

State Water Resources Control Board

UST CASE CLOSURE SUMMARY

Agency Information

Agency Name: County of Sonoma	Address: 475 Aviation Blvd., Suite 220 Santa Rosa, CA 95403
Agency Caseworker: Ms. Becky Vermeer	Case No.: 00002445

Case Information

USTCF Claim No.: 336	Global ID: T0609700947
Site Name: BP Gas Station	Site Address: 18017 Sonoma Highway, Sonoma, CA 95476 (Site)
Petitioner: Mr. Jeffrey Freiberg Care of: INCORE Corp.	Address: P.O. Box 254, Sonoma, CA 95476
USTCF Expenditures to Date: \$571,875	Number of Years Case Open: 23

URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0609700947

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. 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 Site Information**. Highlights of the Conceptual Site Model of the case follow:

The release at 18017 Sonoma Highway, Sonoma, CA, was discovered when four underground storage tanks (UST) were removed in 1989 and 1999 and replaced with two USTs that were removed in 2003. No known USTs remain at the Site. During the 2003 UST removal, approximately 1,818 tons of soil was excavated, over-excavated, and disposed. An additional approximately 348 tons of soil was removed in 2005. In 2001, air sparge/soil vapor extraction was determined not to be a feasible method for remediation. A pump and treat system operated from 2005 to 2008; approximately 867,000 gallons of impacted water was treated. The system was shut down because of diminishing influent concentrations.

The petroleum release is limited to the shallow soil and groundwater. The nearest public supply well regulated by the California Department of Public Health is located approximately 975 feet southwest (generally downgradient) of the Site. A domestic well is located approximately 500 feet southwest (apparently used for filling swimming facilities.) Water is provided to water users near the Site by the Valley of the Moon Water District. The affected groundwater is not currently being used as a source of drinking water or for any other designated beneficial use, and it is highly unlikely that the affected groundwater will be used as a source of drinking water or for any other beneficial use in the foreseeable

future. Public supply wells are usually constructed with competent sanitary seals and intake screens that are in deeper more protected aquifers. Remaining petroleum constituents are limited, stable and declining. Remedial actions have been implemented and further remediation would be ineffective and expensive. Additional assessment/monitoring will not likely change the conceptual model. 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.**
- Groundwater Media-Specific Criteria – Site meets the criterion in **CLASS 5.** 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 and safety and to the environment and water quality objectives (WQOs) will be achieved within a reasonable time frame.
- Petroleum Vapor Intrusion to Indoor Air Criteria – Site meets the criterion in **CLASS a. SCENARIO 3.** Site-specific conditions satisfy Scenario 3 as applicable.
- Direct Contact and Outdoor Air Exposure Criteria – Site meets the criterion in **CLASS a.** Maximum concentrations of petroleum constants in soil are less than or equal to those listed in Table 1. The estimated naphthalene concentrations in soil are less than the thresholds in Table 1 of the Policy for direct contact. It is unlikely that naphthalene concentrations in soil, if any, exceed the threshold.

Objections to Closure

Sonoma County staff objected to UST case closure because:

1. Additional work is needed to fully characterize the Site.

Response: The Site has been sufficiently assessed/monitored and additional assessment/monitoring won't likely change the conceptual model. Remedial actions have been implemented and further remediation would be ineffective and expensive. Remaining petroleum constituents are limited, stable and declining. To the extent limited areas of groundwater may exceed water quality objectives for certain petroleum constituents, the impact will not unreasonably impair beneficial uses even if the period of impairment is decades to hundreds of years. Shallow affected groundwater is not currently being used as a source of drinking water or for any other designated beneficial use and it is highly unlikely, in part due to standard supply well construction practices, that the affected groundwater will be used as a source of drinking water or for any other beneficial use in the foreseeable future.

2. Residual soil and groundwater contamination persist at the Site.

Response: Site conditions demonstrate that the residual petroleum constituents in soil and groundwater are protective of human health. (See Attachments 1 and Attachment 2 for further discussion.)