

State Water Resources Control Board

UNDERGROUND STORAGE TANK (UST) CASE CLOSURE SUMMARY

Agency Information

Agency Name: Colorado River Basin Regional Water Quality Control Board	Address: 73-720 Fred Waring Dr. Ste 100 Palm Desert, CA 92260
Agency Caseworker: Jose Cortez	Case No.: 7DODT22430007

Case Information

UST Cleanup Fund (Fund) Claim No.: N/A	Global ID: T060256740
Site Name: NAF El Centro (UST Site 114)	Site Address: 1605 Third St., Area 8 Between Taxiway ("E" and "A" Street) El Centro, CA 92243
Responsible Party: United States Department of the Navy Attn: Mr. Robert Fischer	Address: 1605 Third Street NAF El Centro, CA 92243
Fund Expenditures to Date: N/A	Number of Years Case Open: 26

GeoTracker Case Record:

https://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T060256740

Summary

This case has been proposed for closure by the State Water Resources Control Board at the request of the Colorado River Basin Regional Water Quality Control Board, which concurs with closure.

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.

The site operates as an active Naval Base in Imperial County. The release was discovered when elevated petroleum constituents were identified during the removal of a 1,400-gallon diesel tank in 1993. In May 2000 a total of 277 tons of impacted soil were over-excavated to twelve feet below ground surface (bgs) and disposed off-site. Total

E. JOAQUIN ESQUIVEL, CHAIR | EILEEN SOBECK, EXECUTIVE DIRECTOR

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petroleum hydrocarbons as gasoline (TPH-g) and as diesel (TPH-d) were detected in confirmation soil samples collected from the north and east boundaries of the remedial over-excavation. Additional soil sampling in 2015 indicated residual petroleum impacted soil was limited in areal extent to the vicinity of the former USTs. Grab groundwater samples obtained in December 2015 indicated elevated TPH-g and TPH-d were present, but that water quality objectives have been met for benzene, toluene, ethylbenzene, xylenes, and methyl-tertiary butyl ether.

Residual petroleum constituents in soil is limited in areal extent and the site is paved, preventing accidental contact. Remaining petroleum constituents are limited, stable, and decreasing. Additional assessment would be unnecessary and will not likely change the conceptual model. Any remaining petroleum constituents do not pose significant risk to human health, safety, or the environment under current conditions.

Rationale for Closure Under the Policy

- General Criteria – Site **MEETS ALL EIGHT GENERAL CRITERIA** under the Policy
- Groundwater Media-Specific Criteria – Site **meets the criteria in Class 1**. The contaminant plume that exceeds water quality objectives is less than 100 feet in length. There is no free product. The nearest existing water supply well or surface water body is greater than 250 feet from the defined plume boundary.
- Petroleum Vapor Intrusion to Indoor Air – Site **meets Criteria 2 (a), Scenario 3**. As applicable, the extent of the bioattenuation zone, oxygen concentrations in soil gas, concentrations of total petroleum hydrocarbons as gasoline and diesel combined in soil, and dissolved concentrations of benzene in groundwater meet the Policy.
- Direct Contact and Outdoor Air Exposure – 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 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% 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.

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Recommendation for Closure

The corrective action performed at this Site ensures the protection of human health, safety, and the environment. The corrective action performed at this Site is consistent with chapter 6.7 of division 20 of the Health and Safety Code, implementing regulations, applicable state policies for water quality control and applicable water quality control plans. Case closure is recommended.

Reviewed By: 
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Senior Engineering Geologist
Division of Water Quality



12/17/2019
Date