



#### State Water Resources Control Board

DEC 2 6 2013 RAS-CO Manufacturing Co Attn: Karniel Lang 413 West Sunset Boulevard Hayward, CA 94541 Alameda County
DEC 3 0 2013

Environmental Health

UNDERGROUND STORAGE TANK (UST) CASE, REMEDIAL ACTION COMPLETION CERTIFICATION: CASE RO0000164/CLAIM NO. 10081 413 WEST SUNSET BL., HAYWARD, CA 94541

Dear: Karniel Lang,

This letter confirms the completion of site investigation and corrective action for the underground storage tank(s) located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the underground storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this Agency was accurate and representative of site conditions, this Agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required. This notice is issued pursuant to subdivision (h) of Section 25296.10 of the Health and Safety Code.

Claims for reimbursement of corrective action costs submitted to the Underground Storage Tank Cleanup Fund more than 365 days after the date of this letter of issuance or activation of the Fund's Letter of Commitment, whichever occurs later, will not be reimbursed unless one of the following exceptions applies:

 Claims are submitted pursuant to Section 25299.57, subdivision (k) (reopened UST case); or,  Submission within the timeframe was beyond the claimant's reasonable control, ongoing work is required for closure that will result in the submission of claims beyond that time period, or that under the circumstances of the case, it would be unreasonable or inequitable to impose the 365-day time period.

DEU 28 2013

Please contact Robert Trommer at (916) 341-5684 if you have any questions regarding this matter.

Sincerely,

James Maughan, Acting Deputy Director

Division of Financial Assistance

Attachment: Case Closure Summary

cc: Alameda County

Environmental Health Department

Attn: Mark Detterman 1131 Harbor Bay Parkway Alameda, CA 94502

San Francisco Regional Water Quality Control Board Region 2 Attn: Cherie McCaulou 1515 Clay Street, Suite 1400 Oakland, CA 94612

Environmental Risk Specialties Corporation Attn: Kendall Price 2366 Walsh Avenue Santa Clara, CA 95051





### State Water Resources Control Board

### **UST CASE CLOSURE REVIEW SUMMARY REPORT**

Agency Information

Agency Name: Alameda County Health Care	Address: 1131 Harbor Bay Parkway
Services Agency (County)	Alameda, CA 94502
Agency Caseworker: Mark Detterman	Case No.: RO0000164

Case Information

USTCF Claim No.: 10081	Olahal ID. Toopped Car
	Global ID: , : T0600101947
Site Name: RAS-CO Manufacturing Co.	Site Address: 413 West Sunset Bl
<u>and the second and t</u>	Hayward, CA 94541
Responsible Party (RP): RAS-CO Mfg. Co., Responsible Party (RP): Responsible	Address: 413 West Sunset Bl
Attn: Karniel Lange Attn:	Hayward, CA 94541
USTCF Expenditures to Date: \$34,789	Number of Years Case Open: 18
(1) 1. 19 (1) 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	the same of the sa

## URL: http://geotracker.waterboards.ca.gov/profile report.asp?global id=T0600101947 The state of the second of the second section of the second secon

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 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 Case Information (Conceptual Site Model). Highlights of the a case follow: on the military six to stank throaters on the like the mile of the second and the figure

The Site is located at 413 West Sunset Boulevard in Hayward and is occupied by the RAS-CO Manufacturing Company building and yard as well as a house and garage. Two USTs were removed in November 1994 and over-excavation of affected soil to a depth of 21 feet. In 1999, one monitoring well was installed in the source area and sampled. Groundwater analytical results report non-detect concentrations of contaminants in groundwater.

The petroleum release was limited to the shallow soll and groundwater. No detectable concentrations of contaminants remain in the groundwater. There are no public supply wells regulated by the California Department of Public Health (CDPH) located within 250 feet of the Site. An on-Site domestic irrigation well (Ag Well) is located approximately 50 west of the former UST excavation. A door-to-door well survey was conducted by ERS in 2012. No additional water supply wells have been identified within 250 feet of the former source area. In 1996 a concentration of 1,200 micrograms per liter (µg/L) of methyl tert-butyl ether (MTBE) was reported in the on-site domestic irrigation well. Subsequent sampling in 1999 and 2010 showed no detections of any constituents including MTBE in either the source area well or the on-site domestic irrigation well. 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 groundwater are not threatened. Water is provided to water users near the Site by the East Bay Municipal Utilities District (EBMUD). Additional corrective action will not likely change the conceptual model. The corrective action performed is protective of human health, safety, and the environment.

RAS-CO Manufacturing Com 413 West Sunset Bl., Hayward Claim No.: 10081

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### Rationale for Closure under the Policy

General Criteria: The case meets all eight Policy general criteria.

Groundwater Specific Criteria: There are not sufficient mobile constituents (leachate, vapors, or light non-aqueous liquids [LNAPL]) to cause groundwater to exceed the groundwater criteria in

this Policy.

Vapor Intrusion to Indoor Air: The case meets Policy Criterion 2a. Site-specific conditions at the release site satisfy all of the characteristics and criteria of Scenario 3. Benzene concentrations are less than 100 milligrams per kilogram (mg/kg) in the upper 10 feet of soil (the bioattenuation zone) and groundwater reports benzene concentrations less than

100 micrograms per liter (μg/L).

Direct Contact and Outdoor Air Exposure: The case meets Policy Criterion 3a. Maximum concentrations in soil are less than those in Policy Table 1 and the concentration limits for Utility Worker are satisfied. 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. का अवस्थित के के अभवदेष्ट्री अपूर्ण के अवस्थित है जिस के अधिक कर कि कि अपूर्ण कर है। अपूर्ण कर कि अपूर्ण कर के

## Objections to Closure and Response as he are the confidence of th

The County objects to UST case closure for this case because:

Lateral and vertical extent of contamination is undetermined; onsite domestic irrigation well is possibly impacted but screen interval is undetermined. RESPONSE: Concentrations in groundwater in both the source area well (MW-1) and the onsite domestic irrigation well are at non-detect levels. There is no groundwater contaminant plume at the Site; this is a soils-only case.

Site Characterization has not been completed; potential risks and threats have not been fully

evaluated.

evaluated.
RESPONSE: Further characterization is unnecessary. There is no groundwater contaminant plume. Shallow soil concentrations are non-detect.

Well survey and conduit survey have not been conducted.

RESPONSE: A well and conduit survey was issued in May 2012 and is available on GeoTracker. There are not sufficient mobile constituents to cause groundwater to exceed the groundwater criteria; thus, nearby wells are not threatened. This is a soils-only case.

Onsite domestic irrigation well is a possible receptor, additional work is needed to determine if other vicinity residential/agricultural wells exist.

RESPONSE: In 1996 a concentration of 1,200 micrograms per liter (µg/L) of methyl tert-butyl ether (MTBE) was reported in the domestic irrigation well. Subsequent sampling in 1999 and 2010 showed no detections of any constituents including MTBE. Also, no concentrations of the constituents of concern have been reported in monitoring well MW-1, located in the former source area. There are no additional wells identified within 250 feet from the former source area. There are not sufficient mobile constituents to cause groundwater to exceed the groundwater criteria, thus, nearby wells are not threatened. This is a soils only case.

 Responsible Party has not responded to requests for work or Notice of Violation RESPONSE. The case meets the Policy criteria for closure. Additional work is not necessary. RAS-CO Manufacturing Company 413 West Sunset Bl., Hayward Claim No.: 10081

> Site not claimed in Geotracker, so well data are not uploaded. Well not surveyed to Geotracker standards.

RESPONSE: Review of GeoTracker shows that Site has been claimed. Available data are sufficient for an appropriate site conceptual model. Further data collection is not necessary.

### Determination

Based on the review performed in accordance with Health & Safety Code Section 25299.39,2 subdivision (a), the Fund Manager has determined that closure of the case is appropriate.

#### Recommendation for Closure

Based on available information, residual petroleum hydrocarbons at the Site do not pose significant risks 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. Alameda County has the regulatory responsibility to supervise the abandonment of monitoring wells.

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

Prepared by: Roger Hoffmore, P.G.

February 2013

RAS-CO Manufacturing Company 413 West Sunset Bl., Hayward Claim No.: 10081

## 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 All Carried States of the State of the State

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
16	□ Yes □ No ⊠ NA
	⊠ Yes □ No
Has the unauthorized ("primary") release from the UST system been stopped?  Has free product been removed to the maximum extent practicable?  Has a conceptual site model that assesses the nature, extent, and mobility	
of the release been developed?	The second secon

<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

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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	S 1960 D 16 ⊠ Yes □ No
site?	
Are there unique site attributes or site-specific conditions that demonstrably increase the risk associated with residual petroleum constituents?	□ Yes ⊠ No
Media-Specific Criteria	Min Tally Company
Media-Specific Criteria Candidate sités must satisfy all three of these media-specific criteria:	
- Consideration of a wint to a control for は 間 マケン 初日 2000	a savernouse there is a gradient
To satisfy the media-specific criteria for groundwater, the contaminant plume that	(中) (c. pl. )( (数) 2)(c)
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:	Lister Control
Is the contaminant plume that exceeds water quality objectives stable	
or decreasing in areai extent?	
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
Sagotts are part of the same	15 10 18 18 18 18 18 18 18 18 18 18 18 18 18
For sites with releases that have not affected groundwater, do mobile constituents (leachate, vapors, or light non-aqueous phase liquids)	☐ Yes ☒ No ☐ NA
constituents (leachate, vapors, or light hon-aqueous phase liquids) contain sufficient mobile constituents to cause groundwater to exceed the groundwater criteria?	Sad Milas Exist Existen
2. Petroleum Vapor Intrusion to Indoor Air:	essession of
The site is considered low-threat for vapor intrusion to indoor air if site-specific	r Hamits, dell
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.	पुरुष्टा है अपने के अपने किया है जिल्ला
Is the Site an active commercial petroleum fueling facility?  Exception: Satisfaction of the media-specific criteria for petroleum vapor	☐ Yes ⊠ No
intrusion to indoor air is not required at active commercial petroleum fueling	Secretary and a
I facilities except in cases where release characteristics can be reasonably	7 77 7
believed to pose an unacceptable health risk.  a. Do site-specific conditions at the release site satisfy all of the	ĬŶes □ No □ NA
applicable clial acteristics and criteria of section of a unough of the	
of the applicable characteristics and criteria of scenario 4?  If YES, check applicable scenarios: ☐ 1 ☐ 2 ☐ 3 ☐ 4	A Secretary Control
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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
Th	Direct Contact and Outdoor Air Exposure: e site is considered low-threat for direct contact and outdoor air exposure if e-specific conditions satisfy one of the three classes of sites (a through c).			
<b>a.</b>	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	⊠ <b>N</b> A
<b>C.</b>	As a result of controlling exposure through the use of mitigation measures or through the use of institutional or engineering controls, has the regulatory agency determined that the concentrations of petroleum constituents in soil will have no significant risk of adversely affecting human health?	□ Yes	□ No	⊠ NA

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**RAS-CO Manufacturing Company** 413 West Sunset Bl., Hayward

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

### Site Location/History of the companies of the control of the contr

The Site is located at 413 West Sunset Boulevard in Hayward.

- The Site is occupied by the RAS-CO Manufacturing Company building and yard as well as a house and garage. The Site is bounded by residences to the south, west and north and by Interstate Highway 880 to the east.
- The USTs were removed in November 1994 and over-excavation of affected soil occurred in the following months. In 1999, one monitoring well was installed and sampled.
- Site map showing the location of the former USTs and wells MW-1 and Ag Well is provided at the end of this closure review summary (Environmental Risk Specialties Corporation [ERS], 2011).
- Nature of Contaminants of Concern: Gasoline. Source: UST system.

- Date reported: November 1994. Status of Release: USTs removed.
- Free Product: None reported.

#### Tank Information

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Tank No.	Size in Gallons		Closed in Place/ Removed/Active	Date
1	500	Gasoline	Removed	November 1994
2	250	Gasoline	Removed	November 1994

#### Receptors

- GW Basin: Santa Clara Valley East Bay Plain.
- Beneficial Uses: Agricultural Supply, Municipal, and Domestic Supply.
- Land Use Designation Residential date to mention the property of the property
- C Public Water System: «East Bay Municipal Utilities District (EBMUD).
- Distance to Nearest Supply Well: According to data available in GeoTracker, there are no public supply wells regulated by CDPH within 250 feet of the defined plume boundary. An on-Site domestic irrigation well (Ag Well) is located approximately 50 west of the former UST excavation. A door-to-door well survey was conducted by ERS in 2012. No additional wells have been identified within 250 feet of the defined plume boundary in files reviewed.
  - Distance to Nearest Surface Water: No surface water identified within 250 feet of the defined plume boundary. (10) \$4. V(1) in #gr Magae 4 数 数.

### Geology/Hydrogeology

- Stratigraphy: The Site is underlain by sandy clay, fine-grained sands and silts to approximately 30 feet bgs.
- Maximum Sample Depth: 30 feet below ground surface (bgs).
- Minimum Groundwater Depth: 21.38 feet bgs at the Ag Well.
- Maximum Groundwater Depth: 23,06 feet bgs at the Ag Well.
- Current Average Depth to Groundwater: ~23 feet bas.
- Saturated Zones(s) Studied: 18 28 feet bgs.
- Appropriate Screen Interval: Yes.

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### RAS-CO Manufacturing Combany 413 West Sunset Bl., Hayward Claim No.: 10081

Groundwater Flow Direction: Regional groundwater flow is towards the west to northwest, generally towards San Francisco Bay. Monitoring wells MW-1 and Ag Well are located approximately 10 feet west and 60 feet west of the former excavation, respectively, and groundwater levels within these wells are consistent with regional data.

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1	Well Designation	Date Installed	Screen Interval	Depth to Water
ı :	ं वृद्धाने स्टिश्च है कि विक्रिक्ष संस्था है औ	<ul> <li>(항 解) 항설 (PPE) APP + 항전 보고를 하는 사람</li> <li>(**)</li> </ul>	(feet bgs)	(feet bgs)
	and the second second	1965年 1962年 - 1967年 - 1968年 - 1968年 - 1968年 - 1968年		(12/16/10)
Committee of the	MW-1	June 1999	18-28	22.59
	Ag Well	NA .	NA NA	23.06

# Remediation Summary

Free Product: None reported.

- Pree Product: None reported.

  Soil Excavation: Impacted soil (approximately 230 cubic yards) was removed to a depth of 21 feet bgs, remediated to non-detect levels, and reused on-Site as approved by County.
- In-Situ Soil/Groundwater Remediation: None reported.

Most Recent Concentrations of Petroleum Constituents in Soil\*

Constituent		n 0-5 feet bgs and (date)]	Maximum 5-10 feet bgs [mg/kg and (date)]		
Benzene was	15 四个多种。	<0.005 (10/03/95)			
Ethylbenzene (%)	· 高格爾尼印度河	<0.005 (10/03/95)	<0.005 (10/03/95)		
Naphthalene 70%	रिक्षा कर्म कर्म ।	NA NA	NA		
PAHs where we	(1981年1981)	Walter (\$\\ <b>NA</b> )	NA NA		

<sup>\*:</sup> Values reported for stockpiled soil which reported non-detect concentrations prior to use as backfill mg/kg: milligrams per kilogram, parts per million

PAHs: Polycyclic aromatic hydrocarbons

Output

t Concentrations of Petroleum Constituents in Groundwater

	WOSt Recent Concentrations of Fetroleum Constituents in Croundwater								
1	Sample	Sample	TPHg	Benzene	'Toluene	Ethylbenzene	Xylenes	MTBE	TBA
	TENNIN EIN	Date :	(µg/L)	ատ(μg/L);	್ಲ (μg/Ľ) ;	் பர் (µg/L)் ் ந	; (μg/L)	(μg/L)	(µg/L)
							<0.005	<0.50	
				<0.005			<0.005	≥<0.50	<10
						राष्ट्रिक प्रमुख्य का प्र	d		
				\$ 3 Mr. 1 121			1,750	5	12

pg/Lemicrograms per liter, parts per billion was a company of the <: 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, :Region 2 Basin Plan October 1990 1990 1990 1990 1990 1990 1990

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<sup>&</sup>lt;: Not detected at or above stated reporting limit

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#### **Groundwater Trends**

 Available data reports non-detect concentrations in groundwater, although Ag Well was reported to have MTBE in one sample in 1996. There is no groundwater plume.

### **Evaluation of Current Risk**

- Estimate of Hydrocarbon Mass in Soil: None reported.
- Soil/Groundwater tested for MTBE: Yes, see table above.
- Plume Length: No plume.
- Plume Stable or Degrading: No plume.
- Contaminated Zone(s) Used for Drinking Water: No.
- Oxygen Concentrations in Soil Vapor: None reported.
- Groundwater Risk from Residual Petroleum Hydrocarbons: There are not sufficient mobile
  constituents (leachate, vapors, or light non-aqueous liquids [LNAPL]) to cause groundwater to
  exceed the groundwater criteria in this Policy.
- Indoor Vapor Risk from Residual Petroleum Hydrocarbons: The case meets Policy Criterion 2a. Site-specific conditions at the release site satisfy all of the characteristics and criteria of scenario 3. Benzene concentrations are less than 100 mg/kg in the upper 10 feet of soil (the bioattenuation zone) and groundwater reports benzene concentrations less than 100 μg/L.
- Direct Contact Risk from Residual Petroleum Hydrocarbons: The case meets Policy Criterion 3a. Maximum concentrations in soil are less than those in Policy Table 1 and the concentration limits for Utility Worker are satisfied. 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.

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