AGENCY



DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH 1131 Harbor Bay Parkway Alameda, CA 94502-6577 (510)567-6700

REMEDIAL ACTION COMPLETION CERTIFICATION

StID 3564 - One Memorial Clubhouse Dr. Alameda, CA 9450

March 21, 1996

Mr. Fred Framsted City of Alameda, Rec & Park City Hall, Room 201 Alameda, CA 94501

Dear Mr. Framsted:

This letter confirms the completion of site investigation and remedial action for the two former underground storage tanks (1-5000 and 1-125 gallon gasoline tanks) removed from the above site on July 10, 1991. 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 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 Ms. Eva Chu at (510) 567-6700 if you have any questions regarding this matter.

Very truly yours,

Jan Makishima

Jun Makishima, Interim Director

cc: Chief, Division of Environmental Protection

Kevin Graves, RWQCB

Mike Harper, SWRCB (with attachment)

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CALIFORNIA REGIONAL WATER AUG 1 7 1995

CHALITY CONTROL BOARD

CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program \$5 AUG 23 PH 2: 30

I. AGENCY INFORMATION

Date: August 10, 1995

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 Hazardous Materials Spec.

CASE INFORMATION II.

Site facility name: Alameda Colf Course

Site facility address: One Memorial Clubhouse Dr, Alameda 94501

RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 3564 URF filing date: 8/19/91 SWEEPS No: N/A

Responsible Parties:

Phone Numbers: Addresses:

City of Alameda, Rec & Park Dept City Hall, Room 201 510/748-4653 Attn. Fred Framsted Alameda, CA 94501

Tank No:	Size in gal.:	<u>Contents:</u>	<pre>Closed in-place or removed?:</pre>	<u>Date:</u>
1	500	Gasoline	Removed	7/10/91
2	125	Gasoline	Removed	7/10/91

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Unknown

Site characterization complete? YES

Date approved by oversight agency: 5/3/95 Monitoring Wells installed? Yes

Proper screened interval? Yes, 3 to 10' bgs

Highest GW depth below ground surface: 1.4' Lowest depth: 3.23' bgs

Flow direction: Predominately to south, and southwest

Most sensitive current use: Unknown

Aquifer name: Unknown Are drinking water wells affected? No 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>	Amount (include units)	Action (Treatment or Disposal w/destination)	<u>Date</u>
Tank Piping	2 USTs	Erickson, Richmond	7/10/91
Free Product Soil Groundwater Barrels	80 cy	Aerated, left onsite.	6/29/95

Maximum Documented Contaminant	Soil	(ppm)	Wa	efore and ter (ppb) ore Aft		Cleanup
TPH (Gas) TPH (Diesel)	960	3.0	8,2	00 NE)	
Benzene Toluene Ethylbenzene Xylenes	3.5 .10 3.0 13	.030 .006 .023 .059		10 NE ND NE 70 NE 00 NE) }	
Oil & Grease Heavy metals Other	Pb		6	.3		

NOTE: 1 Grab groundwater sample after two purgings

Comments (Depth of Remediation, etc.):

See Section VII, Additional Comments, etc...

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? YES
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? YES
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: None, pending site closure
Number Decommissioned: 0 Number Retained: 3
List enforcement actions taken: None

List enforcement actions rescinded: NA

LOCAL AGENCY REPRESENTATIVE DATA v.

Eva Chu Name:

Signature:

Date: 8/14/95

Reviewed by

Juliet Shin Name:

Signature: Julia Slin

Barney Chan Name:

Barney Chan Signature:

RWQCB NOTIFICATION VI.

Date Submitted to RB: 8/15/95

RWQCB Staff Name Kevin Graves
Signature:

Title: Sr Haz Mat Specialist

Title: Haz Mat Specialist

Date: 8/10/95

Title: Haz Mat Specialist

Date: 8/14/95

RB Response: Amrael

Title: AWRCE

Date: 8/11/95

ADDITIONAL COMMENTS, DATA, ETC. VII.

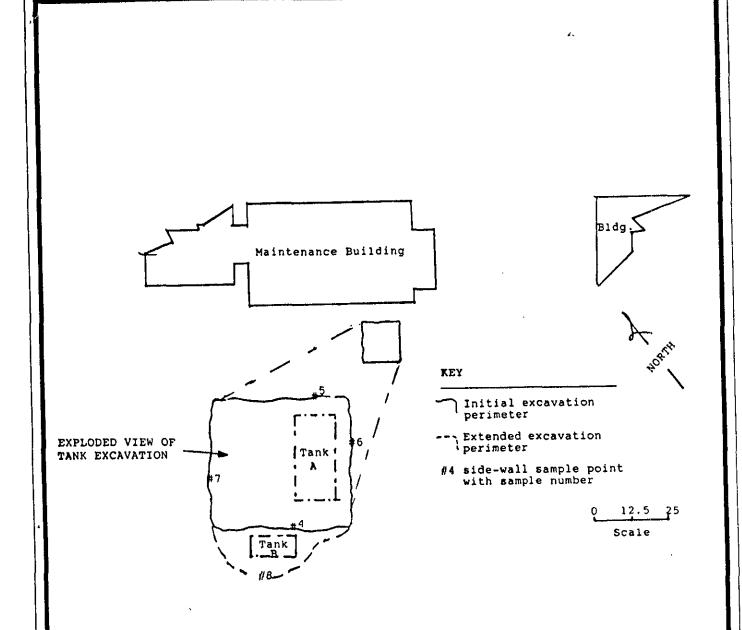
On July 10, 1991, two USTs in a common pit (1-500 and 1-125 gallon gasoline USTs) were removed. The 500 gallon tank was tar-wrapped and appeared in good condition. The 125 gallon tank was severely corroded, with numerous holes. Soil samples collected from the capillary fringe exhibited up to 960 ppm TPH-G, 3.5, .10, 3.0, and 13 ppm BTEX, respectively. The pit was overexcavated and verification samples from the sidwalls were ND for TPH-G and BTEX, except for the east wall, which exhibited 3.0, .03, .006, .023, and .059 ppm TPH-G, and BTEX, respectively.

Groundwater was twice purged from the pit and allowed to recharge. A grab groundwater sample exhibited 8,200 ppb TPH-G, 210, ND, 270, and 1,200 ppb BTEX, respectively.

In August 1992 four soil borings (SB-1, MW-1, 2, and 3) were advanced. Three of the borings were converted into monitoring wells. Soil samples collected from each boring (at 4.5 to 5' depth) did not detect TPH-G or BTEX, except for 1.8 ppm TPH-G in SB-1. Groundwater has been sampled for four consecutive quarters (Sep 1992, Jan, May, & Jul 1993) without detecting TPH-G or BTEX.

Soil removal was effective in removing most of the contaminated soil. Groundwater does not appear to be impacted by the fuel release at this site.

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(1)	Environmental
(T	Technical
	S ervices

	ALAMEDA GOLF COURSE	Figure 3
	1 MEMORIAL CLUBHOUSE	EXCAVATION AND
:	ALAMEDA, CALIF	SAMPLING MAP

TABLE V

GROUNDWATER ANALYTICAL RESULTS

TOTAL PETROLEUM HYDROCARBONS AS GASOLINE WITH BENZENE, TOLUENE, ETHYLBENZENE, AND TOTAL XYLENES

FOURTH QUARTER

JULY 29, 19925

Results reported in ug/L

Sample#	ТРНд	В	<u>T</u>	E	<u>x</u>
MW-1	ND	ND	ND	ND	ND
MW-2	ND	ND	, ND	ND	ND
MW-3	ND	ND	ND	ND	ND

ND - not detected at lower detection limit

GROUND WATER GRADIENT Lagoon

Flow Direction Maintenance Building (Constructed in 1992) _ KN7 gr drain trough gate Excavation

OROUNDWATER GRADIENT DATA

MAP NO.	DATE	E1(1)	FLOW(2)	GRAD(3)
1	10/14/92	_	181	.080
2	11/10/92	92.18	107	.015
3	12/11/92	92.17	164	.016
4	01/11/93	92.18	184	.004
5	05/04/93	93.07	226	.056
6	07/29/93	93.77	280	.043

NOTES

- (1) Water elev. in MW1
 (2) Flow azimuth (E of N)
 (3) Gradient (ft/ft)