95 SEP 29 PM 12: 41

CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION Date: 09/01/95

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: Port of Oakland Bld L615, North Field

Site facility address: 8300 Earhart Rd., Oakland CA 94621

RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 3684

ULR filing date: 6/8/89 SWEEPS No: N/A

Responsible Parties: Addresses: Phone Numbers:

Port of Oakland 530 Water St. (510) 272-1100

Attn: Ms. Patricia Murphy P.O. Box 2064

Oakland 94604-2064

Tank No:	Size in gal.:	<u>Contents:</u>	<pre>Closed in-place or removed?:</pre>	Date:
1	3,000	gasoline	Removed	5/11/89

III RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: unknown

Site characterization complete? Yes

Date approved by oversight agency: 7/28/95

Monitoring Wells installed? YES Number: 3

Proper screened interval? Yes, 5-15' and 6-11' Screen interval based on the minimum required length of cement grout and bentonite for the sanitary seal.

Leaking Underground Fuel Storage Program

Highest GW depth: 1.17' Lowest depth: 6.3

Flow direction: predominantly northwesterly, however has ranged from west to northerly.

Most sensitive current use: aquatic activities and aquatic wildlife in Airport Channel

Are drinking water wells affected? No Aguifer name:

Is surface water affected? No Nearest affected SW name: NA

Off-site beneficial use impacts (addresses/locations):

Report(s) on file? Yes Where is report(s)? Alameda County
1131 Harbor Bay Parkway,
Room 250, Alameda CA 94502-6577

Treatment and Disposal of Affected Material:

<u>Material</u>	Amount (include units)	Action (Treatment of Disposal w/destination	<u>Date</u>)
Tanks & Piping	1-3000 gallon gas	Disposed @ H&H Ship San Francisco	5/11/89
Soil	50 cubic yards	Aerated and reused on-site	5/90
Groundwater	3000 gallon	Disposed @ H&H Ship	5/11/89

Maximum Documented Contaminant Concentrations - - Before and After Cleanup Contaminant Soil (ppm) * Water (ppb) 1 Before After Before After

+	,	· · · · · · · · · · · · · · · · · · ·			
	¹ Before A	After ²	<u>Before</u>	<u> After</u>	
TPH (Gas)	6.8	210	35,000	310	
Benzene	0.26	1.4	900	ND	
Toluene	0.18	3.6	2,800	0.5	
Ethylbenzene	0.024	2.3	560	2.1	
Xylenes	0.11	12.1	3,500	0.5	
Other TDS			6600-10,9	mag 006	

1 from beneath tank at time of removal * grab GW sample

2 sample taken 08' depth after overexcavation

Comments (Depth of Remediation, etc.):

see site summary

IV. CLOSURE

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

Leaking Underground Fuel Storage Tank Program

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

Does corrective action protect public health for current land use?

Site management requirements: NA

Should corrective action be reviewed if land use changes? No

Monitoring wells Decommisioned: No. pending closure

Number Decommisioned: 0 Number Retained: 3

List enforcement actions taken: None

List enforcement actions rescinded: None

٧. LOCAL AGENCY REPRESENTATIVE DATA

Name: Barney M. Chan

Title: Hazardous Materials Specialist

9/1/95 Barney U Clian Date:

Reviewed by

Name: Madhulla Logan Title: Hazardous Mațerials Specialist

antricle C Date:

Name: Eva Chu Title: Haz. Mat. Specialist

8/3/95 Signature: Date:

VI. RWQCB NOTIFICATION

Date Submitted to RB:

RWQCB Staff Name: K. Graves Title: AWRCE,

ADDITIONAL COMMENTS, DATA, ETC. VII.

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Site Summary for 8300 Earhart Rd., Oakland CA 94621 StID # 3684, Port of Oakland Bld615, North Field

This site is located at the North Field area of the Oakland International Airport. It is slightly south of the Airplane Museum just off Doolittle. To the east lies the Airport Channel and to the west, San Francisco Bay. The ust is believed to have been installed in the 1940's by a tenant.

May 11, 1989- One 3000 gallon metal ust was removed from the site. The contents of the tank, mostly water, was removed by and disposed by H&H Ship Service. Two soil samples, one from each end of the tank, and one grab groundwater sample were taken after the tank removal. Low levels of gas and BTEX were detected in the northeast soil sample only, 6.8 ppm gas, and 0.26, 0.18,0.024 and 0.11 ppm BTEX respectively. The grab groundwater sample detected 35 mg/l gasoline and 0.9, 2.8,0.56 and 3.5 mg/l BTEX respectively. The spoils were immediately backfilled into the pit pending these analytical results.

June 21, 1989- Soils from the tank pit were re-excavated to approximately 8'bgs and four floor samples taken. No sidewalls samples taken because of caving-in potential. Only sample S-2 from the NW corner of the pit detected any significant contamination: 210 ppm TPHg, 1.4,3.6,2.3 and 12.1 ppm BTEX respectively. Approximately 50 cy of soils was generated from this excavation. This soil was aerated and three discrete samples taken on April 30, 1990 were ND for gasoline and BTEX. The soil was eventually reused on-site.

May 14, 1992- One monitoring well MW-1-5 was installed within ten feet of the tank pit in the assumed downgradient direction, southwest. The soil boring from 5' depth was ND for gas and BTEX. The TDS on the groundwater sample was 8700 mg/l, indicating a non-drinking water aquifer.

Groundwater monitoring was performed for several years with only infrequent hits of gasoline and BTEX. However, due to the uncertainty of groundwater gradient direction, the Port decided to install two additional wells to verify gradient.

January 24, 1994- Two additional monitoring wells, MW-2-5 and MW-3-5 were installed. Soil borings from these wells range from ND to very low. The groundwater gradient was determined to be north- northwesterly, unlike the assumed southwesterly direction. Therefore, MW-3-5 was the downgradient well.

For the past year the gradient has been fairly consistent ranging from west to northerly. The additional wells have been monitored four times and only low to ND concentrations of gasoline and BTEX

Site Summary for 8300 Earhart Rd. StID # 3684
Page 2.

have been detected. It appears that the release of gasoline from this tank is limited in both soil and groundwater and that any residual contamination will have no adverse impact to human and environmental health.

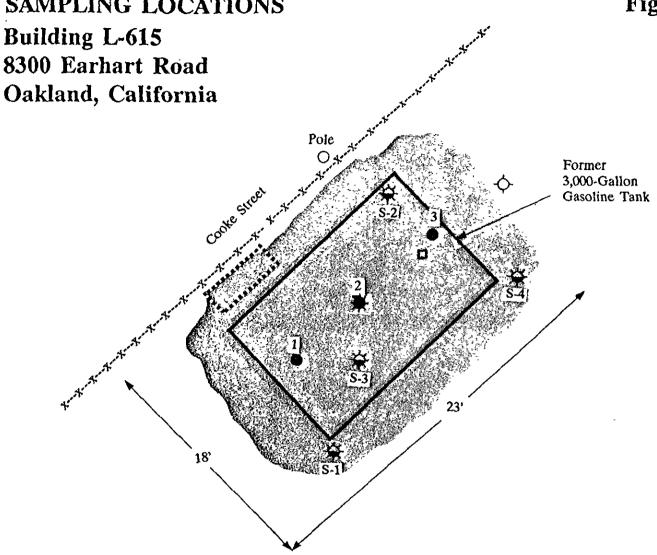
Rationale for closure:

- 1. TDS has consistently ranged from 6600-11000 ppm, therefore, the shallow groundwater does not meet the Water Board's drinking water requirement.
- 2. Fairly extensive overexcavation has occurred. Contaminated soils were aerated and reused after sampling indicated ND for all contaminants.
- 3. Groundwater monitoring indicates very low concentrations of TPHg, T,E and X. No benzene has been detected for four consecutive quarters. The TEX concentrations are well below their respective MCL values.

ssum8300



Figure 3



Legend:

Excavation Area

- Location of Soil Sample Collected on 5/11/89 by R.S. Eagan and Company
- Location of Water Sample Collected on 5/11/89 by R.S. Eagan and Company
- Location of Soil Sample Collected S-1 🄆 on 6/21/89 by BASELINE
- Fuel Pump Block
 - Proposed Groundwater Monitoring Well Location
 - Fill Pipe for the Gasoline Tank



Not to Scale

Table 1

SUMMARY OF ANALYTICAL RESULTS

SOIL AND GROUNDWATER SAMPLING

8300 Earhart Road, Oakland, California

(in mg/kg unless otherwise noted)

Sample I.D.	Depth (ft.)	Media	Gasoline	Benzene	Toluene	Xylenes	Ethyl-
	(16)	IVICATA	Casonic	Benzene	TOIDENE	Aylelle	benzene
Tank Remova	1 (5/11/89) ¹						
1 nc	ot reported	soil	<0.5	< 0.02	< 0.02	< 0.07	< 0.02
2		water ²	35	0.9	2.8	3.5	0.56
3 no	ot reported	soil	6.8	0.26	0.18	0.11	0.024
Gasoline Tani	k Pit (6/21/89) ³						
S-1	5	soil	<10	< 0.005	0.050	0.12	0.022
S-2	84	soil	210	1.4	3.6	12.1	2.3
S-3	10 ⁴	soil	trace.	0.076	< 0.005	0.71	0.58
S-4	84 ·	soil	<10	< 0.005	< 0.005	< 0.005	<0.005
oil Aeration	Pile (6/21/89) ³						
,2,3,4 (compo		soil	140	NA	NA	NA	NA
5,6,7,8 (composite)		soil	240	NA	NA	NA	NA
oil Aeration	Pile (8/30/89) ¹						
,2,3,4,5,6 (co		soil	4.4	0.012	1.3	0.14	0.032

Sampled and analyzed by Trace Analysis Laboratory using DHS Method for gasoline and Modified EPA Method 8020 for BTXE (benzene, toluene, xylenes, and ethylbenzene).

Notes: For sampling locations in former tank pit, refer to Figure 3.

Laboratory reports are contained in Appendices B and F.

NA = Not Analyzed For

² In mg/L (milligrams per liter).

Sampled by BASELINE Environmental Consulting and analyzed by Curtis and Tompkins, Ltd. using EPA Methods 8015 and 602/8020 for gasoline and BTXE, respectively.

The collected samples were moist to wet. Soil aeration pile sampling locations are not depicted for 21 June; locations for 30 August sampling shown in Appendix F.

TABLE 1 - SUMMARY OF RESULTS OF GROUND WATER MONITORING AND SAMPLING PORT OF OAKLAND, OAKLAND INTERNATIONAL AIRPORT, NORTH FIELD 8300 EARHART ROAD, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-252

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	8 (ug/l)	T (ug/l)	E (ug/1)	X (ug/l)	TDS (mg/l)	LAB
MW-1-5	05/18/92	8.68	4.00	4.68	60	ND<0.4	0.6	ND<0.3	1.6	8700	
MW-1-5	08/06/92	8.68	6.26	2.42	ND<50	ND<0.4	ND<0.3	0.3	1.5		
MW-1-5	11/24/92	8.68	6.30	2.38	ND<50	ND<0.4	ND<0.3	ND<0.3	ND<0.4		
MW-1-5	02/12/93	8.68	1.17	7.51	ND<50	ND<0.4	ND<0.3	ND<0.3 ND<0.3	ND<0.4 ND<0.4	6600	
MW-1-5	05/17/93	8.68	3.62	5.06	ND<50	ND<0.4	ND<0.3	ND<0.5	ND<0.4	10900	
MW-1-5	08/04/93	8.68	3.61	5.07	ND<50	ND<0.5	ND⊲0.5 1.2	ND<0.5	0.6	10300	
MW-1-5	11/24/93	8.68	3.65	5.03	ND<50	1.7 ND<0.5	1.2 ND<0.5	ND<0.5	ND<0.5	7800	
MW-1-5	03/01/94	8.54	2.38	6.16	ND<50 ND<50	ND<0.5 ND<0.5	ND<0.5	ND<0.5	ND<0.5	9100	
MW-1-5	05/20/94	8.54 0.54	3.30 3.60	5.24 4.94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	9400	D&M
MW-1-5	08/24/94 02/24/95	8.54 8.54	3.60 2.44	6.10	ND<50	ND<0.4	ND<0.3	ND<0.3	ND<0.4	9100	CEC
MW-1-5	02/24/95	0.04	2,44	0.10	115 400	112 101	***************************************				
MW-2-5	03/01/94	8.62	2.72	5.90	30	0.57	1.2	9.9	2.4	6600	
MW-2-5	05/20/94	8.62	2.87	5.75	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	10000	
MW-2-5	08/24/94	8.62	3.30	5.32	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7800	M&G
MW-2-5	02/24/95	8.62	2.42	6.20	ND<50	ND<0.4	ND<0.3	ND<0.3	ND<0.4	8900	CEC
MW-3-5	03/01/94	8.38	2.80	5.58	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	9400	
MW-3-5	05/20/94	8.38	3.10	5.28	ND<50	ND<0.5	ND<0.5	1.6	0.72	10000	D&M
MW-3-5	08/24/94	8.38	3.65	4.73	ND<50	ND<0.5	0.55	ND<0.5	ND<0.5	6600	CEC
MW-3-5	02/24/95	8.38	2.68	5.70	310	ND<0.4	0.6	2.8	0.6 0.5	6600	CEC
QC-1 (c)	02/24/95	8.38			250	ND<0.4	0.5	2.1	0.5	_	
QC-2 (d)	02/24/95				ND<50	ND<0.4	ND<0.3	ND<0.3	ND<0.4	<u></u>	CEC
ABBREVIA	TIONS:			NOTI	ES:				•		
TPH-G TDS	Total dissolved	Total petroleum hydrocarbons as gasoline Total dissolved solids				Top of casing elevations surveyed to the nearest 0.01 foot above mean sea level.					
B T	Benzene Toluene			(b)		Groundwater elevations in feet above mean sea fevel.					
E	Ethylbenzene			- ,							
X	Total xylenes Micrograms per liter			(c)		Blind duplicate. Travel blank.					
υ g/ 1				1.4							
mg/l	Milligrams per liter			(d)		Haver Diank.					
	Not analyzed/available/applicable										
ND D&M	Not detected above reported detection limit D&M Laboratories										
CEC		nes nmental Consultan	te								
CEC	Cayton Enviro	THE PARTY OF THE PARTY IS									

