

**ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY**

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, Director

August 3, 1995

STID # 4885

REMEDIAL ACTION COMPLETION CERTIFICATION

MS. Rose Bertolero  
5900 Acacia Avenue  
Oakland, CA - 94618

Ref: Residential Property, 5900 Acacia Ave, Oakland, CA

Dear Ms. Bertolero:

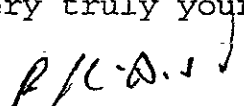
This letter confirms the completion of site investigation and remedial action for the one 350 gallon heating oil underground storage tank at the above mentioned location.

Based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, Division 3, Chapter 16, Section 2721 (e) of the California Code of Regulations.

Please contact Madhulla Logan at (510) 567-6764 if you have any questions regarding this matter.

Very truly yours,

  
Rafat A. Shahid  
Assistant Agency Director

cc: Tom Peacock, Acting Chief of Hazardous Materials Division  
Kevin Graves, RWQCB  
Mike Harper, SWRCB (with attachment)  
files

DEPARTMENT OF ENVIRONMENTAL HEALTH  
Environmental Protection Division  
1131 Harbor Bay Parkway, #250  
Alameda, CA 94502-6577  
(510) 567-6700

EMERGENCY  
105 JUL 20 PM 4:35

### CASE CLOSURE SUMMARY

#### Leaking Underground Fuel Storage Tank Program

#### I. AGENCY INFORMATION

Date:05/17/95

Agency name: **Alameda County-HazMat** Address: **1131 Harbor Bay Pkwy** City/State/Zip: **Alameda, CA - 94502** Phone: **(510) 567-6764**  
Responsible staff: **Madhulla Logan** Title: **Hazardous Materials Spec.**

#### II. CASE INFORMATION

Site facility name: Residential  
Site facility address: **5900 Acacia Avenue, Oakland, CA - 94618**

RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **4885**  
URF filing date: **02/01/95** SWEEPS No: **N/A**

<u>Responsible Parties:</u>	<u>Addresses:</u>	<u>Phone</u>
<u>Numbers:</u>		
Rose Bertolero	5900 Acacia Avenue, Oakland, CA - 94618	(510) 945 - 1667

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	350 gallon	Heating Oil	removed	05/5/94

#### III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: leak, diesel

Site characterization complete? YES

Date approved by oversight agency:

Monitoring wells installed? NO

Proper screened interval? Not Applicable

Highest GW depth below ground surface: More than 100 feet as site is located in the Oakland hills.

Most sensitive current use: Not Drinking (others not determined)

Are drinking water wells affected? Not Known

Is surface water affected? N/A Nearest affected SW name:N/A

Off-site beneficial use impacts (addresses/locations): Not Known

Report(s) on file? YES Where is report(s) filed? **Alameda County**  
**1131 Harbor Bay Parkway**  
**Alameda, CA - 94502**

**III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued)**

**Treatment and Disposal of Affected Material:**

<u>Material</u>	<u>Amount (include units)</u>	<u>Action (Treatment of Disposal w/destination)</u>	<u>Date</u>
Tank	350 gallon	Erickson, Richmond CA	5/5/94
Fuel	90 gallon	Petroleum Refining Corp Patterson, CA	milk run date not available

**Maximum Documented Contaminant Concentrations - - Before and After Cleanup**

<u>Contaminant</u>	<u>Soil (ppm)</u>	
	<u>Before</u>	<u>After</u>
TPH (Gas)	NA	NA
TPH (Diesel)	2100	2100
Benzene	0.017	0.017
Toluene	0.013	0.013
Xylene	0.36	0.36
Ethylbenzene	0.096	0.096
Oil & Grease	3500	3500

**Comments (Depth of Remediation, etc.):**

An initial soil sample collected during tank removal had 1300 ppm of TPHd. Later five soil borings were drilled to a depth of approximately 3.7 feet around the tank pit. Bedrock encountered at 2.5 to 3.7 feet depth prevented deeper drilling. The above mentioned concentrations are from borehole samples. Diesel and oil and grease were encountered in all 5 samples with a highest hit of 2100 ppm and 3500 ppm respectively. Benzene was found in one out of five samples at a concentration of 0.017 ppm. (Attached site plan and soil results).

**IV. CLOSURE**

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Undetermined (soils only case)

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Undetermined (soils only case)

Does corrective action protect public health for current land use? YES

Site management requirements: NA

Should corrective action be reviewed if land use changes? No

Monitoring wells Decommissioned: Not Applicable

Number Decommissioned: NA

**V. LOCAL AGENCY REPRESENTATIVE DATA**

Name: Madhulla Logan Title: Hazardous Materials Spec  
Signature: Date: 05/17/95

**Reviewed by**

Name: Barney Chan Title: Hazardous Materials Spec  
Signature: *Barney Chan* Date: 7/3/95

Name: Eva Chu Title: Hazardous Materials Spec  
Signature: *Eva Chu* Date: 6/21/95

**VI. RWQCB NOTIFICATION**

Date Submitted to RB: *7/8/95* RB Response: *Approved*  
RWQCB Staff Name: Kevin Graves Title: San. Engineering Asso.  
Date: *7/17/95* *K. Graves*

**VII. SUMMARY**

One 350 gallon home heating oil tank was removed on May 5, 1994. One soil sample was collected during tank removal. Laboratory results of the soil samples indicated upto 1300 ppm of diesel. No other chemical was analyzed. After tank removal and initial soil sampling, five soil borings were drilled around the tank. The highest concentration of diesel and oil and grease obtained in the samples were 2100 ppm and 3500 ppm respectively. Benzene was found in one out of five samples at 0.017 ppm.

**Rationale:**

1. Concentrations of benzene-17 ppb in soil poses no threat to human health.
2. No problem with contaminants leaching to the ground water, as groundwater depth exceeds 100 feet bgs based on other site information and also because site is located on a hill. Also, bedrock is present at 3.5 feet as discovered during drilling.
3. Naphthalene makes about 0.13% of diesel and that would be 0.13% of 2100, which is 2.73 ppm. This concentration does not pose a human health risk based on the RBCA look-up table values.

# CAMBRIA

**Table 1. Soil Analytic Data - 5900 Acacia Avenue, Oakland, California**

Boring ID	Date Sampled	Sample Depth (ft)	TPHd	POG	(Concentration in mg/kg)			
					Benzene	Toluene	Ethylbenzene	Xylenes
SB-1	10/20/94	2.75	2,100	1,200	nd	0.013	0.030	0.110
SB-2	10/20/94	2.75	950	660	nd	nd	0.031	0.029
SB-3	10/20/94	2.5	250	85	nd	nd	nd	nd
SB-4	10/20/94	2.5	48	130	nd	nd	nd	nd
SB-5	10/20/94	3.75	1,800	3,500	0.017	0.012	0.096	0.36

**Abbreviations**

TPHd = Total petroleum hydrocarbons as diesel by modified EPA Method 8015

POG = Petroleum oil and grease by EPA Method 5520 E/F

nd = Not detected



House

Planter

Planter

SB-4

SB-3

SB-5

SB-1

SB-2

Former Heating Oil Tank

Yard

Brick Wall

Planter

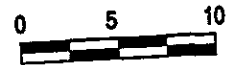
Adjacent Property

1800

950

250

Acacia Avenue



Approx. Scale (ft)

**CAMBRIA**  
Environmental Technology, Inc.

EXPLANATION

SB-1  
⊕ Soil Boring Location

Soil Sample Locations

Rose Bertolero  
5900 Acacia Avenue  
Oakland, California

FIGURE

**2**