

ALAMEDA COUNTY  
HEALTH CARE SERVICES



AGENCY  
DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH  
1131 Harbor Bay Parkway  
Alameda, CA 94502-6577  
(510) 567-6777

REMEDIAL ACTION COMPLETION CERTIFICATION

StID 4472 - 17505 Mines Road, Livermore, CA

September 15, 1995

Mr. Robert Cotler  
17505 Mines Road  
Livermore, CA 94550

Mr. Ed Bretz  
P.O. Box 2139  
Friday Harbor, CA 98250

Dear Messrs. Cotler and Bretz:

This letter confirms the completion of site investigation and remedial action for the two former underground storage tanks (1-700 and 1-6,000 gallon gasoline tank) removed from the above site on November 17, 1993. 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,

Jun Makishima, Interim Director

cc: Chief, Division of Environmental Protection  
Kevin Graves, RWQCB  
Mike Harper, SWRCB (with attachment)  
files (bretz3)

**CASE CLOSURE SUMMARY**  
**Leaking Underground Fuel Storage Tank Program**

**I. AGENCY INFORMATION**

Date: August 11, 1995

Agency name: Alameda County-HazMat Address: 80 Swan Wy., Rm 200  
City/State/Zip: Oakland Phone: (510) 271-4320  
Responsible staff person: Eva Chu Title: Hazardous Materials Spec.

**II. CASE INFORMATION**

Site facility name: Ed Bretz (Private Ranch)  
Site facility address: 17505 Mines Road, Livermore  
RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 4472  
URF filing date: 6/3/94 SWEEPS No: N/A

Responsible Parties:                      Addresses:                      Phone Numbers:

1. Robert Cotler                      17505 Mines Rd, Livermore, CA 94550  
2. Ed Bretz                              P.O.Box 2139, Friday Harbor, WA 98250

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	700	Gasoline	Removed	11/17/93
2	6,000	Gasoline	Removed	11/17/93

**III. RELEASE AND SITE CHARACTERIZATION INFORMATION**

Cause and type of release: Unknown  
Site characterization complete? YES  
Date approved by oversight agency: 5/27/94  
Monitoring Wells installed? NO                      Number:  
Proper screened interval? NA  
Highest GW depth below ground surface: Unknown      Lowest depth: Unknown  
Flow direction: Unknown  
Most sensitive current use: Private ranch  
Are drinking water wells affected? NO      Aquifer name:  
Is surface water affected? NO      Nearest affected SW name:  
Off-site beneficial use impacts (addresses/locations):

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> <u>(include units)</u>	<u>Action (Treatment</u> <u>or Disposal w/destination)</u>	<u>Date</u>
Tank	1x700; 1x6K gallon	Disposed by Erickson	11/17/93
Piping	18'	Disposed by Erickson	11/17/93
Free Product			
Soil	Unknown yards	Used to backfill pit	11/19/93
Groundwater			
Barrels			

**Maximum Documented Contaminant Concentrations - - Before and After Cleanup**

<u>Contaminant</u>	<u>Soil (ppm)</u>		<u>Water (ppb)</u>	
	<u>Before</u>	<u>After<sup>1</sup></u>	<u>Before</u>	<u>After</u>
TPH (Gas)	150	1,300		
TPH (Diesel)				
Benzene	ND	0.4		
Toluene	ND	18		
Ethylbenzene	ND	10		
Xylenes	5.1	91		

NOTE: 1. soil sample from boring SB-1 at 11 to 25' bgs

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

Initial soil collected beneath the fill end of the 6K UST exhibited low levels of gasoline contaminations. When a boring, SB-1, was advanced w/in 10 feet of the tank pit, elevated levels of gasoline contamination was noted from 11' to 25+' depths. Another boring, SB-2, advanced 15' topographically downgradient from boring SB-1 did not detect TPH-G or BTEX, to the depth explored (20' bgs).

**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? **No**  
 Monitoring wells Decommissioned: **NA**  
 Number Decommissioned: **NA** Number Retained: **NA**  
 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: 8/14/95

Reviewed by

Name: Scott Seery Title: Sr. Haz Mat Specialist

Signature: *[Signature]* Date: 8-14-95

Name: Dale Klettke Title: Haz Mat Specialist

Signature: *[Signature]* Date: 8/11/95

VI. RWQCB NOTIFICATION

Date Submitted to RB: 8/15/95 RB Response: *Approved*

RWQCB Staff Name: Kevin Graves Title: AWRCE

Signature: *[Signature]* Date: 8/21/95

VII. ADDITIONAL COMMENTS, DATA, ETC.

Two gasoline USTs were removed from this private ranch on November 1993. The USTs had minor corrosion, but no obvious through holes. The tar wrap around the 6K UST was mostly intact. No soil staining or odor was noted in either the stockpiled soil or the soil samples collected from beneath the USTs. However, laboratory analysis of soil collected beneath the fill end of the 6K UST exhibited 150 ppm TPH-G, and 5.1 ppm total xylenes. The pits were backfilled with stockpiled soil (never characterized) and imported clean fill.

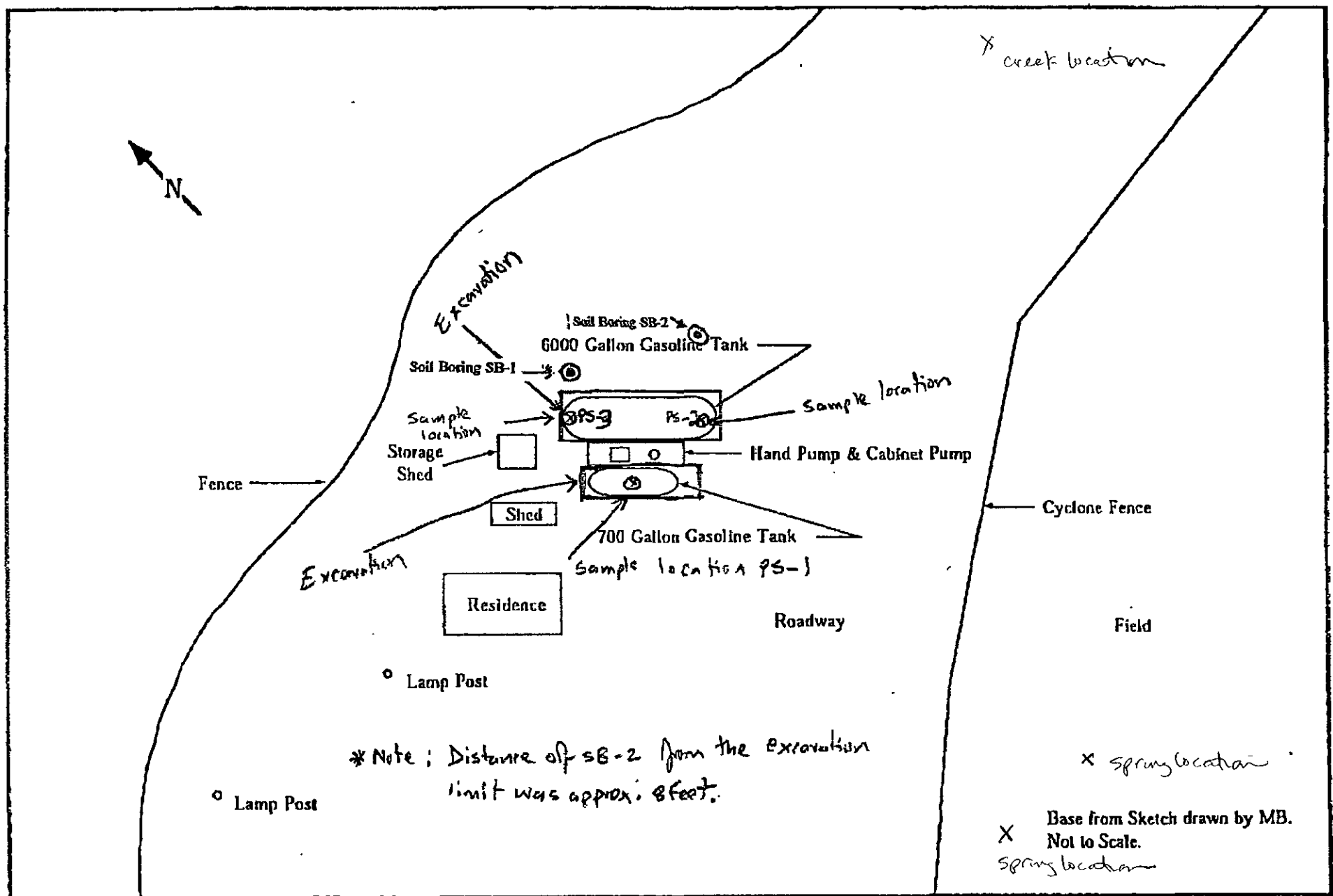
In January 1994 two soil borings were advanced to delineate the extent of the soil contamination. Boring SB-1, advanced near PS-3, exhibited elevated levels of TPH from 11-25' depths (see following tabulation of soil boring analytical results). Another soil boring, SB-2, located 15' topographically downgradient from SB-1 did not detect fuel constituents at 15.5 or 19.5' depths. Sediment type encountered in boring SB-1, from 10-30' was predominantly silty sand with gravel. From 30-40' depth bedrock was encountered and no soil samples could be recovered.

	ppm TPH-G	ppb B	ppb T	ppb E	ppb X
SB-1, 6'	ND	ND	ND	ND	ND
SB-1, 11'	1,300	ND	1,000	ND	91,000
SB-1, 21'	1,100	ND	18,000	10,000	91,000
SB-1, 25'	820	400	9,600	2,700	54,000
SB-2, 15.5'	ND	ND	ND	ND	ND
SB-2, 19.5'	ND	ND	ND	ND	ND

Soil Analytical Results from Soil Borings

It appears residual contamination is limited to soil adjacent to the former UST to a depth of approximately 30'. The site is at a remote, private ranch, situated on a steep hill (with the former USTs on the NW flank), at least 2 miles from the closest neighboring residence. Two onsite springs which provide water for the residence are located approximately 1/4 - 1/2 mile south and 900 to 1,000' in elevation below the former tank pit. A creek on the property is approximately 0.3 mile away, and approximately 1,100' in elevation below the former UST pit. It is reported that groundwater is anticipated to be encountered >900' below surface. Migration of hydrocarbons to impact groundwater and the nearby creek appears to be minimal. Therefore, monitoring wells are not warranted at this site. Residual benzene at concentrations of 0.4 ppm in soil does not pose a human health risk of cancer greater than 1:100,000 from soil volatilization to outdoor air (from ASTM's Risk-Based Screening Level Look-Up Table).

Soil cuttings from the borings were aerated and disposed on site.



 <b>Wahler Associates</b> PALO ALTO • WALNUT CREEK CA	Ed Bretz Tank Removal 17505 Mines Road Livermore, California		<b>SITE PLAN</b>		
			Project No.	Date	Figure No.
		BRE-W01H	11-5-93	2	

# CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

November 29, 1993

ChromaLab File#: 9311246

WAHLER ASSOCIATES

Atten: Robert Serafin

Project: WAHLER ASSOCIATES  
Submitted: November 18, 1993

Project#: 246

re: 3 samples for Gasoline and BTEX analysis.

Matrix: SOIL

Sampled on: November 17, 1993

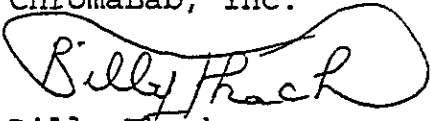
Analyzed on: November 23, 1993

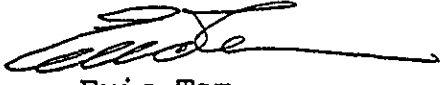
Method: EPA 5030/8015/8020

Run#: 1604

Lab #	SAMPLE ID	Gasoline (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)
37412	PS-1	N.D.	N.D.	N.D.	N.D.	N.D.
37425	PS-2* 6,000 gallon	150	N.D.	N.D.	N.D.	5100
* D.L. = 25 UG/KG FOR BENZENE, TOLUENE, ETHYL-BENZENE						
37426	PS-3 700gallon	3.6	N.D.	25	19	490
DETECTION LIMITS		1.0	5.0	5.0	5.0	5.0
BLANK		N.D.	N.D.	N.D.	N.D.	N.D.
BLANK SPIKE RECOVERY(%)		100	97	98	99	100

ChromaLab, Inc.

  
Billy Thach  
Chemist

  
Eric Tam  
Laboratory Director

BORING LOCATION: 17505 Mines Road APPROVED BY: GROUND EL:  
 DEPTH/ELEV.WATER: Not encountered DRILL CONTRACTOR: Gregg Drilling TOTAL DEPTH: 40.0'  
 DRILL RIG: M-11 BORING DIA.: 8" DATE DRILLED: 1-12-94 LOGGED BY: TBM

SOIL CLASS	DESCRIPTION	DEPTH	SAMPLE NO.	PR RQD	REC.	MODE	REMARKS	
SP-SM	0.0'-10' POORLY GRADED SAND with SILT: very dark grey; dry; very low plasticity; very loose; approx. 90% rounded and subangular sand grains, fine to coarse; approx. 10% fines; occasional gravel to 1" dia.	0					Advanced boring with 8.0" O.D. flight augers (AD). Samples obtained by driving a 2.5" I.D. Modified California Sampler (MCS) using a 140 lb. pneumatic hammer falling 30".	
		2				HA		
		4						HA
		6	SB1-B5.5	1	1.5	DR		5.0'-6.5' CS
				1	1.5			SB1-B5.5: 3 ppm with OVM
			SB1-L6	2				6.0'-6.5': SB1-L6
		8						HA
		10						HA
		10	SB1-B10.5	6	1.5	DR		10.0'-11.5' CS
				50	1.5			SB1-B10.5: 339 ppm with OVM
	SB1-L11	30			11.0'-11.5': SB1-L11			
SM	10'-18' SILTY SAND with GRAVEL: very dark greyish brown; dry; low plasticity; dense; approx. 20% fines.	12				HA		
		14				HA		
		15.0'		50	0.2	DR	15.0'-15.2' CS Hard drilling, driller reported felt rocky, no recovery	
SM	18'-30' SILTY SAND with GRAVEL: dark greyish brown; dry; very low plasticity; approx. 20% fines; occasional gravel to 2" dia., rounded and subangular sand grains fine to coarse.	18				HA	OVM 623 ppm in cuttings	
		20					884 ppm with OVM in boring to 20'	



Ed Bretz Property  
 17505 Mines Road  
 Livermore, California

EXPLORATION BORING LOG  
 PROJECT NO. BRE-W02H  
 SHEET: 1 of 2

BORING NO. SB-1



BORING LOCATION: 17505 Mines Road			APPROVED BY:			GROUND EL:		
DEPTH/ELEV.WATER: Not encountered			DRILL CONTRACTOR: Gregg Drilling			TOTAL DEPTH: 40.0'		
DRILL RIG: M-11		BORING DIA.: 8"		DATE DRILLED: 1-12-94		LOGGED BY: TBM		
SOIL CLASS	DESCRIPTION	DEPTH	SAMPLE NO.	PR RQD	REC.	MODE	REMARKS	
SM	18'-30' SILTY SAND with GRAVEL (continued)	20					20.0'-21.5' CS	
			SB1-B20.5	20 40	1.4 1.5	DR	SB1-B20.5: OVM 1,056 ppm	
			SB1-L21	50/5			21.0'-21.5': SB1-L21	
		22						
		24				HA	OVM 698 ppm in cuttings	
		26						
		28						
		30		70/2"	0/2	DR	30.0'-30.2' CS Very rocky drilling, no recovery	
		32						
		34				HA		
		36						
		38						
		40					Refusal at 40.0' <u>HOLE COMPLETION</u> 0.0'-2' soil cuttings 2'-40' neat cement grout.	
TOTAL DEPTH 40.0'		40						

95 AUG 23 11 2:30

*Data on this log are an approximation of the geologic and subsurface conditions because the information was obtained from indirect, discontinuous, and possibly disturbed sampling necessitated by the use of small diameter holes. Rotary and wash boring holes have further complications in this regard because of the need to use drilling fluid and/or casing in advanced holes.*

*This log indicates conditions in this hole only on the date indicated and may not represent conditions at other locations and on other dates. Any water levels shown are subject to variation.*

*This hole was logged in such a way as to provide data primarily for design purposes and not necessarily for the purposes of specific contractors.*

*The stratification lines or depth intervals represent the approximate boundaries between material types, and the transitions may be gradual.*

*Soil classifications shown on logs are field classifications based on the Unified Soil Classification System.*

 Wahler Associates	Ed Bretz Property 17505 Mines Road Livermore, California		EXPLORATION BORING LOG		BORING NO. SB-1
			PROJECT NO.	SHEET:	
			BRE-W02H	2 of 2	