of monitoring wells.

Lisa Babcock

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

3/17/15

Date

Prepared by: Walter Bahm, P.E.