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

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

September 19, 2008

Mr. James Gotcher
City of Pleasanton Public Works
P.O. Box 520
Pleasanton, CA 94566-0802

Subject: Fuel Leak Case No. RO0002923 and Geotracker Global ID T06019727284, City of Pleasanton Fire Station #1, 4444 Railroad Avenue, Pleasanton, CA 94566 – Case Closure

Dear Mr. Gotcher:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with 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 Environmental Health (ACEH) is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed. This case closure letter and the case closure summary can also be viewed on the State Water Resources Control Board's Geotracker website (http://geotracker.swrcb.ca.gov) and the Alameda County Environmental Health website (http://www.acgov.org/aceh/index.htm).

SITE INVESTIGATION AND CLEANUP SUMMARY

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

- Total petroleum hydrocarbons as gasoline were previously detected in soil at concentrations up to 150 ppm.

If you have any questions, please call Jerry Wickham at (510) 567-6791. Thank you.

Sincerely,

Donna L. Drogos, P.E.
LOP and Toxics Program Manager

Enclosures:
1. Remedial Action Completion Certificate
2. Case Closure Summary

cc:

Ms. Cherie McCaulou
SF- Regional Water Quality Control Board
1515 Clay Street, Suite 1400
Oakland, CA 94612

Closure Unit (w/enc)
State Water Resources Control Board
UST Cleanup Fund
P.O. Box 944212
Sacramento, CA 94244-2120

Danielle Stefani (w/enc)
Livermore-Pleasanton Fire Department
3560 Nevada Street
Pleasanton, CA 94566

Cheryl Dizon, QIC 80201 (w/enc)
Zone 7 Water Agency
100 North Canyons Parkway
Livermore, CA 94551

City of Livermore Planning Department (w/enc)
1052 South Livermore Avenue
Livermore, CA 94550

James Lehrman (w/o enc)
Kleinfelder
7713 Koll Center Parkway, Suite 100
Pleasanton, CA 94566-3101

Jerry Wickham (w/orig enc), D. Drogos (w/enc), R. Garcia (w/enc)

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

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

REMEDIAL ACTION COMPLETION CERTIFICATION

September 19, 2008

Mr. James Gotcher
City of Pleasanton Public Works
P.O. Box 520
Pleasanton, CA 94566-0802

Subject: Fuel Leak Case No. RO0002923 and Geotracker Global ID T06019727284, City of Pleasanton Fire Station #1, 4444 Railroad Avenue, Pleasanton, CA 94566 – Case Closure

Dear Mr. Gotcher:

This letter confirms the completion of a site investigation and remedial action for the underground storage tanks formerly located 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 storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

This notice is issued pursuant to subdivision (h) of Section 25296.10 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,

Ariu Levi
Director
Alameda County Environmental Health

CASE CLOSURE SUMMARY
LEAKING UNDERGROUND FUEL STORAGE TANK - LOCAL OVERSIGHT PROGRAM

I. AGENCY INFORMATION

Date: September 4, 2008

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6791
Responsible Staff Person: Jerry Wickham	Title: Senior Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: City of Pleasanton Fire Station #1		
Site Facility Address: 4444 Railroad Avenue, Pleasanton, CA 94566		
RB Case No.: ---	Local Case No.: ---	LOP Case No.: RO0002923
URF Filing Date: 04/12/2006	Geotracker ID: T06019727284	APN: 94-105-1

Responsible Parties	Addresses	Phone Numbers
James Gotcher, City of Pleasanton Public Works	200 Old Bernal Avenue, P.O. Box 520, Pleasanton, CA 94566	925-426-2261

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1	500 gallons	Gasoline	Removed	09/12/1996
2	500 gallons	Diesel	Removed	09/12/1996

Piping			Removed	09/12/1996

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown. No holes, cracks, or other signs of failure were observed in the gasoline tank during removal. The diesel tank had rust, corrosion, and small holes on top.	
Site characterization complete? Yes	Date Approved By Oversight Agency: -----

Monitoring wells installed? No	Number: 0	Proper screened interval? NA
Highest GW Depth Below Ground Surface: 46 feet bgs	Lowest Depth: 46 feet bgs	Flow Direction: Based on regional flow directions, presumed to northwest
Most Sensitive Current Use: Drinking water source.		

Summary of Production Wells in Vicinity: The nearest water supply well (3S/1E 21B) is a municipal well located approximately 2,000 feet northeast of the site. Based on the cross gradient location of the well, the apparent absence of an impact to groundwater from the fuel release, and the distance from the site, the well is not expected to be a receptor for the site. No other water supply wells appear to be within 2,000 feet of the site.	
Are drinking water wells affected? No	Aquifer Name: Amador Subbasin of Livermore-Amador Groundwater Basin
Is surface water affected? No	Nearest SW Name: Arroyo Del Valle is approximately 1,300 feet north of the site
Off-Site Beneficial Use Impacts (Addresses/Locations): None	
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health and Livermore-Pleasanton Fire Department

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	Two 500-gallon tanks	Tanks were transported to Erickson, Inc. in Richmond, CA for disposal.	09/12/1996
Piping	Not reported	Not reported	09/12/1996
Free Product	---	---	---
Soil	Not reported	Off-site disposal destination not reported.	Not reported
Groundwater	---	---	---

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP
(Please see Attachments 1 through 6 for additional information on contaminant locations and concentrations)

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	<1	<50	<50	<50
TPH (Diesel)	150	<0.05	<50	<50
Oil and Grease	NA	NA	NA	NA
Benzene	<0.005	<0.0005	<0.5	<0.5
Toluene	<0.005	<0.0005	<0.5	<0.5
Ethylbenzene	<0.005	<0.0005	<0.5	<0.5
Xylenes	0.008	<0.0005	<0.5	<0.5
Lead	6.7	6.7	NA	NA
MTBE	<0.005(1)	<0.005(1)	<0.5(2)	<0.5(2)
Other (8240/8270)	NA(3)	NA(3)	NA(3)	NA(3)

(1) MTBE, DIPE, ETBE, TAME, EDB, and EDC <0.005 ppm; TBA <0.05 ppm in soil.
(2) MTBE, DIPE, ETBE, TAME, EDB, and EDC <0.5 ppb; TBA <2 ppb in groundwater.
(3) No analysis for other VOCs or SVOCs.

Site History and Description of Corrective Actions:

One 500-gallon gasoline underground storage tank (UST) and one diesel UST were removed on September 12, 1996 from Fire Station #1 in Pleasanton, CA. The gasoline UST had no obvious holes, cracks, or other signs of failure when removed. The diesel UST had rust, corrosion, and holes on the top of the tank. Following tank removal, soil samples were collected from beneath each of the tanks and the stockpile. No fuel hydrocarbons were detected in the two soil samples collected from beneath the USTs. The stockpile soil sample contained TPH as diesel and xylenes at concentrations of 150 and 0.008 ppm, respectively.

On June 26, 2007, one soil boring was advanced to a depth of 28 feet bgs at the location of the former USTs. Due to the depth limitation of the drill rig, the boring was terminated without encountering groundwater. No indications of soil contamination were observed in the boring but no soil samples were collected for chemical analysis.

A direct push drill rig was used to advance one soil boring to a depth of 55 feet bgs on April 3, 2008. Soil samples were continuously logged in the field and screened at five-foot intervals. No staining, odor, or elevated PID readings were observed in the soil samples. Fuel hydrocarbons and oxygenates were not detected in two soil samples selected for chemical analysis. Groundwater was encountered in the boring at a depth of 46 feet bgs. Fuel hydrocarbons and oxygenates were not detected in a grab groundwater sample collected from a temporary well casing installed in the boring.

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? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, it does not appear that the release would present a risk to human health based upon current and projected future land use and conditions.		
Site Management Requirements: None		
Should corrective action be reviewed if land use changes? No		
Was a deed restriction or deed notification filed? No		Date Recorded: --
Monitoring Wells Decommissioned: NA	Number Decommissioned: 0	Number Retained: 0
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: --		

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances:

None.

Conclusion:

Alameda County Environmental Health staff believe that the levels of residual contamination do not pose a significant threat to water resources, public health and safety, and the environment based upon the information available in our files to date. No further investigation or cleanup is necessary. ACEH staff recommend case closure for this site.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Jerry Wickham	Title: Senior Hazardous Materials Specialist
Signature: Jerry Wickham	Date: 09/10/08
Approved by: Donna L. Drogos, P.E.	Title: Supervising Hazardous Materials Specialist
Signature: Donna L. Drogos	Date: 09/10/08

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

VII. REGIONAL BOARD NOTIFICATION

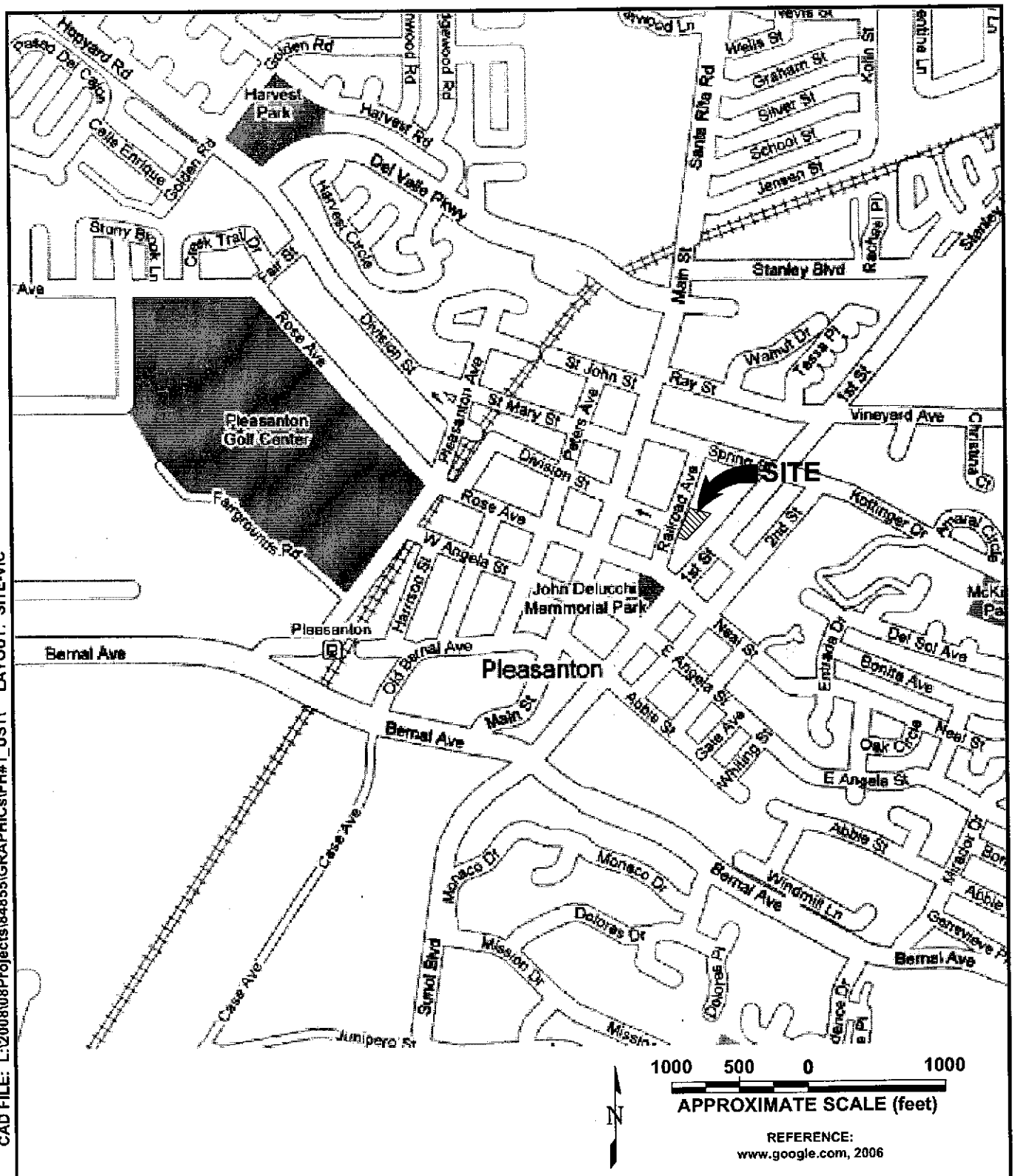
Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
RB Response: Concur, based solely upon information contained in this case closure summary.	Date Submitted to RB: 9/10/08
Signature: Cherie McCaulou	Date: 9/12/08

VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH: NA	Date of Well Decommissioning Report: NA	
All Monitoring Wells Decommissioned: NA	Number Decommissioned: 0	Number Retained: 0
Reason Wells Retained: NA		
Additional requirements for submittal of groundwater data from retained wells: NA		
ACEH Concurrence - Signature: Jerry Wickham		Date: 09/19/08

Attachments:
1. Site Vicinity Map (1 page)
2. Site Plan (1 page)
3. Soil Analytical Data (2 pages)
4. Groundwater Analytical Data (1 page)
5. Boring Logs (3 pages)

This document and the related CASE CLOSURE LETTER & REMEDIAL ACTION COMPLETION CERTIFICATION shall be retained by the lead agency as part of the official site file.

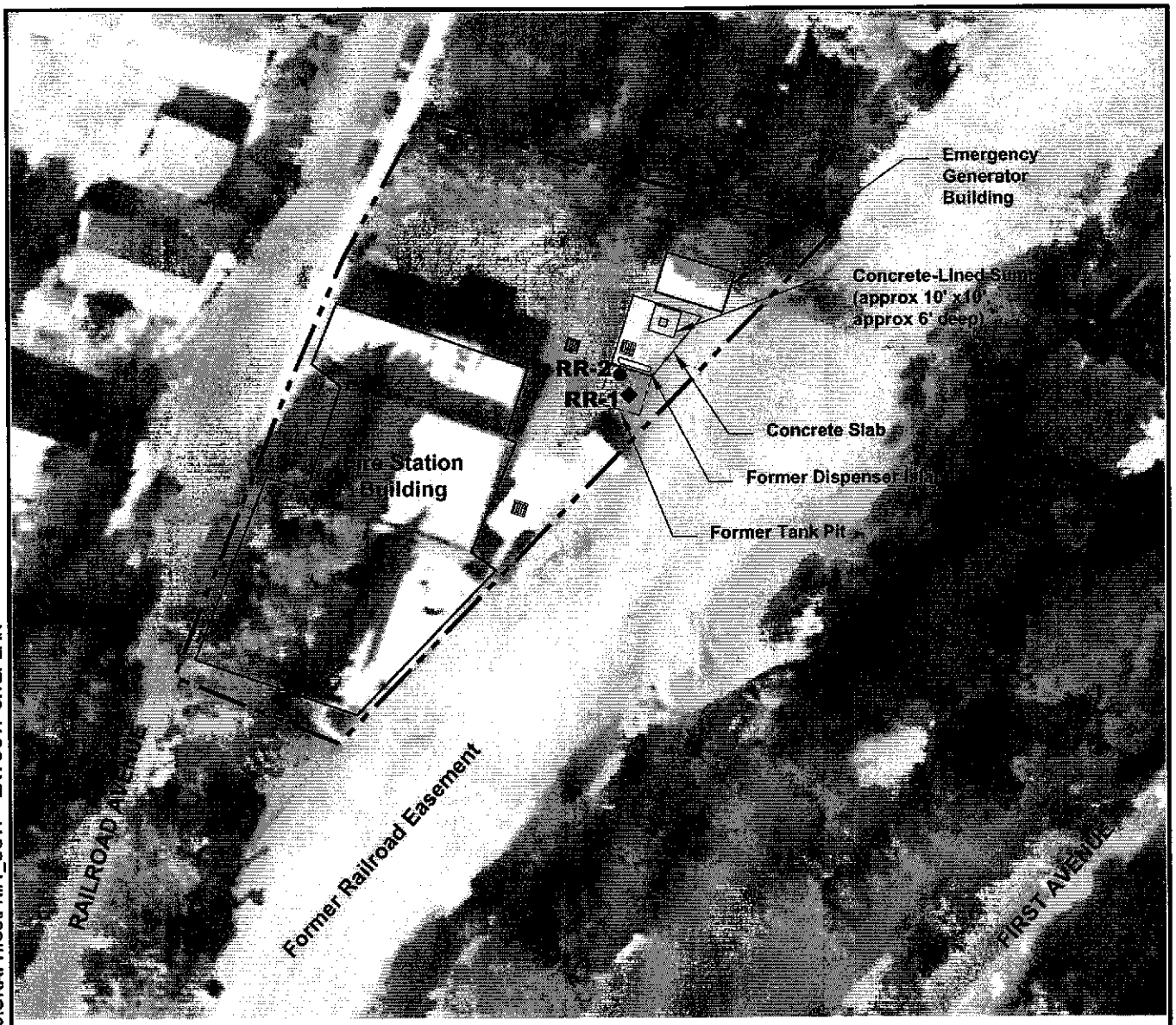


REFERENCE:
www.google.com, 2006

KLEINFELDER 7133 Koll Center Parkway, Suite 100 Pleasanton, CA 94566 PH. (925) 484-1700 FAX. (925) 484-5838 www.kleinfelder.com	**SITE VICINITY MAP** PLEASANTON FIREHOUSE #1 4444 RAILROAD AVENUE PLEASANTON, CALIFORNIA	DRAWN BY: LGS REVISED BY: CHECKED BY: JAL PLATE **1**
DRAWN: APR 2008 APPROVED BY:	PROJECT NO. 84855 FILE NAME:FH#1_UST.dwg	

ATTACHED IMAGES: Images: SITE-VIC.jpg Images: SITEPLAN.jpg
ATTACHED XREFS: XRef: Style A_08x11
PLEASANTON CAD FILE: L:\2008\08Projects\84855\GRAPHICs\FH#1_UST\ LAYOUT: SITE-VIC

ATTACHMENT 1



LEGEND

- PROPERTY LINE
- STORM DRAIN INLET
- RR-2 ● SOIL BORING (by Kleinfelder, 2008)
- RR-1 ◆ SOIL BORING (by Kleinfelder, 2007)

N

60 30 0 60

APPROXIMATE SCALE (feet)

REFERENCE: googleearthpro, 2008

NOTE: Locations are approximate.

KLEINFELDER

7133 Koll Center Parkway, Suite 100
Pleasanton, CA 94566
PH. (925) 484-1700 FAX. (925) 484-5838
www.kleinfelder.com

SITE PLAN

PLEASANTON FIREHOUSE #1
4444 RAILROAD AVENUE
PLEASANTON, CALIFORNIA

DRAWN BY:	LGS
REVISED BY:	
CHECKED BY:	JAL
PLATE	2

DRAWN: APR 2008 | APPROVED BY: | PROJECT NO. 84855 | FILE NAME:FH#1_UST.dwg

ATTACHED IMAGES: Images: SITE-VIC.jpg Images: SITEPLAN.jpg
ATTACHED XREFS: XRef: Style A_08x11
CAD FILE: L:\2008\08Projects\84855\GRAPHICs\FH#1_UST\ LAYOUT: SITEPLAN
PLEASANTON

ATTACHMENT 2

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS
FIRE STATION NO. 1
PLEASANTON, CALIFORNIA

		Sample ID and Date		RWQCB - ESLs	Hazardous Waste Criteria	
		RR-2-10	RR-2-30	Residential Land Use 2007	TTLC	STLC x 10
Analyte	**Method**	4/3/2008	4/3/2008			
Total Lead (mg/kg)	6020A	4.0	6.7	200	1,000	50
Petroleum Hydrocarbons (mg/kg)	8015C					
TPH (Gasoline)		ND (<1.0)	ND (<1.0)	83	---	---
TPH (Diesel)		ND (<1.0)	ND (<1.0)	83	---	---
BTEX and Oxygenates (mg/kg)	8260B					
Benzene		ND (<0.005)	ND (<0.005)	1.0	---	---
Toluene		ND (<0.005)	ND (<0.005)	40	---	---
Ethylbenzene		ND (<0.005)	ND (<0.005)	30	---	---
Total Xylenes		ND (<0.005)	ND (<0.005)	20	---	---
tert-Amyl Methyl Ehter (TAME)		ND (<0.005)	ND (<0.005)	NE	---	---
tert-Butyl Alcohol (TBA)		ND (<0.05)	ND (<0.05)	NE	---	---
Diisopropyl Ether (DIPE)		ND (<0.005)	ND (<0.005)	NE	---	---
Ethyl tert-Butly Ether (ETBE)		ND (<0.005)	ND (<0.005)	NE	---	---
Methyl tert-Butyl Ether (MTBE)		ND (<0.005)	ND (<0.005)	5.0	---	---
Ethylene Dibromide		ND (<0.004)	ND (<0.004)	0.05	---	---
1, 2-Dichloroethane		ND (<0.004)	ND (<0.004)	0.5	---	---

Samples were analyzed by McCampbell Analytical, Inc of Pittsburg, California, a state-certified analytical laboratory. Laboratory data met EPA and laboratory specifications for quality assurance and quality control.

[1] California Regional Water Quality Control Board, San Francisco Bay Region. *Screening For Environmental Concerns at Sites with Contaminated Soil and Groundwater, Volume 1: Summary Tier 1 Lookup Tables, Shallow Soils, Groundwater is Current or Potential Source of Drinking Water*, Interim Final, November 2007.

Acronyms/Abbreviations:

mg/kg - milligrams per kilogram
mg/L - milligrams per liter
ESLs - Environmental Screening Levels
RWQCB - Regional Water Quality Control Board (San Francisco Bay Region)
ND - Not detected at or above laboratory reporting limit
NE - Not established

ATTACHMENT 3

Soil Sample Analyses:

Samples taken at time of tank removal:

The soil samples were labeled:

PB-D-7'	soil sample from the diesel tank pit bottom
PB-G-7.5'	soil sample from the gasoline tank pit bottom
SP	soil sample from the stockpile

Summary of analyses of soil samples:

	TPH(g)	MTBE	Benzen e	Toulene	Ethyl Benzene	Xylenes
PB-D-7'	ND	--	ND	ND	ND	ND
PB-G-7.5'	ND	--	ND	ND	ND	ND
SP	ND	--	ND	ND	ND	ND

	TPH-d
PB-D-7'	ND
PB-G-7.5'	ND
SP	150

Disposal of stockpile: It is recommended that thetank pit be backfilled and compacted.

SPECIFIC INFORMATION REGARDING THE TANKS

Tank # 1(PB-D):

Size/capacity: 500 gallons

Former contents of the tank: diesel

Construction of the tank: single walled steel.

Age of the tank: unknown.

Condition of the tank upon removal: The tank was found to be in good condition, no holes were found in the tank.

Material sampled: soil

Tank # 2 (PB-G):

Size/capacity: 500 gallons

Former contents of the tank: gasoline

Construction of the tank: single walled steel.

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FIRE STATION NO. 1
PLEASANTON, CALIFORNIA

Analyte	Method	Sample ID and Date RR-2 4/3/2008	RWQCB - ESLs[1] Residential Land Use 2007
Petroleum Hydrocarbons (µg/L)	8015C		
TPH (Gasoline)		ND (<50)	83
TPH (Diesel)		ND (<50)	83
Volatile Organic Compounds (µg/L)	8260B		
Benzene		ND (<0.5)	1.0
Toluene		ND (<0.5)	40
Ethylbenzene		ND (<0.5)	30
Total Xylenes		ND (<0.5)	20
tert-Amyl Methyl Ehter (TAME)		ND (<0.5)	NE
tert-Butyl Alcohol (TBA)		ND (<2.0)	NE
Diisopropyl Ether (DIPE)		ND (<0.5)	NE
Ethyl tert-Butly Ether (ETBE)		ND (<0.5)	NE
Methyl tert-Butyl Ether (MTBE)		ND (<0.5)	5.0
Ethylene Dibromide		ND (<0.5)	0.05
1, 2-Dichloroethane		ND (<0.5)	0.5

Samples were analyzed by McCampbell Analytical, Inc of Pittsburg, California, a state-certified analytical laboratory. Laboratory data met EPA and laboratory specifications for quality assurance and quality control.

[1] California Regional Water Quality Control Board, San Francisco Bay Region. *Screening For Environmental Concerns at Sites with Contaminated Soil and Groundwater, Volume 1: Summary Tier 1 Lookup Tables, Shallow Soils, Groundwater is Current or Potential Source of Drinking Water*, Interim Final, November 2007.

Acronyms/Abbreviations:

mg/kg - milligrams per kilogram
µg/L - micrograms per liter
ESLs - Environmental Screening Levels
RWQCB - Regional Water Quality Control Board (San Francisco Bay Region)
ND - Not detected at or above laboratory reporting limit
NE - Not established

ATTACHMENT 4

Date Completed: 6/26/07 | Drilling method: Direct Push - Geoprobe 5400
Fisch Environmental
Logged By: J. Williams | Hammer Wt: None
Total Depth: 28.0 ft | Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
1							**ASPHALT CONCRETE** - 2 inches thick		
2							**AGGREGATE BASE** - dark brown (2.5Y 4/3), dry, loose, well graded, with fines		
3									
4				88	0.0		**GRAVELLY SAND with FINES (SP)**- dark olive-brown (2.5Y 3/3), moist, loose, poorly graded (FILL)		
5									
6									
7									
8				75	0.0		**FINE SAND with CLAY (SC)**- dark yellowish-brown (10YR 3/4), moist, loose, poorly graded, with gravel 1 to 3 cm		
9									
10							- increasing gravel content (approximately 20%)		
11									
12				100	0.0				
13									
14									
15							**COARSE SAND with GRAVEL and FINES (SW)** - dark yellowish-brown (10YR 4/6), moist, loose, well graded (approximately 15% gravel)		
16				100	0.6				
17									
18									
19									
20				100	0.0		**SANDY CLAY (CL)** - dark yellowish-brown (10YR 4/6), moist, medium stiff		
21									
22									
23							**FINE SAND with CLAY (SP)**- dark yellowish-brown (10YR 4/6), moist, loose, poorly graded		
24				100	0.4				
25									
26									
27							- yellowish-brown (10YR 5/6)		
28	RR-1--28			100			**Refusal at approximately 28 feet below ground surface.** **Boring backfilled with neat cement grout.**		
29									
30									
31									
32									
33									
34									
35									

KLEINFELDER

PROJECT NO. 84855

LOG OF BORING NO. RR-1

PLEASANTON FIREHOUSE #1
4444 RAILROAD AVENUE
PLEASANTON, CLAIFORNIA

PLATE

ATTACHMENT 5

L:\2008\08PROJECTS\84855\84855_FH1.GPJ
1/8/2008 11:48:34 AM

Date Completed: 4/3/08
Drilling method: Direct Push - Geoprobe 6600
Vironex
Logged By: J. Williams
Hammer Wt: None
Total Depth: 55.0 ft
Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
1							**ASPHALT CONCRETE** - 4 inches thick		
2							**AGGREGATE BASE** - olive-brown (2.5Y 4/3), moist, loose, well graded		
3							**FINE SAND with CLAY (SP)** - olive-brown (2.5Y 4/4), moist, loose, poorly graded		
4									
5				80	0.0				
6									
7							**CLAYEY SAND (SC)** - dark yellowish-brown (10YR 3/4), very moist, loose, fine grained, poorly graded		
8									
9									
10	RR-2--10			70	0.0		**SILTY SAND with CLAY and GRAVEL (SM)** - yellowish-brown (10YR 5/6), slightly moist, dense, poorly graded - increasing clay content		
11									
12									
13									
14									
15				80	0.0				
16									
17									
18									
19									
20				80	0.0				
21							**SANDY CLAY (CL)** - light yellowish-brown (10YR 6/4), moist, stiff		
22									
23									
24									
25				80	0.0				
26									
27									
28							**CLAYEY SAND (SC)** - yellowish-brown (10YR 5/6), moist, dense, poorly graded		
29									
30	RR-2--30			50	0.0				
31									
32									
33									
34									
35									

KLEINFELDER

PROJECT NO. 84855

LOG OF BORING NO. RR-2

PLEASANTON FIREHOUSE #1
4444 RAILROAD AVENUE
PLEASANTON, CLAIFORNIA

PLATE

L:\2008\08PROJECTS\84855\84855_FH1.GPJ

4/18/2008 11:49:35 AM

Date Completed: 4/3/08 | Drilling method: Direct Push - Geoprobe 6600
Vironex
Logged By: J. Williams
Hammer Wt: None
Total Depth: 55.0 ft | Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
36				80	0.0		**CLAYEY SAND (SC)** - continued		
37									
38									
39							**COARSE SAND with CLAY (SW)**- dark yellowish-brown (10YR 4/6), very moist, very dense, well graded		
40				40	0.0				
41									
42									
43							- increasing clay content		
44									
45				40	0.0				
46								▽	
47							**SANDY CLAY (CL)** - dark yellowish-brown (10YR 4/6), wet, soft, coarse sand grains, expansive clay		
48									
49									
50				80	0.0				
51									
52									
53							**COARSE SAND with CLAY (SW)**- dark yellowish-brown (10YR 4/6), saturated, very loose, well graded		
54									
55				40	0.0		**SANDY CLAY (CL)** - dark yellowish-brown (10YR 4/6), wet, medium stiff		
56							**Boring terminated at approximately 55 feet below ground surface.**		
57							**Boring backfilled with neat cement grout.**		
58									
59									
60									
61									
62									
63									
64									
65									
66									
67									
68									
69									
70									

KLEINFELDER

PROJECT NO. 84855

LOG OF BORING NO. RR-2

PLEASANTON FIREHOUSE #1
4444 RAILROAD AVENUE
PLEASANTON, CLAIFORNIA

PLATE

(cont'd)

L:\2008\08PROJECTS\84855\84855_FH1.GPJ

4/18/2008 11:49:35 AM