STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

ORDER WQ 2013-0103-UST

In the Matter of Underground Storage Tank Case Closure
Pursuant to Health and Safety Code Section 25296.40 and the
Low-Threat Underground Storage Tank Case Closure Policy

BY THE EXECUTIVE DIRECTOR:¹

By this order, the Executive Director directs closure of the underground storage tank
(UST) case at the site listed below, pursuant to subdivision (a) of section 25296.40 of the Health
and Safety Code.² The name of the petitioner, the site name, the site address, the Underground
Storage Tank Cleanup Fund (Fund) claim number if applicable, the lead agency, and case
number are as follows:

Mr. Gene Townsend
Gene Townsend Enterprises
609 S. Marshall Avenue, El Cajon, California
Fund Claim No. 9909
County of San Diego Department of Environmental Health, Case No. H20190-001

I. STATUTORY AND PROCEDURAL BACKGROUND

Upon receipt of a petition from a UST owner, operator, or other responsible party,
section 25296.40 authorizes the State Water Resources Control Board (State Water Board) to
close or require closure of a UST case where an unauthorized release has occurred, if the State
Water Board determines that corrective action at the site is in compliance with all of the
requirements of subdivisions (a) and (b) of section 25296.10. The State Water Board, or in
certain cases the State Water Board Executive Director, may close a case or require the closure

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
² Unless otherwise noted, all references are to the California Health and Safety Code.
of a UST case. Closure of a UST case is appropriate where the corrective action ensures the protection of 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.

State Water Board staff has completed a 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 Summary has been prepared for the case identified above and the basis 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 Summary.

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 uniform closure letter as specified in Health and Safety Code section 25296.10. The uniform 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 (l)(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 uniform closure letter or a letter of commitment, whichever occurs later, shall not be reimbursed unless specified conditions are satisfied.
II. FINDINGS

Based upon the UST Case Closure Summary 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:

Mr. Gene Townsend  
Gene Townsend Enterprises  
609 S. Marshall Avenue, El Cajon, California  
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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 State Water Board in determining that the case should be closed.

Pursuant to section 21080.5 of the Public Resources Code, environmental impacts associated with the adoption of this Order were analyzed in the substitute environmental document (SED) the State Water Board approved on May 1, 2012. The SED concludes that all environmental effects of adopting and implementing the Low Threat Closure Policy are less than significant, and environmental impacts as a result of complying with the Policy are no different from the impacts that are reasonably foreseen as a result of the Policy itself. A Notice of Decision was filed August 17, 2012. No new environmental impacts or any additional reasonably foreseeable impacts beyond those that were addressed in the SED will result from adopting this Order.

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 (LOP) 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 media-specific 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 uniform closure letter, the Petitioner 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 Petitioner 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 Water Quality shall issue a uniform closure letter consistent with Health and Safety Code section 25296.10, subdivision (g) and upload the uniform closure letter and UST Case Closure Summary to GeoTracker.
E. 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 uniform closure letter in order for the costs to be considered.

F. Any Regional Water Board or LOP 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 LOP agency directive is inconsistent with this Order.

[Signature]
Executive Director

10/17/13
Date
UST CASE CLOSURE SUMMARY

Agency Information

Agency Name: County of San Diego Department of Environmental Health (County)  
Address: P.O. Box 129261  
San Diego, CA 92112-9261

Agency Caseworker: Mr. Tony Sawyer  
Case No.: H20190-001

Case Information

USTCF Claim No.: 9909  
Global ID: T0607301000

Site Name: Gene Townsend Enterprises  
Site Address: 609 S. Marshall Avenue,  
El Cajon, CA 92020 (Site)

Petitioner: Mr. Gene Townsend  
Address: 609 S. Marshall Avenue,  
El Cajon, CA 92020

USTCF Expenditures to Date: $175,553  
Number of Years Case Open: 21

URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607301000

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 Low-Threat 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 are as follows:

The release at the Site was discovered when an underground storage tank (UST) was removed in April 1992. No USTs are currently on-Site. During the 1992 UST removal, approximately 55 tons of soil was excavated and stockpiled at the site. Two monitoring wells MW-1 and MW-2 were destroyed during 2001 to minimize the potential for petroleum hydrocarbons to migrate between the two water-bearing zones. The plume is stable and decreasing.

There is an active UST case and two closed UST cases within 500 feet of the Site. Residual contaminants from one or more of these cases have contributed to a contaminant plume downgradient of the Petitioner's Site.

The petroleum release is limited to the shallow soil and groundwater within 100 feet of the Site boundary. The nearest surface water is Mount Helix Reservoir located approximately 6,500 feet southwest of the Site. The nearest public supply well regulated by the California Department of Public Health is located over 8,000 feet northwest of the Site. Public water is supplied by Helix Water District.
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609 S. Marshall Avenue, El Cajon

The affected groundwater beneath the Site 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. Corrective actions have been implemented and further remediation is not necessary. 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 2. The contaminant plume that exceeds water quality objectives is less than 250 feet in length. There is no free product. The nearest existing 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 micrograms per liter (µg/L), and the dissolved concentration of MTBE is less than 1.000 µg/L.

- Petroleum Vapor Intrusion to Indoor Air – Site meets the CRITERIA (2) b. A site-specific risk assessment for the vapor intrusion pathway was conducted and demonstrates that human health is protected to the satisfaction of the regulatory agency.

  The Human Health Risk Assessment (HHRA) performed during 2008 indicated that the potential human health risk associated with inhalation is insignificant to occupants at the only enclosed commercial building on-Site.

- Direct Contact and Outdoor Air Exposure – Site meets CRITERIA (2) b. A site-specific risk assessment from exposure shows that maximum concentrations of petroleum constituents in soil will have no significant risk of adversely affecting the human health.

  The HHRA performed in 2008 for on-Site risks from exposure to petroleum contaminants indicated that maximum concentrations of petroleum constituents in soil will have no significant risk of adversely affecting human health.

Objections to Closure

County staff objected to UST case closure because:

1. Risk assessment has not been completed. Based on benzene levels in groundwater and that groundwater is shallow, soil vapor samples should be collected near MW-8 adjacent to the apartment building and a vapor risk assessment should be completed using samples.

   RESPONSE: Between 2001 and 2011, benzene concentrations in groundwater at off-Site well MW-8 never exceeded 85 µg/L. The bioattenuation zone near MW-8 is at least 6 vertical feet. Contaminants in upgradient wells MW-3 through MW-7 have been low to non-detectable since 2009 and TPhg in soil was 140 milligrams per kilogram (mg/kg) at 7 feet bgs during 2001. Contaminants from the on-Site release pose no significant risk to residential buildings east of the Site.
Gene Townsend Enterprises
609 S. Marshall Avenue, El Cajon

2. Downgradient delineation has not been completed. The plume has migrated off property in an eastward direction and the downgradient extent of soil and groundwater contamination at the site has not been assessed.

**RESPONSE:** Contaminants in on-Site wells MW-3 through MW-7 have been low to non-detectable since 2009. The plume is stable and decreasing and it is delineated to the east and northeast by wells MW-3 MW-5, MW-6, and MW-8. Additional assessment will not likely change conceptual model.

**Recommendation for Closure**

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

Prepared By: ___________________________
Charlow Arzadon
Water Resource Control Engineer

Reviewed By: ___________________________
Benjamin Heningburg, PG No. 8130
Senior Engineering Geologist

[Signatures]

Date: 7/3/13

Date: 7/3/2013
ATTACHMENT 1: COMPLIANCE WITH STATE WATER BOARD POLICIES AND STATE LAW

The Site complies with 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 Site complies with the requirements of the Low-Threat Underground Storage Tank (UST) Case Closure Policy as described below.¹

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is corrective action consistent with Chapter 6.7 of the Health and Safety Code and implementing regulations?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>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 case 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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Have waste discharge requirements or any other orders issued pursuant to Division 7 of the Water Code been issued at this Site?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>If so, was the corrective action performed consistent with any order?</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

General Criteria
General criteria that must be satisfied by all candidate sites:

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is the unauthorized release located within the service area of a public water system?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Does the unauthorized release consist only of petroleum?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Has the unauthorized (&quot;primary&quot;) release from the UST system been stopped?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Has free product been removed to the maximum extent practicable?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Has a conceptual site model that assesses the nature, extent, and mobility of the release been developed?</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

¹ Refer to the Low-Threat Underground Storage Tank Case Closure Policy for closure criteria for low-threat petroleum UST sites.
<table>
<thead>
<tr>
<th>Has secondary source been removed to the extent practicable?</th>
<th>□ Yes □ No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Has soil or groundwater been tested for MTBE and results reported in accordance with Health and Safety Code, Section 25296.15?</td>
<td>□ Yes □ No</td>
</tr>
<tr>
<td>Does nuisance as defined by Water Code, section 13050 exist at the Site?</td>
<td>□ Yes □ No</td>
</tr>
<tr>
<td>Are there unique Site attributes or Site-specific conditions that demonstrably increase the risk associated with residual petroleum constituents?</td>
<td>□ Yes □ No</td>
</tr>
</tbody>
</table>

**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?
     - 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? □ Yes □ No
   - Exception: Satisfication 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.
     - 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
     - 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 |

| 3. Direct Contact and Outdoor Air Exposure: The Site is considered low-threat for direct contact and outdoor air exposure if Site-specific conditions satisfy one of the three classes of sites (a through c). |
|---|---|
| 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 |
Gene Townsend Enterprises
609 S. Marshall Avenue, El Cajon

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

Site Location/ History

- The Site is located in an industrial park near the intersection of S. Marshall Avenue and El Cajon Boulevard in El Cajon. The Site is an operating auto body shop.
- Nature of Contaminants of Concern: Petroleum hydrocarbons only.
- Primary Source of Release: UST system
- Discovery Date: 1992
- Release Type: Petroleum
- Eight monitoring wells have been installed. Two of the monitoring wells were destroyed.
- Free Product: None reported.

Table A. USTs:

<table>
<thead>
<tr>
<th>Tank No.</th>
<th>Size</th>
<th>Contents</th>
<th>Status</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>550 gallon</td>
<td>Gasoline</td>
<td>Removed</td>
<td>1992</td>
</tr>
</tbody>
</table>

Receptors

- Groundwater Basin: El Cajon Valley (9-16)
- Groundwater Beneficial Uses: Municipal and domestic supply (MUN); agricultural supply (AGR); industrial service supply (IND); industrial process supply (PRO); and aquaculture (AQUA).
- Designated Land Use: General commercial (GC)
- Public Water System: Helix Water District
- Distance to Nearest Surface Waters: Mount Helix Reservoir is greater than 1,000 feet east.
- Distance to Nearest Supply Wells: Supply well is greater than 1,000 feet northwest.

Geology/ Hydrogeology

- Average Groundwater Depth: ~8 feet bgs (shallow water-bearing zone); ~11 feet bgs (deep water-bearing zone)
- Minimum Groundwater Depth: ~3.5 feet bgs (shallow water-bearing zone); ~6.5 feet bgs (deep water-bearing zone)
- Groundwater Flow Direction: Northeast
- Geology: The Site is underlain by terrace deposits generally consisting of clayey sand were observed above 13 feet bgs. Friars formation below 13 feet bgs was observed to a total depth of 25 feet and consist clayey sandstone.
- Hydrogeology: Two water bearing zones have been identified. The shallow water bearing zone is reported to occur within the terrace deposits and the deeper water-bearing zone is reported to occur within Friars formation. Distance to nearest surface water (Mount Helix Reservoir) is located greater than 3,000 feet southwest of the Site.

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2 "Petroleum" means crude oil, or any fraction thereof, which is liquid at standard conditions of temperature and pressure, which means at 60 degrees Fahrenheit and 14.7 pounds per square inch absolute. (Health & Saf. Code. § 25299.2.)

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Gene Townsend Enterprises  
609 S. Marshall Avenue, El Cajon

Corrective Actions

- One UST was removed in April 1992.
- During the April 1992 UST removal, approximately 55 tons of soil was excavated and stockpiled at the site.

### Table B. Concentrations of Petroleum Constituents in Soil

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Maximum 0-5 feet bgs (mg/kg)</th>
<th>Maximum 5-10 feet bgs (mg/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene</td>
<td>&lt;0.005</td>
<td>Not Analyzed</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>Not Analyzed</td>
<td>1.519</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>Not Analyzed</td>
<td>Not Analyzed</td>
</tr>
<tr>
<td>PAHs*</td>
<td>Not Analyzed</td>
<td>Not Analyzed</td>
</tr>
</tbody>
</table>

*Poly-aromatic hydrocarbons as benzo(a)pyrene toxicity equivalent

### Table C. Concentrations of Petroleum Constituents in Groundwater (June 2012)

<table>
<thead>
<tr>
<th>Sample</th>
<th>Sample Date</th>
<th>TPHg (µg/L)</th>
<th>Benzene (µg/L)</th>
<th>Toluene (µg/L)</th>
<th>Ethylbenzene (µg/L)</th>
<th>Total Xylenes (µg/L)</th>
<th>MTBE (µg/L)</th>
<th>TBA (µg/L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MW-1</td>
<td>7/15/1999</td>
<td>2400</td>
<td>470</td>
<td>NS</td>
<td>NS</td>
<td>NS</td>
<td>NA</td>
<td>NS</td>
</tr>
<tr>
<td>MW-2</td>
<td>7/15/1999</td>
<td>ND</td>
<td>ND</td>
<td>NS</td>
<td>NS</td>
<td>NS</td>
<td>ND</td>
<td>NS</td>
</tr>
<tr>
<td>MW-3</td>
<td>11/7/2011</td>
<td>490</td>
<td>&lt;1</td>
<td>&lt;1</td>
<td>3</td>
<td>&lt;2</td>
<td>5</td>
<td>670</td>
</tr>
<tr>
<td>MW-4</td>
<td>11/7/2011</td>
<td>200</td>
<td>12</td>
<td>&lt;1</td>
<td>12</td>
<td>6</td>
<td>3</td>
<td>160</td>
</tr>
<tr>
<td>MW-5</td>
<td>11/7/2011</td>
<td>&lt;100</td>
<td>&lt;1</td>
<td>&lt;1</td>
<td>1</td>
<td>&lt;2</td>
<td>&lt;1</td>
<td>&lt;10</td>
</tr>
<tr>
<td>MW-6</td>
<td>11/7/2011</td>
<td>&lt;100</td>
<td>&lt;1</td>
<td>&lt;1</td>
<td>1</td>
<td>&lt;2</td>
<td>&lt;1</td>
<td>&lt;10</td>
</tr>
<tr>
<td>MW-7</td>
<td>11/7/2011</td>
<td>&lt;100</td>
<td>&lt;1</td>
<td>1</td>
<td>&lt;2</td>
<td>8</td>
<td>&lt;10</td>
<td></td>
</tr>
<tr>
<td>MW-8</td>
<td>11/7/2011</td>
<td>2300</td>
<td>27</td>
<td>131</td>
<td>95</td>
<td>585</td>
<td>&lt;1</td>
<td>37</td>
</tr>
<tr>
<td>WQOs</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>150</td>
<td>300</td>
<td>1750</td>
<td>5</td>
<td>12*</td>
</tr>
</tbody>
</table>

WQOs - Water Quality Objectives

* - Notification Level

Bold = above WQOs

NS – Not Sampled

NA – Not Analyzed

µg/L – micrograms per liter

TPHg – Total Petroleum Hydrocarbons quantified as gasoline

TPHd – Total Petroleum Hydrocarbons quantified as diesel

MTBE – methyl tert-Butyl ether

< - less than the indicated reporting limit
Groundwater Trends

Benzene concentrations indicate a decline in well MW-8, since 2005.

Evaluation of Risk Criteria

- Maximum Petroleum Constituent Plume Length above WQOs: The groundwater plume is approximately 160 feet in length.
- Petroleum Constituent Plume Determined Stable or Decreasing: Yes
- Soil/Groundwater Sampled for MTBE: Yes, see Table C above
- Residual Petroleum Constituents Pose Significant Risk to the Environment: No
- Residual Petroleum Constituents Pose Significant Vapor Intrusion Risk to Human Health: No – Petroleum constituents most likely to pose a threat for vapor intrusion were removed during soil excavation and over-excitation. Site conditions demonstrate that the residual petroleum constituents in soil and groundwater are protective of human health.
- Residual Petroleum Constituents Pose a Nuisance\(^3\) at the Site: No
- Residual Petroleum Constituents in Soil Pose Significant Risk of Adversely Affecting Human Health: No.

\(^3\) Nuisance as defined in California Water Code, section 13050, subdivision (m).
Residual Petroleum Constituents Pose Significant Direct Contact and Outdoor Air Exposure to Human Health: No – The HHRA conducted in 2008 states that contact with soil or groundwater at the Site is judged to be highly unlikely since the contaminated soil occurs at depths in excess of 5 feet bgs. Furthermore, the contaminated soil is covered by the Site building with slab-on-grade concrete. Therefore, dermal exposure and outdoor air exposure is highly unlikely unless construction results in soil excavation. If this is the case, appropriately trained personnel should conduct the work and a community health and safety plan should be prepared. There are no soil samples 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 directly substituted 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 by a factor of eight. It is highly unlikely that naphthalene concentrations in the soil, if any, exceed the threshold.