STATE OF CALIFORNIA STATE WATER RESOURCES CONTROL BOARD

ORDER WQ 2013-0015-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. 4681
Chevron #9-5868
14240 East Firestone Boulevard, La Mirada
Los Angeles Regional Water Quality Control Board

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:

Claim No. 4681

Chevron #9-5868

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 subdivision (a) and (b). Pursuant to section 25299.57, subdivision (l) (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

Date

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State Water Resources Control Board

UST CASE CLOSURE REVIEW SUMMARY REPORT

Agency Information

	Address: 320 W. 4th Street, Suite 200
Board – Los Angeles Region (Region 4)	Los Angeles, CA 90013
Agency Caseworker: Gregg Kwey	Case No.: I-09896

Case Information

USTCF Claim No.: 4681	Global ID: T0603703514
Site Name: Chevron #9-5868	Site Address: 14240 East Firestone
The care meets Policy Criterion 2g. Wilnerm	Boulevard, La Mirada, CA 90638
Responsible Party: Chevron Products Company,	
Attn: Joe Watterson	Bldg. BR1X#5339, San Ramon, CA 94583
USTCF Expenditures to Date: \$902,472	Number of Years Case Open: 26

URL: http://geotracker.waterboards.ca.gov/profile-report.asp?global-id=T0603703514

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 Low-Threat Policy. This case meets all of the required criteria of the Low-Threat Policy. A summary evaluation of compliance with the Low-Threat 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 Case Information. Highlights of the case follow:

An unauthorized leak was reported in December 1985 during fuel system integrity testing. Three 10,000-gallon gasoline USTs and one waste oil UST had been removed in June 1985. Since 1985, 15 groundwater monitoring wells have been installed at the Site. A total of 142 tons of contaminated soil have been excavated and disposed off-site. Soil vapor extraction (SVE) was performed at the Site and removed more than 79,000 pounds of total petroleum hydrocarbons as gasoline (TPHg). Groundwater pump and treat was performed at the Site from October 2003 and January 2006. Approximately 0.6 gallons of free product and 42,906 gallons of groundwater have been pumped treated and discharged.

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 250 feet of the defined plume boundary. No other water supply wells or surface water bodies have been identified within 250 feet of the defined plume boundary in the files reviewed. Water is provided to water users near the Site by Suburban Water Systems – La Mirada. 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 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 constituents are limited, stable and declining.

Claim No: 4681

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 The case meets Policy Criterion 1 by Class 1. The contaminant plume that
 exceeds water quality objectives is less than 100 feet in length. There is no free product and
 the nearest water supply well or surface water body is greater than 250 feet from the defined
 plume boundary.
- Vapor Intrusion to Indoor Air Policy Exclusion for Active Station Soil vapor evaluation is not required because site is an active commercial petroleum fueling facility.
- 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 sites 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 directly substituted 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

The Regional Board, in the GeoTracker Closure Review (dated 10/20/2009), objects because:

Groundwater contaminant concentrations exceed water quality objectives.
 RESPONSE: The case meets all Policy criteria and does not pose a significant risk to human health.

February 2013

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.

Fund Manager Recommendation for Closure

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

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

Date

Prepared by: Hari Patel

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.

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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:	sque encone con a. Are nu sim
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:	nuk bipupilip milanin ank di milanin ank di
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: 図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	

Chevron #9-5868

14240 E. Firestone Boulevard, La Mirada

Claim No: 4681

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?	☐ 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
Т	. Direct Contact and Outdoor Air Exposure: The site is considered low-threat for direct contact and outdoor air exposure if ite-specific conditions satisfy one of the three classes of sites (a through c).	transplanted and control of the cont
а	. 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

Chevron #9-5868

14240 E. Firestone Boulevard, La Mirada

Claim No: 4681

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

Site Location/History

- This Site is located on the southeast corner of Valley View Avenue and Firestone Boulevard.
- The Site is an active commercial station and is bounded by commercial facilities all around.
- In January 1986 contamination identified during fuel system integrity testing was reported.
- Fifteen groundwater monitoring wells have been installed and monitored irregularly.
- Site map showing the location of the current USTs and monitoring wells is provided at the end of this closure review summary (Wayne Perry, 2012).
- Nature of Contaminants of Concern: Petroleum hydrocarbons only.
- Source: UST system.
- Date reported: January 1986.
- Status of release: USTs removed.
- Free Product: Free product found in groundwater monitoring wells MW-3 (up to 0.1 foot), MW-4, MW-7 and MW-9 (0.04). Free product recovery was conducted between February 1989 and February 1991. Free product was last observed in July 1994 in MW-3 at 0.06 feet thickness.

Tank Information

Tank No.	Size in Gallons	Contents	Closed in Place/ Removed/Active	Date
1-3	10,000	Gasoline	Removed	June 1985
4	Unknown	Waste Oil	Removed	June 1985
5-7	10,000	Gasoline	Removed	May 2003
8	10,000	Diesel	Removed	May 2003
9	550	Waste Oil	Removed	May 2003
10-12	10,000	Gasoline	Active	
13	10,500	Diesel	Active	Comment in the

Receptors

- GW Basin: Coastal Plain Of Los Angeles Central.
- Beneficial Uses: Municipal, Industrial and Agricultural.
- Land Use Designation: Aerial photograph available on GeoTracker suggests commercial land use in the vicinity of the Site.
- Public Water System: Yes; Suburban Water Systems La Mirada.
- Distance to Nearest Supply Well: According to data available in GeoTracker, there are no
 public water supply wells regulated by CDPH within 250 feet of the plume. No other water
 supply wells were identified within 250 feet of the defined plume in the files reviewed.
- Distance to Nearest Surface Water: No identified surface water bodies within 250 feet of the plume.

Geology/Hydrogeology

- Stratigraphy: The Site is underlain by clayey silt, silt, fine-grained silty sand and fine- to medium-grained sand to 25' below ground surface (bgs) and is underlain by the Bellflower aquiclude to a depth of 60 feet bgs.
- Maximum Sample Depth: 35 feet below ground surface.
- Minimum Groundwater Depth: 7.55 feet bgs.
- Maximum Groundwater Depth: 30.49 feet bgs.
- Current Average Depth to Groundwater: Approximately 16 feet bgs.

Chevron #9-5868

14240 E. Firestone Boulevard, La Mirada

Claim No: 4681

Saturated Zones(s) Studied: 7 - 40 bgs.

Appropriate Screen Interval: Yes.

 Groundwater Flow Direction: Historically ranging from northwesterly to southwesterly. Most recent data (November 2011) reports groundwater flow to the west.

Monitoring Well Information

Well Designation	Date Installed	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs) (11/22/2011)
MW-1	1986	8-25	16.30
MW-2	1986	8-25	14.74
MW-3	1986	8-25	15.30
MW-5	1986	5-30	16.69
MW-6	1986	5-30	15.06
MW-7	1988	5-30	15.39
MW-8	1988	5-30	15.76
MW-9	1988	5-30	16.01
MW-10	1990	5-35	NM
MW-11	1990	5-35	· NM
MW-12	1990	5-35	NM
MW-13	1990	5-40.5	18.47
MW-14	1997	5-30	17.43
MW-15	2003	5-35	26.86
MW-3A	2007	5-25	16.47

NM: Not Measured

Remedial Summary

- Free Product: Free product historically found in groundwater monitoring wells MW-3 (up to 0.1 foot), MW-4, MW-7 and MW-9 (0.04). Free product recovery was conducted between February 1989 and February 1991. Free product was last observed in July 1994 in MW-3 at 0.06 feet thickness.
- Soil Excavation: 142 tons of impacted soil were removed and disposed off-site in June 2000.
- In-Situ Soil Remediation: Soil vapor extraction (SVE) was conducted from September 1995 to April 1996, and again from September 2003 to August 2005 removing over 79,000 pounds of TPHg.
- Groundwater Remediation: Groundwater extraction conducted from October 2003 to January 2006 and removed 0.6 gallons of free product and 42,906 gallons of contaminated water.

Most Recent Concentrations of Petroleum Constituents in Soil

Constituent	Maximum 0-5 ft. bgs [mg/kg and (date)]	Maximum 5-10 ft. bgs [mg/kg and (date)]		
Benzene	2 (01/12/90)	0.093 (05/21/07)		
Ethylbenzene	41 (03/97)	0.021 (05/21/07)		
Naphthalene	NA NA	NA NA		
PAHs	NA 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

Claim No: 4681

Most Recent Concentrations of Petroleum Constituents in Groundwater

Sample	Sample	TPHg	TPHd	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TBA
	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-1	9/12/12	ND<50	ND<110	ND<1	ND<1	ND<1	ND<1	1	ND<5
MW-2	9/12/12	230	110	ND<1	ND<1	ND<1	ND<1	5	45
MW-3	9/12/12	1300	4700	6	0.5	5	ND<1	6	110
MW-3A	9/12/12	170	ND<100	2	ND<1	4	ND<1	1	73
MW-5	9/12/12	1800	1200	15	5	3	6	74	76
MW-6	9/12/12	95	130	ND<1	ND<1	ND<1	ND<1	ND<1	ND<5
MW-7	9/12/12	4100	540	17	20	ND<10	40	8	ND<2
MW-8	9/12/12	370	210	2	ND<1	ND<1	ND<1	2	79
MW-9	9/12/12	220	120	2	ND<1	ND<1	ND<1	1	43
MW-10	9/12/12	360	830	ND<1	ND<1	ND<1	ND<1	4	44
MW-11	9/12/12	360	730	1	ND<1	ND<1	ND<1	13	69
MW-12	9/12/12	610	160	ND<1	ND<1	ND<1	ND<1	2	29
MW-13	9/12/12	ND<50	ND<100	ND<1	ND<1	ND<1	ND<1	ND<1	ND<5
MW-14	9/12/12	ND<50	ND<100	ND<1	ND<1	ND<1	ND<1	ND<1	ND<5
MW-15	9/12/12	ND<50	ND<100	ND<1	ND<1	ND<1	ND<1	ND<1	ND<5
WQOs		50 ^a	100 ^b	1	150	300	1750	5 ^c	1200 ^d

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
TPHd: Total petroleum hydrocarbons as diesel

MTBE: Methyl tert-butyl ether TBA: Tert-butyl alcohol

WQOs: Water Quality Objectives, Region 4 Basin Plan

^a: Typical laboratory reporting limit

b: Taste and odor threshold

c: Secondary maximum contaminant level (MCL)

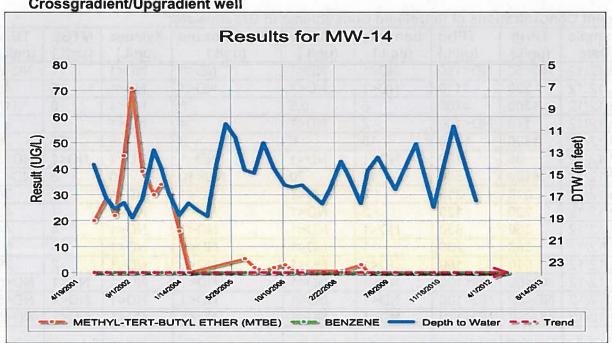
d: California Department of Public Health, Response Level

Groundwater Trends

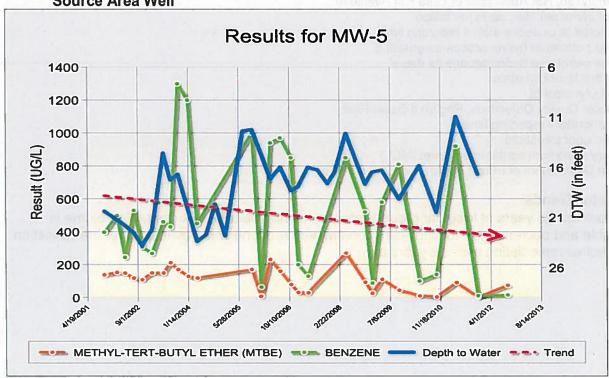
• There are 26 years of irregular groundwater monitoring data for this case. The plume is stable and decreasing. No significant contaminant rebound was observed after the cessation of active remediation over six years ago.

Claim No: 4681



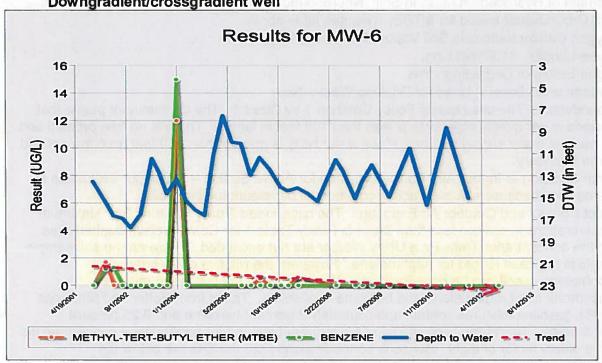


Source Area Well

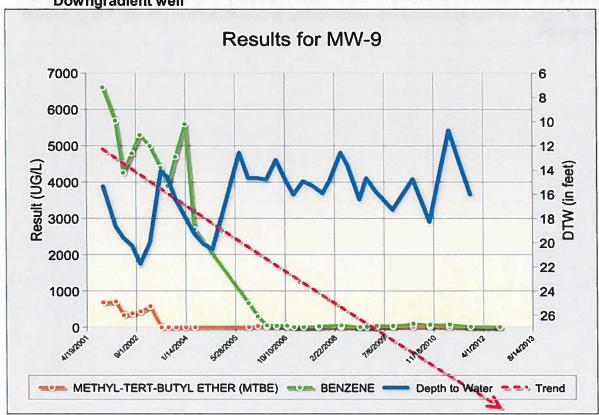


Claim No: 4681









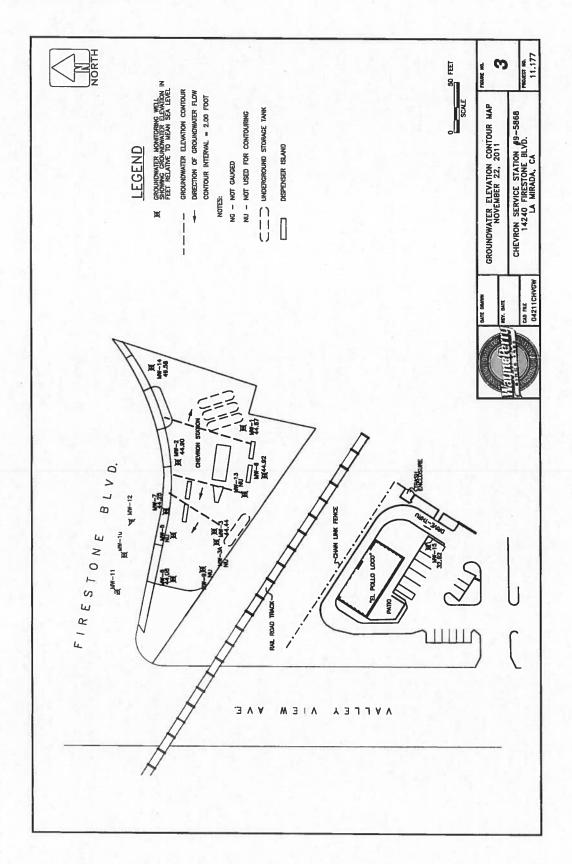
Page 11 of 13

Claim No: 4681

Evaluation of Current Risk

- Estimate of Hydrocarbon Mass in Soil: Not reported. More than 79,000 pounds removed.
- Soil/ Groundwater tested for MTBE: Yes, see table above.
- Oxygen Concentrations in Soil Vapor: None reported.
- Plume Length: <100 feet long.
- Plume Stable or Degrading: Yes.
- Contaminated Zone(s) Used for Drinking Water: No.
- Groundwater: The case meets Policy Criterion 1 by Class 1. The contaminant plume that
 exceeds water quality objectives is less than 100 feet in length. There is no free product and
 the nearest water supply well or surface water body is greater than 250 feet from the defined
 plume boundary.
- Vapor Intrusion to Indoor Air: Policy Exclusion for Active Station Soil vapor evaluation is not required because site is an active commercial petroleum fueling facility.
- 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 sites 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 directly substituted 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.

Claim No: 4681



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