

REJECTED
BY RWQCB
04/1998

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: March 20, 1998

Agency name: Alameda County-HazMat Address: 1131 Harbor Bay Pkwy
City/State/Zip: Alameda, CA 94502 Phone: (510) 567-6700
Responsible staff person: Eva Chu Title: Hazardous Materials Spec.

II. CASE INFORMATION

Site facility name: Unocal Service Station #6419
Site facility address: 6401 Dublin Blvd, Dublin, CA 94568
RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 2096
URF filing date: SWEEPS No: N/A

Responsible Parties: Addresses: Phone Numbers:

- | | |
|--|---|
| 1. Angelo Gaspare Trust
445 Marine View #270
Del Mar, CA 92014 | 2. Tina Berry
Unocal
P.O. Box 5155
San Ramon, CA 94583 |
|--|---|

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	10,000	Gasoline	Removed	9/7/93
2	10,000	"	"	"
3	550	Waste Oil	"	"
4	520	Waste Oil	Removed	9/1996

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Unknown
Site characterization complete? YES
Date approved by oversight agency: 1/16/98
Monitoring Wells installed? Yes Number: 3
Proper screened interval? Yes, 4' to 19' bgs
Highest GW depth below ground surface: 5.73' Lowest depth: 9.03' in MW1
Flow direction: SW
Most sensitive current use: Commercial
Are drinking water wells affected? No Aquifer name: Dublin Subbasin
Is surface water affected? No Nearest affected SW name: NA
Off-site beneficial use impacts (addresses/locations): None

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

Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount</u> (include units)	<u>Action (Treatment</u> <u>or Disposal w/destination)</u>	<u>Date</u>
Tank	3 USTs	Disposed by H & H, San Francisco	9/93
	1 UST	Disposed by Erickson, Richmond	9/96
Piping			
Soil	750 cy	Disposed at BFI L.F, Livermore	9/93
	100 cy	Disposed at Forward L.F., Stockton	9/93
Groundwater	19,000 gallon	pumped by H & H, San Francisco	9/93

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

<u>Contaminant</u>	<u>Soil (ppm)</u>		<u>Water (ppb)</u>	
	<u>Before¹</u>	<u>After²</u>	<u>Before³</u>	<u>After⁴</u>
TPH (Gas)	9.7		9,200	ND
TPH (Diesel)	ND		910	200
Benzene	0.15		48	ND
Toluene	1.2		3.0	ND
Ethylbenzene	0.36		560	ND
Xylenes	2.4		38	ND
MtBE	NA		1,300	100

Oil & Grease
 Heavy metals w/in geogenic levels
 Other

- NOTE: 1 from product trench, 9/93
 2 no confirmatory soil sampling after fuel pit was excavated to 16.5' bgs
 3 maximum groundwater concentration from well MW1
 4 recent sampling event, 8/97

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? _____
 Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? _____
 Does corrective action protect public health for current land use? **YES**
 Site management requirements: **None**
 Should corrective action be reviewed if land use changes? **YES**
 Monitoring wells Decommissioned: **No, pending site closure**
 Number Decommissioned: 0 Number Retained: 3
 List enforcement actions taken: **None**
 List enforcement actions rescinded: **NA**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Eva Chu Title: Haz Mat Specialist

Signature: *[Signature]* Date: 4/17/98

Reviewed by

Name: Larry Seto Title: Sr. Haz Mat Specialist

Signature: *[Signature]* Date: 4/15/98

Name: Thomas Peacock Title: Supervisor

Signature: *[Signature]* Date: 4-17-98

VI. RWQCB NOTIFICATION

Date Submitted to RB:

RB Response: *Do not concern. UP dg of method for notes confusion w/ method 8260*

RWQCB Staff Name: Chuck Headlee Title: AEG

Signature: Date:

VII. ADDITIONAL COMMENTS, DATA, ETC.

In September 1993 three USTs (2-10K gasoline, 1-550 gallon waste oil USTs) in a common pit were removed, along with the associated piping. Soil samples D1 through D8 were collected from beneath the dispensers at depths ranging from 2.5' to 5.5' bgs; soil samples P1 through P7 were collected from the product piping trenches at depths ranging from 3' to 7' bgs. Because groundwater was in the pit at ~14' bgs, soil samples SW1 through SW5 were collected from the sidewalls at 13.5' bgs; soil samples B1 and B2 were collected from the fuel tank pit bottom at ~17' and 15.5' bgs, respectively; and, sample W01 was collected from beneath the waste oil tank at ~8' bgs (see Fig 1 and 2). All soil samples were analyzed for TPHg, BTEX, and total lead. In addition, sample W01 was also analyzed for TPHd, TOG, HVOC, and the metals Cd, Cr, Pb, Ni, and Zn.

The fuel tank pit was excavated to a depth of ~16.5' bgs. Approximately 7,000 gallons of water was pumped from the pit. Water was allowed to recharge. A sheen was observed on the water. Grab groundwater sample W1 was collected. Sample W1 was analyzed for TPHg, BTEX, TPHd, TOG, HVOC and the 5 metals. A few days later ~12,000 gallons of groundwater was pumped from the pit and allowed to recharge before water sample W2 was collected. New USTs (2-12K gallon fuel and 1-520 gallon waste oil USTs) were installed in the existing pit.

Maximum TPHg concentration identified in soil was 6.8 ppm and maximum benzene concentration was 0.15 ppm. TOG, TPHd, and HVOC were not detected. Metal concentrations were within acceptable geogenic levels. The grab water sample, however, contained up to 530ppb TPHd, 2,600 ppb TPHg, and 33, 19, 150, and 190 ppb BTEX, respectively. Low levels of the metals were also detected in groundwater. (See Tables 1 and 2)

In February 1994 three groundwater monitoring wells (MW1 through MW3) were installed at the site. Silty clay and clayey silt sediments were encountered to 20' bgs (maximum depth of each boring). Soil samples collected from each boring did not contain TPHg or BTEX. (See Fig 3, Table 3, and Boring Logs)

Groundwater has been sampled from March 1994 to August 1997. Hydrocarbon levels have shown a continuous decline. The most recent sampling event, in August 1997, did not identify TPHg or BTEX. Low levels of MtBE (~100ppb) is still identified in groundwater (see Table 4), however, shallow groundwater in the vicinity is not a source of drinking water.

In September 1996 the service station was remodeled. The waste oil UST was removed. New product lines and dispensers were installed. A new station building and car wash were also constructed. Continued groundwater monitoring is not warranted at this time.

In summary, case closure is recommended because:

- o the leak and ongoing sources have been removed;
- o the site has been adequately characterized;
- o the dissolved plume is not migrating;
- o no water wells, surface water, or other sensitive receptors are likely to be impacted; and,
- o the site presents no significant risk to human health or the environment.