# STATE OF CALIFORNIA STATE WATER RESOURCES CONTROL BOARD

## **ORDER WQ 2013-0078-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.<sup>2</sup> The name of the Fund claimant, the Fund claim number, the site name and the applicable site address are as follows:

Pen Bullet Express
Claim No. 2609
Pen Bullet Express
1143 Pacific Street, Union City
Alameda County Water District

# 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

<sup>&</sup>lt;sup>1</sup> 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.

<sup>&</sup>lt;sup>2</sup> 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. 2609** 

## Pen Bullet Express

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** 

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#### **State Water Resources Control Board**

# **UST CASE CLOSURE REVIEW SUMMARY REPORT**

**Agency Information** 

Agency Name: Alameda County Water . District (District)	Address: 43885 South Grimmer Blvd Fremont, CA 94538
Agency Caseworker: Selim Zeyrek	Case No: 0152

#### Case Information

USTCF Claim No.: 2609 Global ID: T0600101058			
Site Name: Pen Bullet Express	Site Address: 1143 Pacific Street, Union City, CA 94587		
Responsible Party: Pen Bullet Express	Address: 1143 Pacific Street, Union City, CA 94587		
USTCF Expenditures to Date: \$559,090	Number of Years Case Open: 27		

## URL: <a href="http://geotracker.waterboards.ca.gov/profile-report.asp?global-id=T0600101058">http://geotracker.waterboards.ca.gov/profile-report.asp?global-id=T0600101058</a>

#### 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 Policy. This case does meet 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 Case Information (Conceptual Site Model)**. Highlights and recommendations of the case review follow:

An unauthorized release was reported in September 1985. One 8,000-gallon gasoline UST was removed 1989. Groundwater extraction removed an estimated 500 pounds of total petroleum hydrocarbons as gasoline (TPHg) between 1992 and June 1997. In 1998, oxygen releasing compound filled socks were installed in the extraction wells. Between May and June 2011, 10,000 pounds of sodium persulfate was injected. Since 1989, nine monitoring wells have been installed and monitored regularly. According to groundwater data, water quality objectives have been achieved for all constituents except benzene in three near-source monitoring wells.

According to data available in GeoTracker, there are no California Department of Public Health regulated supply wells or surface water bodies within 1,000 feet of the defined plume boundary. 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 Alameda County Water District. 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 hydrocarbon constituents are limited and stable, and concentrations are decreasing. 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.

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## 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.
The nearest water supply well or surface water body is greater than 250 feet from the
defined plume boundary.

Vapor Intrusion to Indoor Air: This case meets Policy Criterion 2b. Although no document titled "Risk Assessment" was found in the files reviewed, a professional assessment of site-specific risk from potential exposure to petroleum constituents as a result of vapor intrusion found there to be no significant risk of petroleum vapors adversely affecting human health. Remediation activities at the Site have included an unknown amount of soil being removed during the UST removal activities, groundwater extraction was conducted between 1992 and 1997, oxygen releasing socks were installed in 1998 and in 2011, 10,000 pounds of sodium persulfate was injected.

Direct Contact and Outdoor Air Exposure: The case meets Policy Criterion 3b.
 Constituents in soil are less than levels that a site-specific risk assessment demonstrates will have no significant risk of adversely affecting human health. The Site is paved and accidental access to site soils is prevented.

## **Objections to Closure and Responses**

In correspondence dated December 20, 2012, the District objected to UST case closure because:

 Additional soil and groundwater investigations to determine the extent of soil and groundwater contamination, including the installation of a downgradient well are needed. <u>RESPONSE</u>: Based on soil and groundwater samples taken in June 2005 and data from the additional groundwater monitoring wells installed in January 2011, the vertical and lateral extents of contamination are adequately defined by water quality objectives.

Sensitive receptor survey, including a well survey is needed.
 <u>RESPONSE</u>: An additional query of the SWRCB-GAMA Database was conducted and failed to identify any water supply well(s) or surface water body within 1,000 feet of the Site.

Continued semiannual monitoring and sampling of the existing wells is needed.
 <u>RESPONSE</u>: The USTs have been removed, and the residual soil contamination has been characterized. Although affected by declining groundwater elevations, the amount and extent of dissolved phase petroleum fuel contamination have been decreasing.

Preparation of a Corrective Action Plan, including a verification monitoring plan to evaluate
the effectiveness of the selected remedial alternative is needed.
<u>RESPONSE</u>: No Corrective Action Plan or verification monitoring plan is needed. There
are adequate data to support the conceptual site model that the case meets the Policy
criteria.

June 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.

#### **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. San Mateo County has the regulatory responsibility to supervise the abandonment of monitoring wells.

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

Date

Prepared by: Walter Bahm

## 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.<sup>1</sup>

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 ଅ 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

<sup>&</sup>lt;sup>1</sup> 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

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
The state of the design of the species of the speci	DHESE SIT
Media-Specific Criteria Candidate sites must satisfy all three of these media-specific criteria:	mi sage-elia
the old of any of seed floor of strend the or numbering to another transmission of the contest them of the old the contest the	MEMORIA B
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:	Enverg
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	PHINAPPOLE
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
<ul> <li>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?</li> <li>If YES, check applicable scenarios: □ 1 □ 2 □ 3 □ 4</li> </ul>	□ Yes □ No ☒ NA
11 123, Greek applicable scenarios. LI LZ L3 L4	

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b	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 □ Yes □ No ☑ NA	
	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?	en en somenne Peter	
**	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).	Value Thans	
ć	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	
. I	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	
E) es	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 図 NA	

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

## Site Location/History

- The Site is a warehouse and is bounded by Western Avenue to the west, a commercial building to the north, an empty field across Pacific Street to the south, and industrial buildings to the east. The local land use is commercial/industrial.
- The Site is relatively flat and covered by asphalt pavement.
- Site maps showing the location of the former USTs, monitoring wells, site features, and groundwater concentrations are provided at the end of this review summary (Kenneth R. Henneman, Environmental Contractor, 2013).
- Nature of Contaminants of Concern: Petroleum hydrocarbons only.
- Source: UST system.
- Date Reported: September 1985.
- Status of Release: USTs removed.
- Free Product: None noted since 1993.

#### **Tank Information**

Tank No.	Size in Gallons	Contents	Closed in Place/ Removed/Active	Date	
1	8,000	Gasoline	Removed	1989	

#### Receptors

- GW Basin: Santa Clara Valley Niles Cone.
- Beneficial Uses According to the San Francisco Regional Water Quality Control Board (Regional Water Board) Basin Plan: Municipal, Industrial Process Water and Domestic Supply.
- Land Use Designation: According to an aerial photo from GeoTracker, the land use is commercial in the vicinity of the Site.
- Public Water System: Alameda County Water District.
- Distance to Nearest Supply Well: According to data available in GeoTracker, there are no California Department of Public Health water supply wells within 1,000 feet of the defined plume boundary. No other water supply wells were identified within 1,000 feet of the defined plume boundary in the files reviewed.
- Distance to Nearest Surface Water: There is no identified surface water within 1,000 feet of the defined plume boundary.

#### Geology/Hydrogeology

- Stratigraphy: The Site is underlain by interbedded and intermixed gravel, sand, silt and clay, which is underlain by a very stiff clayey fine sandy silt zone at approximately 44 feet below ground surface (bgs).
- Maximum Sample Depth: 48 feet bgs.
- Minimum Groundwater Depth: 28.87 feet bgs at monitoring well W-4.
- Maximum Groundwater Depth: 36.73 feet bgs at monitoring well P-3.
- Current Average Depth to Groundwater: Approximately 33 feet bgs.
- Saturated Zones(s) Studied: Approximately 29 49 feet bgs.
- Appropriate Screen Interval: Yes.
- Groundwater Flow Direction: Predominately to the west with an average gradient of 0.005 feet/foot.

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**Monitoring Well Information** 

Well Designation	Date Installed	Screen Interval (feet bgs)	Depth to Water (feet bgs) (4/19/12)	
W-1	1989	37 - 47	33.20	
W-2	1994	28 - 48	33.29	
W-3	1994	28 - 48	32.40	
W-4	1994	28 - 48	33.99	
P-3	1994	33 - 43	34.58	
P-11	1994	29 - 49	33.52	
P-12	2012	27 - 42	34.10	

Note: Five edge wells (3 installed in 1989 and 2 in 1994) sampled non-detect & were removed in 2003

## Remediation Summary

- Free Product: Some free product was reported in W-1 when it was first installed. None noted since 1993.
- Soil Excavation: An unknown amount of soil was excavated when the tank was removed in 1989.
- In-Situ Soil/Groundwater Remediation: Groundwater extraction removed an estimated 500 pounds of TPHg between 1992 and June 1997. The final removal rate had decreased to 0.03 pounds/1000 gallon. In 1998, oxygen releasing compound socks were installed in the extraction wells. Between May and June 2011, 10,000 pounds of sodium persulfate was injected.

Most Recent Concentrations of Petroleum Constituents in Soil

Constituent	Maximum 0-5 feet bgs [mg/kg and (date)]	Maximum 5-10 feet bgs [mg/kg and (date)]	
Benzene	NA	NA	
Ethylbenzene	NA	NA	
Naphthalene	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

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Most Recent Concentrations of Petroleum Constituents in Groundwater

Sample	Sample Date	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl -Benzene (µg/L)	Xylenes (μg/L)	MTBE (µg/L)
W-1	4/19/2012	3,900	87	<2.5	68	27	<2.5
W-2	4/19/2012	2,000	<2.5	<2.5	120	74	<2.5
W-3	4/19/2012	2,700	33	<2.5	140	45	<0.5
W-4	4/19/2012	5,600	210	<5	520	37	<0.5
P-3	4/19/2012	110	<2.5	<2.5	<2.5	<1	<2.5
P-11	4/19/2012	<250	<2.5	<2.5	<2.5	<1	<0.5
P-12	4/19/2012	3,000	<2.5	<2.5	14	<5	<2.5
WQOs	-		1	150	700	1,750	5

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

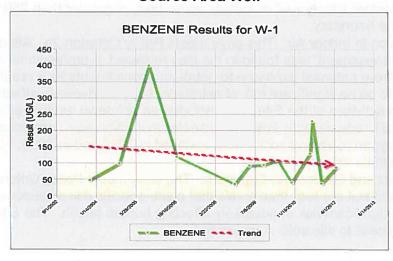
TBA: Tert-butyl alcohol

WQOs: Water Quality Objectives, Regional Water Board Basin Plan --: Regional Water Board Basin Plan has no numeric WQO for TPHg

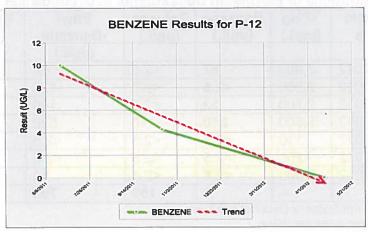
#### **Groundwater Trends**

 Groundwater monitoring has been conducted since 1989. Benzene trends are shown below: Source Area (W-1) and Downgradient (P-12).

#### Source Area Well



# **Downgradient Well**



## **Evaluation of Current Risk**

- Estimate of Hydrocarbon Mass in Soil: No recent data.
- Soil/Groundwater tested for MTBE: Yes, see table above.
- Oxygen Concentrations in Soil Vapor: None reported.
- Plume Length: <250 feet long.
- Plume Stable or Decreasing: 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.
  The nearest water supply well or surface water body is greater than 250 feet from the
  defined plume boundary.
- Vapor Intrusion to Indoor Air: This case meets Policy Criterion 2b. Although no document titled "Risk Assessment" was found in the files reviewed, a professional assessment of site-specific risk from potential exposure to petroleum constituents as a result of vapor intrusion found there to be no significant risk of petroleum vapors adversely affecting human health. Remediation activities at the Site have included an unknown amount of soil being removed during the UST removal activities, groundwater extraction was conducted between 1992 and 1997, oxygen releasing socks were installed in 1998 and in 2011, 10,000 pounds of sodium persulfate was injected.
- Direct Contact and Outdoor Air Exposure: The case meets Policy Criterion 3b.
   Constituents in soil are less than levels that a site-specific risk assessment demonstrates will have no significant risk of adversely affecting human health. The Site is paved and accidental access to site soils is prevented.

FIGURE 1 **Location Map DRIVEWAY** 5/31/12 62nd Report PBE 48' road not to scale WESTERN AVE. Pen Bullet Warehouse Shrubs-Trees-Hillside Pump & carbon treat system shut down August, 1997 PLANTER STRIP CECK Ground cover <u>∧</u> P12 PARKING AREA P 3 P110 Ground cover PACIFIC STREET **FIGURE** Pen Bullet Express Inc. 1143 Pacific St, Union City CA LOCATION MAP P100 NOTE: 4" Monitoring Wells Scale 1"=40'

| Temp 2" well P12 - installed 6/23/11
revised 12/4/92 arh Wel P12 Installed 6/2011
PBEr62Fg1Loc 5/31/12

well W1 installed 1989

wells P1,2,3,7 installed 1990 wells P9, P10 installed 5/94

wells P11, W2, 3, 4 installed 12/94

2" M Wells, destroyed 10/03

krh

6" Extraction Wells

△ 2" Temporary Well

