STATE OF CALIFORNIA STATE WATER RESOURCES CONTROL BOARD

ORDER WQ 2013-0022 - UST

In the Matter of Underground Storage Tank Case Closure

Pursuant to Health and Safety Code Section 25299.39.2 and the Low Threat Underground Storage Tank Case Closure Policy

BY THE EXECUTIVE DIRECTOR1.

Pursuant to Health and Safety Code section 25299.39.2, the Manager of the Underground Storage Tank Cleanup Fund (Fund) recommends closure of the underground storage tank (UST) case at the site listed below.² The name of the Fund claimant, the Fund claim number, the site name and the applicable site address are as follows:

Chevron Products Company
Claim No. 4900
Chevron #9-6152
1152 Avenida De Los Arboles
Ventura County Resource Management Agency

I. STATUTORY AND PROCEDURAL BACKGROUND

Section 25299.39.2 directs the Fund manager to review the case history of claims that have been active for five years or more (five-year review), unless there is an objection from the UST owner or operator. This section further authorizes the Fund Manager to make recommendations to the State Water Resources Control Board (State Water Board) for closure of a five-year-review case if the UST owner or operator approves. In response to a recommendation by the Fund Manager, the State Water Board, or in certain cases the State Water Board Executive Director, may close a case or require the closure of a UST case. Closure of a UST case is appropriate where the corrective action ensures the protection of

¹ State Water Board Resolution No. (2012-0061) delegates to the Executive Director the authority to close or require the closure of any UST case if the case meets the criteria found in the State Water Board's Low Threat Underground Storage Tank Case Closure Policy adopted by State Water Board Resolution No. 2012-0016.

² Unless otherwise noted, all references are to the Health and Safety Code.

human health, safety, and the environment and where the corrective action is consistent with:

- 1) Chapter 6.7 of Division 20 of the Health and Safety Code and implementing regulations;
- 2) Any applicable waste discharge requirements or other orders issued pursuant to Division 7 of the Water Code; 3) All applicable state policies for water quality control; and 4) All applicable water quality control plans.

The Fund Manager has completed a five-year review of the UST case identified above, and recommends that this case be closed. The recommendation is based upon the facts and circumstances of this particular UST case. A UST Case Closure Review Summary Report has been prepared for the case identified above and the bases for determining compliance with the Water Quality Control Policy for Low-Threat Underground Storage Tank Case Closures (Low-Threat Closure Policy or Policy) are explained in the Case Closure Review Summary Report.

A. Low-Threat Closure Policy

In State Water Board Resolution No. 2012-0016, the State Water Board adopted the Low Threat Closure Policy. The Policy became effective on August 17, 2012. The Policy establishes consistent statewide case closure criteria for certain low-threat petroleum UST sites. In the absence of unique attributes or site-specific conditions that demonstrably increase the risk associated with residual petroleum constituents, cases that meet the general and media-specific criteria in the Low-Threat Closure Policy pose a low threat to human health, safety and the environment and are appropriate for closure under Health and Safety Code section 25296.10. The Policy provides that if a regulatory agency determines that a case meets the general and media-specific criteria of the Policy, then the regulatory agency shall notify responsible parties and other specified interested persons that the case is eligible for case closure. Unless the regulatory agency revises its determination based on comments received on the proposed case closure, the Policy provides that the agency shall issue a closure letter as specified in Health and Safety Code section 25296.10. The closure letter may only be issued after the expiration of the 60-day comment period, proper destruction or maintenance of monitoring wells or borings, and removal of waste associated with investigation and remediation of the site.

Health and Safety Code section 25299.57, subdivision (I)(1) provides that claims for reimbursement of corrective action costs that are received by the Fund more than 365 days after the date of a closure letter or a Letter of Commitment, whichever occurs later, shall not be reimbursed unless specified conditions are satisfied. A Letter of Commitment has already been issued on the claim subject to this order and the respective Fund claimant, so the 365-day

timeframe for the submittal of claims for corrective action costs will start upon the issuance of the closure letter.

II. FINDINGS

Based upon the UST Case Closure Review Summary Report prepared for the case attached hereto, the State Water Board finds that corrective action taken to address the unauthorized release of petroleum at the UST release site identified as:

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Chevron #9-6152

ensures protection of human health, safety and the environment and is consistent with Chapter 6.7 of Division 20 of the Health and Safety Code and implementing regulations, the Low-Threat Closure Policy and other water quality control policies and applicable water quality control plans.

Pursuant to the Low-Threat Closure Policy, notification has been provided to all entities that are required to receive notice of the proposed case closure, a 60-day comment period has been provided to notified parties, and any comments received have been considered by the Board in determining that the case should be closed.

The UST case identified above may be the subject of orders issued by the Regional Water Quality Control Water Board (Regional Water Board) pursuant to Division 7 of the Water Code. Any orders that have been issued by the Regional Water Board pursuant to Division 7 of the Water Code, or directives issued by a Local Oversight Program agency for this case should be rescinded to the extent they are inconsistent with this Order.

III. ORDER

IT IS THEREFORE ORDERED that:

A. The UST case identified in Section II of this Order, meeting the general and mediaspecific criteria established in the Low-Threat Closure Policy, be closed in accordance with the following conditions and after the following actions are complete. Prior to the issuance of a closure letter, the Fund claimant is ordered to:

- 1. Properly destroy monitoring wells and borings unless the owner of real property on which the well or boring is located certifies that the wells or borings will be maintained in accordance with local or state requirements;
- 2. Properly remove from the site and manage all waste piles, drums, debris, and other investigation and remediation derived materials in accordance with local or state requirements; and
- 3. Within six months of the date of this Order, submit documentation to the regulatory agency overseeing the UST case identified in Section II of this Order that the tasks in subparagraphs (1) and (2) have been completed.
- B. The tasks in subparagraphs (1) and (2) of paragraph (A) are ordered pursuant to Health and Safety Code section 25296.10 and failure to comply with these requirements may result in the imposition of civil penalties pursuant to Health and Safety Code section 25299, subdivision (d)(1). Penalties may be imposed administratively by the State Water Board or Regional Water Board.
- C. Within 30 days of receipt of proper documentation from the Fund claimant that requirements in subparagraphs (1) and (2) of paragraph (A) are complete, the regulatory agency that is responsible for oversight of the UST case identified in Section II of this Order shall notify the State Water Board that the tasks have been satisfactorily completed.
- D. Within 30 days of notification from the regulatory agency that the tasks are complete pursuant to paragraph (C), the Deputy Director of the Division of Financial Assistance shall issue a closure letter consistent with Health and Safety Code section 25296.10, subdivision (g) and upload the closure letter and UST Case Closure Review Summary Report to GeoTracker.
- E. As specified in Health and Safety Code section 25299.39.2, subdivision (a) (2), corrective action costs incurred after a recommendation of closure shall be limited to \$10,000 per year unless the Board or its delegated representative agrees that corrective action in excess of that amount is necessary to meet closure requirements, or additional corrective actions are necessary pursuant to section 25296.10, subdivisions (a) and (b). Pursuant to section 25299.57, subdivision (I) (1), and except in specified circumstances,

all claims for reimbursement of corrective action costs must be received by the Fund within 365 days of issuance of the closure letter in order for the costs to be considered.

F. Any Regional Water Board or Local Oversight Program Agency directive or order that directs corrective action or other action inconsistent with case closure for the UST case identified in Section II is rescinded, but only to the extent the Regional Water Board order or Local Oversight Program Agency directive is inconsistent with this Order.

Executive Director





State Water Resources Control Board

UST CASE CLOSURE REVIEW SUMMARY REPORT

Agency Information

| Agency Name: Ventura County Resource Management Agency (County) | Address: 800 South Victoria Avenue, Ventura, CA 93009 |
|---|--|
| Agency Caseworker: Erin O'Connell | Case No.: 89015 |

Case Information

| USTCF Claim No.: 4900 | Global ID: T0611100438 | | |
|---|---|--|--|
| Site Name: Chevron #9-6152 | Site Address: 1152 Avenida De Los Arboles, | | |
| | Thousand Oaks, CA 91360 | | |
| Responsible Party: Chevron Products | Address: 6101 Bollinger Canyon Road, Blvd., | | |
| Company, Attn: Joe | BR1X#5339 | | |
| Watterson | San Ramon, CA 94583 | | |
| USTCF Expenditures to Date: \$1,305,520 | Number of Years Case Open: 23 | | |

URL: http://geotracker.waterboards.ca.gov/profile report.asp?global id=T0611100438

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 (CSM) upon which the evaluation of the case has been made is described in **Attachment 2: Summary of Basic Site Information (Conceptual Site Model)**. Highlights of the case follow:

The site is currently an active gas station, and has been used to dispense petroleum since 1962. An unauthorized release was reported in July 1983 following the removal of USTs. Since July 1989, 16 groundwater monitoring wells have been installed. Contaminated soil has been excavated and the remaining soil has been remediated using soil vapor extraction and multiphase extraction. Groundwater has been remediated by multiphase extraction and air sparging. According to groundwater data, the groundwater plume is defined and decreasing over time.

The petroleum release is limited to the shallow soil and groundwater. According to data available in GeoTracker, there are no California Department of Public Health (CDPH) regulated supply wells within 1,000 feet of the defined plume boundary. There are also no surface water bodies within 1,000 feet downgradient of the defined plume boundary. Additionally, no other water supply wells have been identified within 1,000 feet of the defined plume boundary in files reviewed. Water is provided to water users near the Site by the City of Thousand Oaks. The affected groundwater is not currently being used as a source of drinking water, and it is highly unlikely that the affected groundwater will be used as a source of drinking water in the foreseeable future. Other designated beneficial uses of impacted

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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, stable and concentrations are declining. Corrective actions have been implemented and additional corrective actions are not necessary. Any remaining petroleum hydrocarbon constituents do not pose significant risk to human health, safety or the environment.

Rationale for Closure under the Policy

- General Criteria: The case meets all eight general criteria.
- Groundwater Specific Criteria: The case meets Policy Criterion 1 by Class 4. The contaminant plume that exceeds water quality objectives (WQOs) is less than 1,000 feet in length. There is no free product and the nearest water supply well or surface water body is greater than 1,000 feet from the defined plume boundary. The dissolved concentrations of benzene and MTBE are each less than 1,000 µg/L.
- Vapor Intrusion to Indoor Air: Active Station Exemption Soil vapor evaluation is not required because site is an active commercial petroleum fueling facility.
- Direct Contact and Outdoor Air Exposure: This case meets Policy Criterion 3b. A professional
 assessment of site-specific risk from exposure shows that maximum concentrations of
 petroleum constituents in soil will have no significant risk of adversely affecting human health.
 In addition, the Site is paved and accidental access to Site soils is prevented. As an active gas
 station, any construction worker working at the Site will be prepared for potential exposure in
 their normal daily work.

Objections to Closure and Response

• The County objects to closure because the claimant has not performed confirmation soil borings. The County's September 13, 2012 letter required vertical confirmation of soil impact below the clean backfill in the area of the former waste oil USTs. The letter also required soil confirmation borings to a minimum of 60 feet below ground surface next to former soil borings B-8 and AS-4.

RESPONSE:

The case meets Policy Criteria and confirmation borings are not necessary.

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

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

Hari Patel

Prepared By:

1/28/13

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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

| 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. | ⊠ Yes □ No |
|--|-----------------|
| Have waste discharge requirements or any other orders issued pursuant to Division 7 of the Water Code been issued at this case? | □ Yes ⊠ No |
| If so, was the corrective action performed consistent with any order? | □ Yes □ No ⊠ NA |
| General Criteria General criteria that must be satisfied by all candidate sites: | |
| Is the unauthorized release located within the service area of a public water system? | ⊠ Yes □ No |
| Does the unauthorized release consist only of petroleum? | ⊠ Yes □ No |
| Has the unauthorized ("primary") release from the UST system been stopped? | ⊠ Yes □ No |
| Has free product been removed to the maximum extent practicable? | ⊠ Yes □ No □ NA |
| Has a conceptual site model that assesses the nature, extent, and mobility of the release been developed? | ⊠ Yes □ No |
| | |

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

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| Has secondary source been removed to the extent practicable? | ⊠ Yes □ No |
|---|-----------------|
| Has soil or groundwater been tested for MTBE and results reported in accordance with Health and Safety Code Section 25296.15? | ⊠ Yes □ No |
| Nuisance as defined by Water Code section 13050 does not exist at the site? | ⊠ Yes □ No |
| Are there unique site attributes or site-specific conditions that demonstrably increase the risk associated with residual petroleum constituents? | □ Yes ⊠ No |
| Media-Specific Criteria Candidate sites must satisfy all three of these media-specific criteria: | |
| 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: | |
| Is the contaminant plume that exceeds water quality objectives stable or decreasing in areal extent? | ⊠ Yes □ No □ NA |
| Does the contaminant plume that exceeds water quality objectives meet all of the additional characteristics of one of the five classes of sites? | ⊠ Yes □ No □ NA |
| If YES, check applicable class: □ 1 □ 2 □ 3 □ 4 □ 5 | |
| 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? | □ Yes □ No ⊠ NA |
| 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. | |
| 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. | ⊠ Yes □ No |
| 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? | □Yes □ No ☒ NA |
| If YES, check applicable scenarios: □ 1 □ 2 □ 3 □ 4 | |
| b. Has a site-specific risk assessment for the vapor intrusion pathway | |

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| been conducted and demonstrates that human health is protected to the satisfaction of the regulatory agency? | P ☐ Yes ☐ No ☒ NA |
|--|-------------------|
| 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? | □ Yes □ No ⊠ NA |
| 3. Direct Contact and Outdoor Air Exposure: The site is considered low-threat for direct contact and outdoor air exposure site-specific conditions satisfy one of the three classes of sites (a through c). | f |
| 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)? | ☐ Yes ☐ No ☒ NA |
| 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? | ☑ Yes □ No □ NA |
| 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? | ☐ Yes ☐ No ☒ NA |

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

Site Location/History

- This case is located at 1152 Avenida De Los Arboles, in the City of Thousand Oaks, CA, 91360 at the southwest corner of Avenida De Los Arobles and Avenida De La Plantas. The site has been an active gas station since 1962.
- The Site is bounded by Avenida De Los Arobles to the north, Avenida De La Plantas to the west, residences to the north and east, and a strip mall to the south and west.
- Site map showing the location of the former USTs, monitoring wells and groundwater level contours is provided at the end of this closure review summary.
- Nature of Contaminants of Concern: Petroleum hydrocarbons only.
- Source: UST system.
- Date reported: July 1983.
- Status of Release: UST and product piping removed and replaced.
- Free Product: 1.86 feet in monitoring well MW-4 on February 26, 1998, and has not been observed since.

Tank Information

| Tank No. | Size in Gallons | Contents | Closed in Place/ | Date |
|----------|-----------------|-----------|------------------|-----------|
| | 20 | | Removed/Active | 14 |
| 1 | 3,000 | Gasoline | Removed | July 1983 |
| 2 | 5,000 | Gasoline | Removed | July 1983 |
| 3 | 7,000 | Gasoline | Removed | July 1983 |
| 4 | 10,000 | Gasoline | Removed | July 1983 |
| 5 | 500 | Waste Oil | Removed | July 1997 |
| 6 | 1,500 | Waste Oil | Removed | July 1997 |
| 7 | 10,000 | Gasoline | Active | |
| 8 | 10,000 | Gasoline | Active | |
| 9 | 10,000 | Gasoline | Active | |

Receptors

- GW Basin: Santa Clara Calleguas Calleguas-Conejo-Conejo Valley.
- Beneficial Uses: Agricultural Supply.
- Land Use Designation: None Specified. Aerial photograph available on GeoTracker suggests commercial land use for the Site.
- Public Water System: City of Thousand Oaks,
- Distance to Nearest Supply Well: According to data available in GeoTracker, there are no
 public supply wells regulated by CDPH within 1,000 feet of the defined plume boundary, and no
 other water supply wells have been identified within 1,000 feet of the defined plume boundary in
 the files reviewed.
- Distance to Nearest Surface Water: The North Fork of Conejo Creek is greater than 1,000 feet in the downgradient direction, west from the MTBE plume boundary, as defined by the 5 µg/L MTBE Water Quality Objective (WQO) concentration contour.

Geology/Hydrogeology

- Stratigraphy: The Site is underlain by clay, clayey sand, sand and silt to 55 feet bgs, underlain by Quaternary Alluvium.
- Maximum Sample Depth: 60 feet bgs.
- Minimum Groundwater Depth: 11.12 feet bgs at monitoring well MW-16.
- Maximum Groundwater Depth: 51.12 feet bgs at monitoring well MW-2.
- Current Average Depth to Groundwater: 26 feet bgs.
- Saturated Zones(s) Studied: approximately 20 to 40 feet bgs.
- · Appropriate Screen Interval: Yes.
- Groundwater Flow Direction: West with an average gradient of 0.01 feet/foot (ft/ft).

Monitoring Well Information

| Well Designation | Date Installed | Screen Interval (feet bgs) | Depth to Water (feet bgs) (12/2/2011) |
|------------------|----------------|----------------------------|---|
| MVV-1 | July 1989 | 8 - 58 | 31.92 |
| MW-2 | July 1989 | 18 - 58 | 37.32 |
| MW-4 | July 1989 | 8 - 58 | 34.51 |
| MW-5 | June 1991 | 30 - 70 | 32.54 |
| MW-6 | June 1991 | 28 - 78 | 31.82 |
| MW-7 | June 1991 | 30 - 70 | 26.34 |
| MW-8 | May 1993 | 18 - 58 | 26.32 |
| MW-9 | May 1993 | 15 - 55 | Paved Over |
| MW-10 | May 1993 | 13 - 63 | Paved Over |
| MW-11 | February 1995 | 20 - 60 | 31.32 |
| MW-12 | November 1998 | 28 - 68 | 27.00 |
| MW-13 | July 2001 | 15 - 45 | 24.62 |
| MVV-14 | June 2003 | 10 - 45 | 26.02 |
| MW-15 | June 2003 | 10 - 45 | 24.66 |
| MW-16 | June 2003 | 8 - 43 | 19.64 |
| MW-17 | June 2003 | 10 - 45 | Paved Over |

Remedial Summary

- Free Product: 1.86 feet in monitoring well MW-4 on February 26, 1998, and has not been observed since.
- Soil Excavation: 18 cubic yards of impacted soil was removed and disposed.
- In-Situ Soil Remediation: 11,629 pounds of petroleum hydrocarbons have been removed using soil vapor extraction and multiphase extraction from 1993 to 2010. The remediation system was shut down due to low influent concentrations. The system was pulsed to confirm that there was no influent petroleum hydrocarbon concentration rebound.
- Groundwater Remediation: 15,600 gallons of impacted groundwater were removed using multiphase extraction in 2003.

Most Recent Concentrations of Petroleum Constituents in Soil *

| Constituent | Maximum 0-5 ft. bgs. [mg/kg] | Maximum 5-10 ft. bgs [mg/kg] | | |
|--------------|---------------------------------|---------------------------------|--|--|
| Benzene | NA | NA | | |
| Ethylbenzene | NA | NA | | |
| Naphthalene | NA | NA | | |
| PAHs | NA | NA | | |

NA: Not Analyzed, Not Applicable or Data Not Available after the SVE system was shut down in 2010.

mg/kg: milligrams per kilogram, parts per million

PAHs: Polycyclic aromatic hydrocarbons

*: Shallow soil impact above 10 feet bgs was never a concern in this case due to soil impact believed to be below 10 feet bgs. Soil excavation, SVE and multiphase extraction had removed most soil contamination at the site. In addition, the Site is paved and accidental access to Site soils is prevented. As an active gas station, any construction worker working at the Site will be prepared for potential exposure in their normal daily work.

Most Recent Concentrations of Petroleum Constituents in Groundwater *

| Sample | Sample | TPHg | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | TBA |
|--------|-----------|-----------------|---------|---------|--------------|---------|----------------|--------|
| | Date | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) |
| MVV-1 | 12/2/2011 | <50 | <0.50 | <0.50 | <0.50 | <1.5 | 0.69 | 11 |
| MW-2 | 12/2/2011 | <50 | <0.50 | <0.50 | < 0.50 | <1.5 | <0.50 | <10 |
| MW-4 | 12/2/2011 | 1,100 | 12 | 1.3 | . 32 | 2.3 | 10 | 1,700 |
| MW-5 | 12/2/2011 | 81 | <0.50 | <0.50 | <0.50 | <1.5 | <0.50 | 390 |
| MW-6 | 12/2/2011 | 860 | 5.2 | <0.50 | 1.4 | <1.5 | 9.7 | 18,000 |
| MVV-7 | 12/2/2011 | NA | NA | NA | NA | NA | NA | NA |
| MVV-8 | 12/2/2011 | <50 | < 0.50 | < 0.50 | < 0.50 | <1.5 | 16 | <10 |
| MW-9 | 12/2/2011 | NA | NA | NA | NA | NA | NA | NA |
| MW-10 | 12/2/2011 | NA | NA | NA | NA | NA | NA | NA |
| MVV-11 | 12/2/2011 | NA | NA | NA | NA | NA | NA | NA |
| MW-12 | 12/2/2011 | <50 | < 0.50 | <0.50 | < 0.50 | <1.5 | <0.50 | <10 |
| MW-13 | 12/2/2011 | <50 | <0.50 | < 0.50 | < 0.50 | <1.5 | 1.0 | <10 |
| MW-14 | 12/2/2011 | NA | NA | NA | NA | NA | NA | NA |
| MW-15 | 12/2/2011 | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | 12/2/2011 | NA | NA | NA | NA | NA | NA | NA |
| MW-17 | 12/2/2011 | NA | NA | NA | NA | NA | NA | NA |
| WQOs | - | 50 ^a | 1 | 150 | 300 | 1,750 | 5 ^b | 1,200° |

NA: Not Analyzed, Not Applicable or Data Not Available

µg/L: micrograms per liter, parts per billion

<: Not detected at or above stated reporting limit

TPHg: Total petroleum hydrocarbons as gasoline

MTBE: Methyl tert-butyl ether

TBA: Tert-butyl alcohol

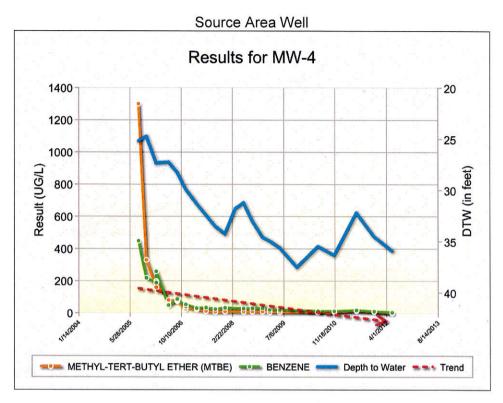
WQOs: Water Quality Objectives.

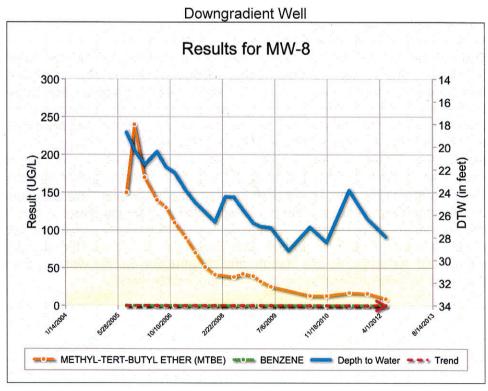
a. Typical Jahoratory detection limit

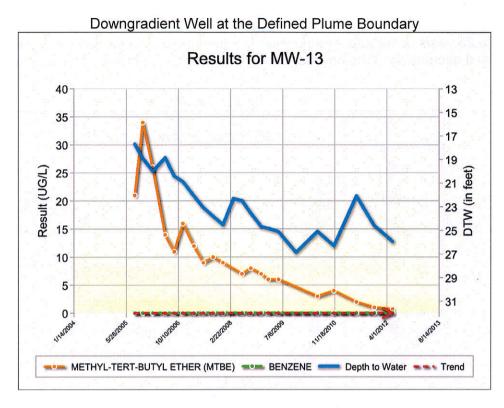
- a: Typical laboratory detection limit.
- b: Secondary maximum contaminant level (MCL).
- c: California Department of Public Health Response Level
- *: Although groundwater TBA concentration in the source zone well MW-6 is 18,000 µg/L, TBA is below detection limit in well MW-8 approximately 200 feet in the downgradient direction. The TBA plume is limited and stable.

Groundwater Trends

There are 23 years of irregular groundwater monitoring data for this case. Contamination plume is defined and decreasing. Groundwater benzene and MTBE trends are shown in the graphs below.

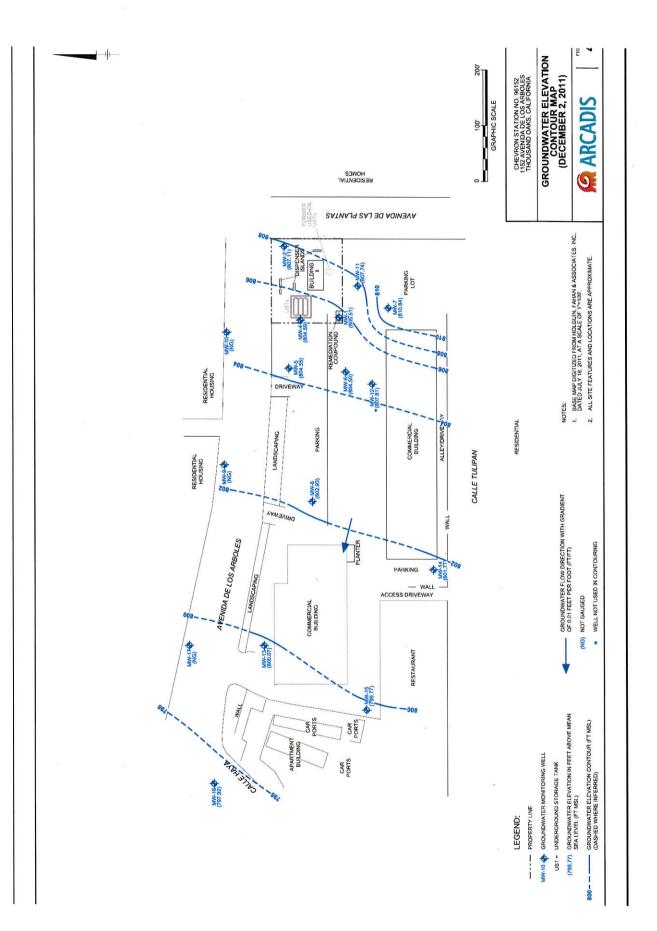






Evaluation of Current Risk

- Estimate of Hydrocarbon Mass in Soil: None reported.
- Soil/Groundwater tested for methyl tert-butyl ether (MTBE): Yes, see table above.
- Oxygen Concentrations in Soil Vapor: None reported.
- Plume Length: 375 feet long.
- Plume Stable or Degrading: Yes.
- Contaminated Zone(s) Used for Drinking Water: No.
- Groundwater Risk from Residual Petroleum Hydrocarbons: The case meets Policy Criterion 1 by Class 4. The contaminant plume that exceeds WQOs is less than 1,000 feet in length. There is no free product and the nearest water supply well or surface water body is greater than 1,000 feet from the defined plume boundary. Additionally, no other water supply wells have been identified within 1,000 feet of the defined plume boundary in files reviewed. The dissolved concentrations of benzene and MTBE are each less than 1,000 µg/L.
- Indoor Vapor Risk from Residual Petroleum Hydrocarbons: Active Station Exemption Soil vapor evaluation is not required because site is an active commercial petroleum fueling facility.
- Direct Contact Risk from Residual Petroleum Hydrocarbons: The case meets Policy Criterion 3b. A professional assessment of site-specific risk from exposure shows that maximum concentrations of petroleum constituents in soil will have no significant risk of adversely affecting human health. In addition, the Site is paved and accidental access to Site soils is prevented. As an active gas station, any construction worker working at the Site will be prepared for potential exposure in their normal daily work.



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