ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

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

November 25, 1998
StID# 1421

Mr. Joseph De Young
1919 Webster St.
Oakland, CA 94612

RE: Fuel Leak Site Case Closure, 4801 Oakport St., Oakland CA 94601

Dear Mr. De Young:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with the Health and Safety Code, Chapter 6.75 (Article 4, Section 25299.37 h). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Health Services, Local Oversight Program (LOP) is required to use this case closure letter. We are also enclosing the case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site.

Site Investigation and Cleanup Summary:

Please be advised that the following conditions exist at the site:

* 1100 parts per billion (ppb) Total Petroleum Hydrocarbons as diesel remain in groundwater at the site.

This site should be included in the City's permit tracking system. Please contact me at (510) 567-6765 if you have any questions.

Sincerely,

Barney M Chan

Barney M. Chan
Hazardous Materials Specialist

enclosures: Case Closure Letter, Case Closure Summary

c: Mr. L. Griffin, City of Oakland OES, 505 14th St., Suite 702, Oakland CA 94612
B. Chan, files (letter only)
Trlt4801Oakport

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November 25, 1998
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REMEDIAL ACTION COMPLETION CERTIFICATION

Mr. Joseph De Young
PG&E
1919 Webster St.
Oakland CA 94612

RE: PG&E Service Center, 4801 Oakport St., Oakland 94601

Dear Mr. De Young:

This letter confirms the completion of site investigation and remedial action for the one (1) 12,000 gallon UL gasoline, the one (1) 10,000 gallon diesel and the one (1) 1000 gallon waste oil tank at the above described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground tank is greatly appreciated.

Based upon the available information and with provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank releases 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 Barney Chan at (510) 567-6765 if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung
Director, Environmental Health

c: B. Chan, Hazardous Materials Division-files
Chuck Headlee, RWQCB
Mr. Dave Deaner, SWRCB Cleanup Fund
Mr. Leroy Griffin, City of Oakland OES, 505 14th St., Suite 702, Oakland CA 94612
Mr. F. Flint, PG&E Technical and Ecological Services, 3400 Crow Canyon Rd., San Ramon, CA 94583

RACC4801

0-11 73

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION **Date:** 5/07/97

Agency name: **Alameda County-HazMat** Address: **1131 Harbor Bay Parkway Rm 250, Alameda CA 94502**

City/State/Zip: **Alameda** Phone: **(510) 567-6700**

Responsible staff person: Barney Chan Title: **Hazardous Materials Spec.**

II. CASE INFORMATION

Site facility name: Pacific Gas and Electric Service Center

Site facility address: 4801 Oakport St., Oakland CA 94601

RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: 1421

ULR filing date: SWEEPS No: **N/A**

Responsible Parties:	Addresses:	Phone Numbers:
Mr. Joseph De Young	1919 Webster St., Oakland CA 94612	

Tank No:	Size in gal.:	Contents:	Closed in-place or removed?:	Date:
1	10000	diesel	N/A	
2	12000	UL gasoline	N/A	
3	1000	waste oil	N/A	

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: presumed from overfilling

Site characterization complete? Yes

Date approved by oversight agency

Monitoring Wells installed? YES Number: 2

Proper screened interval? Yes, 5.0-10.0'

Leaking Underground Fuel Storage Program

Highest GW depth: 6.0'BGS Lowest depth: 6.5' BGS

Flow direction: assumed northwesterly based upon years of monitoring just northeast of these tanks, approximately 200' away

Treatment and Disposal of Affected Material:

Material	Amount (include units)	Action (Treatment of Disposal w/destination)	Date

N/A , no material removed or disposed, release detected during tank integrity test at which time the tops of the tanks were exposed and groundwater encountered.

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppb)		
	Before	After	Before[1]	After[2]	
	N/A	N/A			
TPH (Gas)			4500	2500	ND
TPH (Diesel)			1200	105	1100
Benzene			ND	2.7	ND
Toluene			ND	ND	ND
Ethylbenzene			3	2.3	ND
Xylenes			11	5.8	ND
Oil and Grease			270,000	6,000	ND

Others- low levels of the metals; barium, chromium, copper, molybdenum, nickel, vanadian and zinc found in grab GW, 0.01-0.07 mg/l in the water sample the waste oil tank sampled on 9/14/95.

Comments (Depth of Remediation, etc.): see site summary

1 September 14, 1995 grab groundwater samples from the waste oil and fuel tank pits
2 October 4, 1995 grab groundwater samples from the waste oil and fuel tank pits
3 Groundwater samples from monitoring wells collected on November 1 and 2, 1995.

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

Leaking Underground Fuel Storage Tank Program

Site management requirements:

Should corrective action be reviewed if land use changes? Yes

Monitoring wells Decommisioned: 0

Number Decommisioned: 0 Number Retained: 2

List enforcement actions taken: None

List enforcement actions rescinded:None

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Barney M. Chan Title: Hazardous Materials Specialist

Signature: Barney M Chan Date: 6/13/97

Reviewed by

Name: Eva Chu Title: Hazardous Materials Specialist

Signature: Eva Chu Date: 5/15/97

Name: T. Peacock Title: Manager

Signature: T Peacock Date: 6-11-97

VI. RWQCB NOTIFICATION

Date Submitted to RB: RB Response: Approved

RWQCB Staff Name: K. Graves Title: AWRCE Date: 6/25/97

VII. ADDITIONAL COMMENTS, DATA, ETC.

K Graves

Site Summary for Pacific Gas and Electric Service Center
StID # 1421, 4801 Oakport St., Oakland CA 94601

This site was previously investigated in regards to a fuel leak from the removal of the first generation of underground tanks: (4) underground fuel and (1) waste oil removed on 12/13/88. This initial investigation was closed and a Remedial Action Completion Certificate sent out on February 15, 1995. No tanks exist in the area of these former 5 USTs. Because these tanks were located approx. 200' of the existing tanks in question, it is reasonable to use the prior groundwater gradient determined.

The release currently being investigated at this site was discovered in September of 1995 while PG&E performed integrity tank testing and tank upgrade. A 10k diesel and 12k gasoline tank exist in a common fuel tank pit just east of a 1k waste oil tank. In order to perform the tank testing, the tank pit was exposed to the top of the tank. Shallow groundwater was encountered. On September 14, 1995 a water sample was collected from the waste oil excavation pit. This grab sample detected 270 mg/l motor oil, 3.0 ug/l ethylbenzene, 11 ug/l total xylenes and low levels of dissolved barium, chromium, copper, molybdenum, nickel, vanadium and zinc ranging from 0.01-0.07 mg/l. A second grab groundwater sample was taken from the same pit on October 4, 1995. The sample exhibited 6 mg/l motor oil and 1.8ug/l benzene, 5.3ug/l ~~benzene and~~ total xylenes.

oops- my mistake from before.

Grab groundwater samples were collected also from the gasoline-diesel tank pit on the same two days. The September sample detected 4.5 mg/l TPHg, 11 ug/l total xylenes and 1.2 mg/l hydrocarbons in the diesel range. The October sample detected 2.5 mg/l TPHg, 2.7 ug/l benzene, 2.3 ug/l ethylbenzene, 5.8 ug/l total xylenes, 1.4 mg/l motor oil and 105 ug/l hydrocarbons in the diesel range.

To determine the extent of groundwater contamination, on October 26, 1995, nine direct-push probes were advanced around the two tank pits. Because of the shallow groundwater, at approximately 5' bgs, the probes were advanced to 10-13' depth, with the last 5' being 0.01" slotted casing. Groundwater samples were collected with a Teflon bailer. To expedite data collection, two test kits were used to evaluate diesel and motor oil in groundwater. The ENSYS immunoassay test kit, which has a detection limit of approximately 245 ug/l, was used to determine diesel and the Handby test kit (detection limit 0.2-0.5 mg/l) was used to estimate motor oil concentration. Based upon the results of this screening procedure, it appeared that the plume had not migrated significantly beyond the tank pits.

Using the groundwater gradient previously determined in the prior investigation at this site, monitoring wells MW-1 and MW-2 were installed in the assumed downgradient direction relative to the diesel/gasoline and waste oil tank pits, respectively. Groundwater from these wells was sampled on November 1 and 2, 1995. The groundwater sample from MW-1 was ND for TPHg, d and BTEX while the groundwater sample from MW-2 was ND for TPH mo, d, kerosene and BTEX. However, these samples detected hydrocarbons in the diesel range at 1100 and 240 ug/l unlike the diesel standard. This may indicate weathered diesel, thus an old release.

No further action is recommended based upon:

1. The extent of groundwater contamination appears limited to the area around the two tank pits;

2. No BTEX constituents were detected in the permanent monitoring wells installed in the assumed downgradient direction relative to the tank pits, further monitoring will not yield any beneficial data;

3. The underground tanks passed integrity tests, therefore, the release may have been the result of minor overfilling. The absence of benzene and the detection of "weathered" diesel in groundwater indicates that the release is old and has degraded.

4. Groundwater at this site is not considered potable, as illustrated by the high conductivity of the water.

5. No risk to human health or the environment exists.

Table 1

Groundwater Analytical Results
PG&E Service Center
4801 Oakport Street
Oakland, California

Sample Location	Groundwater Monitoring Well				Exploration Probe in Gasoline and Diesel UST Area					Exploration Probe in Waste Oil UST Area			
Sample Identification Sample Date	MW-1 11/2/95	MW-2 11/1/95	DUP-1 (MW-2) 11/2/95	TB-1 11/2/95	GD-1 10/26/95	GD-2 10/26/95	GD-3 10/2/695	GD-4 10/26/95	GD-5 10/26/95	WO-1 10/26/95	WO-2 10/26/95	WO-3 10/26/95	WO-4 10/26/95
TPHG (mg/L)	<0.05	--	--	<0.05	--	--	--	--	--	--	--	--	--
TPHD (µg/L)	<50*	--	--	--	--	--	--	--	--	--	--	--	--
BTEX (µg/L)	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--
TEPH kerosene (µg/L)	--	<50	<50	--	--	--	--	--	--	--	--	--	--
TEPH diesel (µg/L)	--	<50*	<50*	--	--	--	--	--	--	--	--	--	--
TEPH motor oil (µg/L)	--	<500	<500	--	--	--	--	--	--	--	--	--	--
ENSYS diesel (µg/L)	--	--	--	--	<245	>245	>245	>245	>245	--	--	--	--
HANBY motor oil (mg/L)	--	--	--	--	--	--	--	--	--	~ <0.5	~ <0.5	~ <0.5	~ <0.5**

TPHG = total petroleum hydrocarbons as gasoline by USEPA Method 5030/8015 modified
TPHD = total petroleum hydrocarbons as diesel by USEPA method 3510/8015 modified
BTEX = benzene, toluene, ethylbenzene, and xylenes by USEPA method 8020
TEPH = total extractable petroleum hydrocarbons by USEPA method 3510/8015 modified
mg/L = milligrams per liter
µg/L = micrograms per liter
<0.05 = not detected at or above the indicated method reporting limit
-- = not analyzed
* = samples MW-1, MW-2, and DUP-1 contained unknown hydrocarbons in the diesel range at 1,100, 240, and 270 µg/L, respectively.
** = sample WO-4 contained ~ 0.5 mg/L petroleum hydrocarbons in the diesel/kerosene range

20143-118.001

Data for PETRO RISc® Water Test

Operator: David Larsen Date: 10-26-95 Location: P G&E Oakland

Sample ID	ΔOD Standards	OD sample ____ ppm	Interpretation	OD sample ____ ppm	Interpretation	Comments
S-1a/b	-0.21					used S-1b as Standard
GD-2	+0.34	<245 ppb diesel	Below detection			Had trouble with the preparation of the standard. Will redo Standard and GD-2,6-D
GD-3	+0.48	<245 ppb diesel	Below detection			
S-2a/b	-0.23					Used S-2b as Standard
GD-1	+0.36	<245 ppb diesel	Below detection			Detection limit was 245 ppb as diesel.
GD-2	-0.55	>245 ppb diesel	Above detection			None of the samples were diluted.
GD-3	-0.13	>245 ppb diesel	"			Initial test on GD-2 and GD-3 was invalid due to poor Standard preparation. Results
GD-4	-0.58	>245 ppb diesel	"			
GD-5	-0.01	>245 ppb diesel	very close to detection limit			of second set of tests were more reliable.
				10-26-95		

PG&E - Oakland Hanby Results (Waste Oil)

Water Sample ID	Hydrocarbon Type	Result (ppm)	Comments
WO-1	NA	0.5 → 5.0	Very pale red/tan munsell soil color (10R, 6/2) Result may be due to acetone from cleaning
WO-2	NA	Blank	White powder
WO-4 ~~WO-3~~ ~~Diesel~~ 10-30-95	Diesel / Kerosene	~0.5	Very pale tan color. Not exact color of diesel or ~~kerosen~~ photos in Hanby+
WO-3 ~~WO-4~~ ~~Diesel~~ 10-30-95	NA	Blank	White powder

10-27-95

WO-1, WO-2, and WO-~~4~~3 were ND

WO-~~3~~4 had very pale color.

NA - No match to color chart.

Blank - matched color of standard. Not detected at or above detection limits indicated on color chart.

LOG OF EXPLORATORY BORING

PROJECT NUMBER: **20143-118.01**

BORING NO.: **MW-1**

PROJECT NAME: **PG&E Oakland**

PAGE: **1 of 1**

BY: **T. Gyrion**

DATE: **10/27/95**

SURFACE ELEVATION: **NA ft.**

RECOVERY (ft/ft)	PID (ppm)	PENETRATION (blws/ft)	GROUND WATER LEVELS	DEPTH IN FEET	SAMPLES	LITHOGRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
							FILL: BASEROCK.	
							@2.0': FILL, SILTY SAND (SM), olive (5Y, 5/4); 40% low- plasticity fines; 40% fine to coarse sand, f:m:c=5:1:2; 10% fine gravel; damp; no product odor.	
1.5/1.5	0	23	▽ 10/27/95	5			SANDY CLAY (CL), greenish gray (5G, 5/1), mottled to dark greenish gray (5GY, 4/1); 80% medium-plasticity fines; 20% fine to coarse sand, f:m:c=1:1:1; abundant ogranic (plant and wood fragments) material; very stiff; moist to wet; no product odor.	
0.5/0.5	0	8/6"		10			@9.5-10.0': as above; black (5Y, 2.5/1), trace greenish gray (5G, 5/1) mottling; 85% medium- to high-plasticity fines; 15% fine to medium sand, f:m=2:1; very stiff; wet; no product odor.	
							BORING TERMINATED AT 10.0 FEET.	
				15				
				20				

EMCON ASSOCIATES

REMARKS

Boring drilled with 8-inch-diameter hollow-stem auger drilling equipment. Boring sampled using modified California split-spoon samplers. Boring completed as a 2-inch-diameter PVC monitoring well. Well construction information is presented in Well Details and shown graphically on this log. See explanation sheet for definition of symbols used in Well Detail and sample columns on this log.

LOG OF EXPLORATORY BORING

PROJECT NUMBER: **20143-118.01**

BORING NO.: **MW-2**

PROJECT NAME: **PG&E Oakland**

PAGE: **1 of 1**

BY: **T. Gyrion**

DATE: **10/27/95**

SURFACE ELEVATION: **NA ft.**

RECOVERY (ft/ft)	PID (ppm)	PENETRATION (blws/ft)	GROUND WATER LEVELS	DEPTH IN FEET	SAMPLES	LITHOGRAPHIC COLUMN	DESCRIPTION	WELL DETAIL
							FILL: BASEROCK.	
							@2.5': FILL, SILTY SAND (SM), olive (5Y, 5/4); 40% low- plasticity fines; 45% fine to coarse sand, f:m:c=3:2:1; 5% fine gravel; damp; no product odor.	
1.5/1.5	0	19	▽ 10/27/95	5			CLAYEY SAND (SC), greenish gray (5G, 5/1), dark greenish gray (5GY, 4/1); 30% medium-plasticity fines; 70% fine to coarse sand, f:m:c=6:2:1; abundant fibrous ogranic material; unit is fining upward; medium dense; moist to wet; no product odor.	
0.5/0.5	0	6/6"		10			ORGANIC CLAY (OH), dark greenish gray (5GY, 4/1); 80% high- plasticity fines; 20% organic fragments; sulfur dioxide odor; wet; no product odor.	
							BORING TERMINATED AT 10.0 FEET.	
				15				
				20				

EMCON ASSOCIATES

REMARKS

Boring drilled with 8-inch-diameter hollow-stem auger drilling equipment. Boring sampled using modified California split-spoon samplers. Boring completed as a 2-inch-diameter PVC monitoring well. Well construction information is presented in Well Details and shown graphically on this log. See explanation sheet for definition of symbols used in Well Detail and sample columns on this log.