

DAVID J. KEARS, Agency Director

September 25, 1996

ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, #250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

Harry Mary Start Brown Starte - 1 1 - 4

## REMEDIAL ACTION COMPLETION CERTIFICATION

Ms. Marianne Robison
Buttner Properties
600 West Grand Avenue
Oakland, California 94612

RE: Buttner Properties
4055 Hubbard Street, Emeryville, California 94608
STID # 259

Dear Ms. Robison:

This letter confirms the completion of site investigation and remedial action for the two underground storage tanks (4,000 gallon diesel and 1,000 gallon gasoline / diesel) removed on July 17, 1990 and July 20, 1990 at the above described location. Enclosed is the Case Closure Summary for the referenced site for your records.

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

This notice is issued pursuant to a regulation contained in Title 23, California Code of Regulations, Division 3, Chapter 16, Section 2721 (e). If a change in the present land use is proposed, the property owner must promptly notify this agency.

Please contact Susan L. Hugo at (510) 567-6780 if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung, Director

Enclosure

c: Gordon Coleman, Acting Chief, Environmental Protection - files
Kevin Graves, RWQCB
Lori Casias, SWRCB (with enclosure)
Jerriann Alexander, SCI, 3736 Mt. Diablo Blvd., Suite 200
Lafayette, CA 94549

# CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION Date: February 23, 1996

Agency name: Alameda County-HazMat Address: 1131 Harbor Bay Parkway

City/State/Zip: Alameda, CA 94502 Phone: (510) 567-6700

Responsible staff person: Susan Hugo Title: Sr. Hazardous Materials Spec.

#### II. CASE INFORMATION

Site facility name: Buttner Properties

Site facility address: 4055 Hubbard Street, Emeryville, CA 94608

RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 259

URF filing date: 11/29/90 SWEEPS No: N/A

## Responsible Parties: Addresses: Phone Numbers:

Buttner Properties 600 West Grand Avenue Attn: Ms. Marianne Robison Oakland, CA 94612

Tank No:	Size in gal.:	<u>Contents:</u>	<pre>Closed in-place or removed?:</pre>	<u>Date:</u>
1	4,000 gallon	Diesel	Removed	7/17/90
2	1,000 gallon	Diesel/Gasoline	Removed	7/20/90

## III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Unknown, probably from overfilling

Site characterization complete? YES

Date approved by oversight agency: 5/26/92

Monitoring Wells installed? YES Number: Three (3)

Proper screened interval? YES

Highest GW depth below ground surface: 2.34 feet Lowest depth: 4.90 feet

Flow direction: Predominantly west

Most sensitive current use: Light Industrial

Are drinking water wells affected? NO Aquifer name: NA Is surface water affected? NO Nearest affected SW name: NA Off-site beneficial use impacts (addresses/locations): NA

Report(s) on file? YES Where is report(s) filed? Alameda County
1131 Harbor Bay Parkway, Alameda, CA 94502-6577

## Treatment and Disposal of Affected Material:

<u>Material</u>	Amount	Action (Treatment	<u>Date</u>
Tank	(include units) 1 - 4,000 gallon 1 - 1,000 gallon	of Disposal w/destination) H & H, San Francisco, CA H & H, San Francisco, CA	7/17/90 7/20/90
Soil	180 yards	BFI Keller Canyon Landfill Pittsburg, CA	10/3/94
Product/wat	er 1300 gallons	H & H, San Francisco, CA	11/25/92

## Leaking Underground Fuel Storage Tank Program

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued)

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant Soil (ppm) Water (ppb)

COlleanThaile	BOTT (D	Prit,		Marcer /	(PPD)
	* <u>Before</u>	<u> After</u>		<u>Before</u>	After
TPH (Gas)	ND	97	**	1,700	91
TPH (Diesel)	10,000	1,700	***	490,000	ND
Benzene	0.047	0.016	***	4.0	ND
Toluene	0.15	0.034	**	0.9	ND
Xylene	0.22	0.17	**	8.2	ND
Ethylbenzene	0.06	0.099	**	2	ND
Oil & Grease	7,800	690	****	230,000	ND
Total Lead			**	6	ND

- \* Soil sample collected from about 8 inches below the dispenser island.
- \*\* Grab water sample collected from the dispenser pit.
- \*\*\* Grab water sample collected from the diesel/gasoline tank excavation.
- \*\*\*\* Grab water sample collected from the common excavation pit on 11/25/92.

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

In July 1990, the 4,000 gallon diesel tank was removed from the site. The fuel island appeared to be for two dispensers but only one dispenser was present and capped pipes were visible at the location for the second dispenser. Excavation activities in the area of the pipes uncovered another tank, approximately 1,000 gallon in capacity and may have been used for both diesel and gasoline. Soil and grab water samples were subsequently collected following the tank removals. Low concentration of TPH diesel (up to 27 ppm), benzene (up to 16 ppb), toluene (up to 34 ppb), xylene (up to 34 ppb) and ethyl benzene (up to 14 ppb) were found in the soil samples collected from the bottom of the two tank excavations. TPH gasoline and TOG were not detected. The soil sample from the dispenser island showed elevated levels of TPH diesel (10,000 ppm), TOG (7,800 ppm), benzene (47 ppb), toluene (150 ppb), xylene (220 ppb) and ethyl benzene (60 ppb). In addition, the grab water samples collected from the tank excavations and the dispenser island showed high levels of petroleum hydrocarbon as listed in the above table.

Since the excavation was adjacent to the right-of-way, the stockpiled soil was temporarily used as backfill material.

In November 1992, approximately 150 cubic yards of contaminated soil from the previous tank excavation and the dispenser area was removed. Verification soil samples collected from the excavation walls showed low concentrations of petroleum hydrocarbon remain at the site (see "after" soil concentration listed above). The stockpiled soil detected levels of petroleum hydrocarbon, PNAs and metals as listed in Table 3. The excavated soil was disposed off-site.

## Leaking Underground Fuel Storage Tank Program

IV.	CLO	CITD	Tr.
<b>_</b>	$\sim$ $\mu$	$\sigma u x$	. –

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Undetermined

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Undetermined

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

Site management requirements: NA

Should corrective action be reviewed if land use changes? YES

Monitoring wells Decommissioned: No, will decommission upon case closure

Number Decommissioned: NA Number Retained: 3

List enforcement actions taken: NA

List enforcement actions rescinded: NA

### V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Susan L. Hugo Title: Sr. Hazardous Materials Specialist

Signature: Ausun 2 Hugo Date: 3/6/96

Reviewed by

Name: Barney Chan Title: Hazardous Materials Specialist

Signature: Banes Che Date: 3/4/96

Name: Thomas Peacock Title: Sup. Hazardous Materials Specialist

Signature: MANA Date: 3-6-96

VI. RWOCH NOTIFICATION

Date Submitted to RB: 3/22/96

RWQCB Staff Name: / Kevin Graves Title: Water Resources Control Engineer

Date: 9/16/96

RB Response: Anno

Page 3 of 4

## Leaking Underground Fuel Storage Tank Program

## VII. ADDITIONAL COMMENTS, DATA, ETC.

On June 2, 1993, three shallow groundwater monitoring wells (MW-1, MW-2 & MW-3) were installed at the site. Soil samples collected at depths ranging from 2.5 to 3.5 feet bgs from the borings found low levels of TPH diesel (nd to 10 ppm) and no detectable concentration of TPH gasoline, TOG and BTEX. The first five monitoring events did not detect TOG and BTEX. These target compounds were subsequently dropped from the monitoring program. Nine consecutive quarters of monitoring (6/93 to 8/95) have been conducted at the subject site. TPH diesel (nd to 560 ppb) and TPH gasoline (nd to 280 ppb) were detected in the downgradient wells MW-1 and MW-3. However, similar concentrations of TPH diesel (nd to 590 ppb) and TPH gasoline (nd to 210 ppb) were consistently detected in the upgradient well MW-2. The last sampling event found no detectable level of TPH diesel in the three wells and low concentrations of TPH gasoline ranging from nd to 91 ppb.

The rationale for recommending case closure for the subject site are as follows:

- BTEX and TOG were not detected in the three wells during the first five monitoring events and subsequently dropped from the monitoring program.
- 2) Contaminated soil (150 cubic yards) had been excavated in the former dispenser island and around the former tank areas. Low levels of petroleum hydrocarbon as listed in the above table remain at the site.
- 3) The groundwater plume appears to be stable and the levels have significantly decreased during the two years of monitoring.
- 4) The site presents no significant risk to human health and the environment.

Table 1.

CONTAMINANT CONCENTRATIONS IN SOIL

Sample	TVH	TEH	TOG	Benzene	Toluene	Xylene	Ethylbenzene	Lead
Designation	(mg/kg)	(mg/kg)	(mg/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(mg/kg
990 Excavation								
1 @ 5'	T NO	<10	<50	<5	<5	<5	<5	-
2 @ 5'	NP-	<10	<50	<5	<5	23	<5	-
3 @ 10'	NO.	24	<50	16	34	34	14	-
4 @ 3'	ND	<10	<50	<5	7.0	14	<5	-
5 @ 5'	NO-	<10	<50	<5	<5	<5	<5	-
6@10'	IYD.	27	<50	<5	<5	<5	<5	
7 @ 5'	NO-	<10	<50	<5	<5	<5	<5	-
8 @ 5'	NO-	<10	<50	<5	<5	<5	<5	-
9 @ 5'	ND-	<10	<50	<5	<5	<5	<5	_
Dispenser	ND-	10,000	7,800	47	150	220	60	-
1992 Excavation	<del></del>		1		1 -		-	
10 @ 6'	<1	3	<50	<5	<5	<u>&lt;5</u>	<5	3
11 @ 5'	<1	<1	<50	<5	<5_	< <u>5</u>	<5	3
12 @ 4'	<1	3	<50	<5	<5	<u>&lt;5</u>	<5	4
13 @ 4'	<1	5	<50	<5	<5	<u>&lt;5</u>	<5	5
14@3'	<1	220	190	<b>&lt;</b> 5	<5	<5	<5 	120
15 @ 3'	<1	1,100	690	<5	<5	34	15	72
16 @ 3'	97	1,700	420	<5	27	45	99	9
17 @ 3'	44	490	190	<5	, 20	170	76	20
	27	450	310	<5 -	<5	35	62	5
18 @ 5'		4	<50	<5	<5	<5	<5	4
18 @ 5' 19 @ 5' 20 @ 7'	<1 <1	3	<50	<5	<5	<5	<5	3

#### 1993 Groundwater Investigation

lſ	MW-1 @ 3.5'	<1	<1	<50	<5	<5_	<5	´ <b>&lt;</b> 5	*
• [	MW-2 @ 3.0'	<1	9	<50	<b>√</b> 5	<5	<5	<5	-
.	MW-3 @ 2.5'	· <1	10	<50	<5	<5	<5	<5	-

TEH - Total Volatile Hydrocarbons

TEH = Total Extractable Hydrocarbons

TOG = Total Oil and Grease

mg/kg = milligrams per kilogram = parts per million

ug/kg = micrograms per kilogram = parts per billion

<1 = chemical not present at a concentration greater than the detection limit stabled

- = analysis not performed

Table 2.

CONTAMINANT CONCENTRATIONS IN WATER

Sample Designation	Date	TVH (ug/l)	TEH Diesel (ug/l)	TOG (mg/l)	Benzene (ug/l)	Toluene (ug/l)	Xylene (ug/l)	Ethylbenzene (ug/l)	Lead (ug/l)
ccavation Wat	er								
Tank 1 Excavation	7/23/90	<500	250,000	<20	3.1	<1	<1	<1	•
Tank 2 Excavation	7/23/90	<500	490,000	<20	4.0	<1	<1	<1	-
Tank Excavation	11/25/92	440	15,000	230	2.0	0.7	2.1	<0.5	<3
Dispenser Pit	11/25/92	1700	15,000	25	<0.5	0.9	8.2	2	6
Ionitoring Wel	i Water								
MW-1	6/2/93 9/15/93	160 120	<50 <50	<5 <5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	-
MW-2	6/2/93 9/15/93	210 150	150 50	<5°	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	-
MW-3	6/2/93 9/15/93	280 180	1 <b>70</b> <50	<5 <5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	-

TVH = Total Volatile Hydrocarbons

TEH = Total Extractable Hydrocarbons

TOG - Total Oil and Grease

mg/l = milligrams per liter = perts per million

ug/l = micrograms per liter = parts per billion

<0.5 = chemical not present at a concentration greater than the detection limit stated

Table 3.
CONTAMINANT CONCENTRATIONS IN STOCKPILED SOIL

Sample Designation	Gasoline (mg/kg)	Diesei (mg/kg)	TOG (mg/kg)	Benzene (ug/kg)	Toluene (ug/kg)	Total Xylenes (ug/kg)	Ethyl- Benzene (ug/kg)	EPA 8240 Compounds	2-Methyl- Napthalene (ug/kg)	Phenanthrene (ug/kg)	Other EPA 8270 Compounds (ug/kg)
990 Investigation											
SP-1, 3, 5, 7	-	820	490	<5	<5	40	<5	ND	1,400	590	ND
992 Investigation											
SP-A, B, C, D	11	930	800		-		-	ND	<u> </u>		
SP-E, F, G, H	2	500	640	<del></del>	<5 T	<5 T	<5	· · · · · · · · · · · · · · · · · · ·			<u> </u>

	Total Metal Concentrations	Soluble Metal Concentrations
	SP-1, 3, 5, 7	SP-A, B, C, D
Anthon	(mg/kg)	(ug/i)
Antimony	<5	400
Arsenic	6.2	2,000
Barlum	95	5,800
Beryllium	<0.5	20
Cadmium	3.8	<30
Chromium (total)	40	
Cobalt	11	1,400
Copper	130	<b>420</b> <50
Lead		
<del></del>	67	1,000
Mercury	<0.1	<0.1
Molybdenum	<0.5	<70
Nickel	37	1,800
Selenium	<2.5	<30
Silver	<1	<50
hallium	<5	<3,000
/anadium	26	1,100
Zinc	200	12,000

Table 4: Contaminant Concentrations in Groundwater

Designation	1 <u>Date</u>	TVH (ug/l)	TEH (ug/l)	TOG (mg/l)	Benzene (ug/l)	Toluene (ug/l)	Xylene (ug/l)	Ethyl benzene (ug/l)	Lead (ug/l)
MW-1	6/2/93	160	<50	<5	<0.5	<0.5	<0.5	-O #	
	9/15/93	120	<50	<5	<0.5	<0.5	<0.5	<0.5	
	12/23/93	120	310	<5	<1.5	<1.5	<0.5 <1.5	<0.5	
	4/5/94	130	<50	<5	<0.5	<0.5	<0.5	<1.5	
	8/26/94	74	560	<5	<0.5	<0.5		<0.5	
	11/11/94	140	<50				<0.5	<0.5	
	2/17/95	<50	230				~~		<3.0
	5/15/95	66	<50						~-
	8/15/95	<50	<50	•			-		
MW-2	6/2/93	210	150	<5	<0.5	<0.5	-O. F		
	9/15/93	150	50	<5	<0.5	<0.5	<0.5	<0.5	
	12/23/93	140	220	<5	<1.5	<0.5 <1.5	<0.5	<0.5	
	4/5/94	150	< <b>5</b> 0	<5	<0.5	<0.5	<1.5	<1.5	
	8/26/94	70	590	<5	<0.5	<0.5	<0.5	<0.5	
	11/11/94	===	**		~0.J		<0.5	<0.5	
	2/17/95	<50	230			••			<3.0
	5/15/95	(78)	<b>₹50</b>		}	/			
			000		· ==			~-	
MW-3	6/2/93	280	170	<5	<0.5	<0.5	<0.5	-0 F	
	9/15/93	180	<50	<5	<0.5	<0.5	<0.5	<0.5	
	12/23/93	190	250	<5	<1.5	<1.5		<0.5	
	4/5/94	240	280	<5	<0.5	<0.5	<1.5	<1.5	
	8/26/94	130	520	<5	<0.5		<0.5	<0.5	
	11/11/94	170	<50				<0.5	<0.5	
	2/17/95	120	170	***			70		<3.0
	5/15/95	130	<50						
	8/15/95	91	<b>(50)</b>		-				
		ري	رين			~-	<b></b>		

TVH = Total volatile hydrocarbons

TEH = Total extractable hydrocarbons

TOG = Total oil and grease

mg/l = Milligrams per liter = parts per million

ug/l = Micrograms per liter = parts per billion

<0.5 = Chemical not present at a concentration greater than the detection limit stated

-- = Not requested

Table 5. Groundwater Elevation Data

Well <u>Number</u>	TOC Elev <sup>1</sup> (feet)	<u>Date</u>	Groundwater Depth <sup>2</sup> <u>(feet)</u>	Groundwater Elevation <u>(feet)</u>
MW-1	3.64	6/1/93	3.63	0.01
		9/15/93	4.47	-0.83
•		12/23/93	3.47	0.17
		4/5/94	3.85	-0.21
		8/26/94	4,29	-0.65
		11/11/94	2.83	0.81
		2/17/95	3.74	-0.10
		5/15/95	3.91	-0.27
		8/15/95	4.14	-0.50
MW-2	4.95	6/1/93	3,65	1.30
		9/15/93	4.90	0.05
		12/23/93	3,45	1.50
		4/5/94	4.01	0.94
		8/26/94	4.72	0.23
		11/11/94	2.34	2.61
		2/17/95	3.80	1.15
		5/15/95	3,68	1.27
		8/15/95	4.43	0.52
MW-3	3.61	6/1/93	3.29	0.32
		9/15/93	4.32	-0.71
		12/23/93	3.32	0,29
		4/5/94	3.74	-0.13
		8/26/94	4.30	-0.69
		11/11/94	3.05	0.56
		2/17/95	3,64	-0.03
		5/15/95	3.52	-0.09
		8/15/95	4.23	-0.62

<sup>&</sup>lt;sup>1</sup> City of Oakland Datum <sup>2</sup> Measured below TOC







