



ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-93

June 23, 2009

Mr. Jeff Pitcock  
Bay Counties Pitcock Petroleum  
220 Hookston Road  
Pleasant Hill, CA 94523

Mr. Mike Fuller  
Motorsports, Inc.  
P.O. Box 5050  
Livermore, CA 94551-5050

Subject: Fuel Leak Case No. RO0002865 and Geotracker Global ID T0600122511, Bay Counties CFN, 533 Exchange Court, Livermore, CA 94550 – Case Closure

Dear Mr. Pitcock and Mr. Fuller:

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 diesel remains in soil at concentrations up to 3,700 ppm.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Donna L. Drogos". The signature is fluid and cursive, written over a horizontal line.

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

#### Enclosures:

1. Remedial Action Completion Certificate
2. Case Closure Summary

cc:

Ms. Cherie McCaulou (w/enc)  
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

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

Ms. 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

Mr. James Gribi (w/o enc)  
Gribi Associates  
1090 Adams Street  
Benicia, CA 94510

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



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1131 Harbor Bay Parkway, Suite 250  
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**REMEDIAL ACTION COMPLETION CERTIFICATION**

June 23, 2009

Mr. Jeff Pitcock  
Bay Counties Pitcock Petroleum  
220 Hookston Road  
Pleasant Hill, CA 94523

Mr. Mike Fuller  
Motorsports, Inc.  
P.O. Box 5050  
Livermore, CA 94551-5050

Subject: Fuel Leak Case No. RO0002865 and Geotracker Global ID T0600122511, Bay Counties CFN, 533 Exchange Court, Livermore, CA 94550

Dear Mr. Pitcock and Mr. Fuller:

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: May 20, 2009

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: Bay Counties CFN Cardlock		
Site Facility Address: 533 Exchange Ct Livermore, CA 94550		
RB Case No.: ---	Local Case No.: ---	LOP Case No.: RO0002865
URF Filing Date: 3/31/05	Geotracker ID: T0600122511	APN: 099B-5751-2

Responsible Parties	Addresses	Phone Numbers
Jeff Pitcock, Bay Counties Pitcock Petroleum	220 Hookston Rd Pleasant Hill, CA94523	925-935-3800
Mike Fuller, Motorsports Inc	PO Box 5050 Livermore, CA 94511-5050	No phone number

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
Not Applicable				
Piping			---	

### III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown. Leak is suspected to be from vent pipes due to overfilling of UST system.		
Site characterization complete? Yes	Date Approved By Oversight Agency: -----	
Monitoring wells installed? No	Number: 0	Proper screened interval? Not Applicable
Highest GW Depth Below Ground Surface: 22.5 feet bgs	Lowest Depth: 22.5 feet bgs	Flow Direction: Unknown
Most Sensitive Current Use: Drinking Water Source		

Summary of Production Wells in Vicinity: No water supply wells are located within 2,000 feet of the site.	
Are drinking water wells affected? No	Aquifer Name: Mocho I Subbasin of Livermore-Amador Groundwater Basin
Is surface water affected? No	Nearest SW Name: Arroyo Las Positas is approximately 1,000 feet southwest 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	Not Applicable		
Piping	Not Applicable		
Free Product	Not Applicable		
Soil	Not Applicable		
Groundwater	Not Applicable		

**MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS** No information available from tank removals IONS  
**BEFORE AND AFTER CLEANUP**

(Please see Attachments 1 through 5 for additional information on contaminant locations and concentrations)

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	410 (MISC_SAMP_R_2005-02-01)	23 (MISC_SAMP_R_2007-06-29)	<50 (SWI_R_2006-06-26)	<50 (SWI_R_2006-06-26)
TPH (Diesel)	41,000 (MISC_SAMP_R_2005-02-01)	3,700 (MISC_SAMP_R_2007-06-29)	<50 (SWI_R_2006-06-26)	<50 (SWI_R_2006-06-26)
Oil and Grease	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
Benzene	<0.005 (MISC_SAMP_R_2005-02-01)	<0.005 (MISC_SAMP_R_2007-06-29)	<0.5 (SWI_R_2006-06-26)	<0.5 (SWI_R_2006-06-26)
Toluene	0.860 (MISC_SAMP_R_2005-02-01)	<0.005 (MISC_SAMP_R_2007-06-29)	<0.5 (SWI_R_2006-06-26)	<0.5 (SWI_R_2006-06-26)
Ethylbenzene	3.4 (MISC_SAMP_R_2005-02-01)	<0.005 (MISC_SAMP_R_2007-06-29)	<0.5 (SWI_R_2006-06-26)	<0.5 (SWI_R_2006-06-26)
Xylenes	7.5 (MISC_SAMP_R_2005-02-01)	<0.005 (MISC_SAMP_R_2007-06-29)	<0.5 (SWI_R_2006-06-26)	<0.5 (SWI_R_2006-06-26)
Lead	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
MTBE	<0.02(1) (MISC_SAMP_R_2005-02-01)	<0.05(1) (MISC_SAMP_R_2007-06-29)	<5.0(1) (SWI_R_2006-06-26)	<5.0(1) (SWI_R_2006-06-26)
Other (8240/8270)	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed

(1) No other fuel oxygenates analyzed.

#### Site History and Description of Corrective Actions:

The site is an operating bulk fueling facility in Livermore, CA. Surrounding land use is commercial and industrial. Five vent pipes are located along a concrete wall at the perimeter of the site. A release of fuel hydrocarbons occurred from the vent pipes and appears to have accumulated in a landscaped, unpaved area immediately outside the concrete wall. The release is suspected to have been caused by overfilling of the USTs.

Three shallow soil borings (less than two feet deep) were advanced in the landscaped area on December 3, 2004. Total petroleum hydrocarbons as gasoline (TPHg) and TPH as diesel (TPHd) were detected in soil at concentrations up to 410 and 41,000 ppm, respectively. Findings from this investigation suggested that soil had been impacted with gasoline and diesel fuels from the surface to approximately two feet below ground surface (bgs).

On May 17, 2006, an area approximately 4 feet by 8 feet was excavated to a depth of one foot bgs. Following excavation, four sidewall and one bottom confirmation soil samples were collected. Laboratory results from the confirmation soil samples indicated that the concentration of TPHd exceeded the screening level of 100 ppm in confirmation soil samples CS-1 collected along the north wall (3,700 ppm TPHd) and CS-3 collected along the south wall (130 ppm TPHd). On June 12, 2006, the excavation was extended approximately two feet to the south in the direction of soil sample CS-3. A total of approximately 48 yd<sup>3</sup> of soil was removed during the excavations on May 17 and June 12, 2006. The excavation could not be extended further to the north towards CS-1 (the north wall by the vent lines) due to the presence of a concrete wall.

Soil boring SB-1 was advanced within the impacted area to define the vertical extent of contamination. Soil samples collected at depths of 5, 10, 15, 20, and 30 feet bgs did not contain detectable concentrations of TPHg, TPHd, BTEX, and MTBE. A groundwater sample collected from boring SB-1 also did not contain detectable concentrations of TPHg, TPHd, BTEX, and MTBE.

On June 4, 2007, two shallow soil borings (HA -1 and HA -2) were advanced inside the perimeter wall to evaluate the extent of contamination north of the remedial excavation. Boring HA-2 was advanced approximately 2 feet north of the perimeter wall and HA-1 was advanced approximately 8 feet inside the perimeter wall. TPHd was detected in soil samples from HA-2 at concentrations ranging from 2.8 to 60 ppm. TPHd, TPHg, BTEX, and MTBE were not detected in soil samples from HA-1.

**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 land use and conditions.		
Site Management Requirements: Case closure for the fuel leak site is granted for commercial land use only. If a change in land use to residential or other conservative scenario occurs at this property, Alameda County Environmental Health must be notified and the case needs to be re-evaluated.		
Should corrective action be reviewed if land use changes? Yes		
Was a deed restriction or deed notification filed? No		Date Recorded: --
Monitoring Wells Decommissioned: No	Number Decommissioned: 0	Number Retained: 0
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: --		



**V. ADDITIONAL COMMENTS, DATA, ETC.**

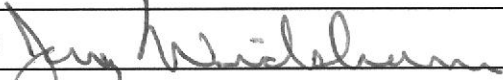
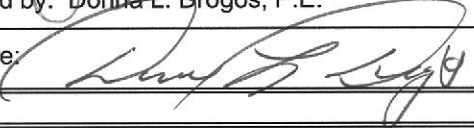
Considerations and/or Variances:

Specific cause of release from vent pipes is unknown. Portions of the UST system outside of the area of the discharge from the vent pipes were not investigated.

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: 	Date: 05/21/09
Approved by: Donna L. Drogos, P.E.	Title: Supervising Hazardous Materials Specialist
Signature: 	Date: 05/21/09

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:
Signature: <i>Ch McCaulou</i> *	Date: <i>6/19/09</i>

\* LOP agency to update all required fields in Geotracker database.

**VIII. MONITORING WELL DECOMMISSIONING**

Date Requested by ACEH: No wells installed.	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: <i>Jerry Michelson</i>	Date: <i>06/19/09</i>	

Attachments:

1. Site Vicinity Map (1 page)
2. Site Plans, (2 pages)
3. Results of Soil Sampling; Site Plan Showing Soil Sampling Analytical Locations (2 pages)
4. Soil and Groundwater Analytical Data (3 pages)
5. Boring Logs (1 page)

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

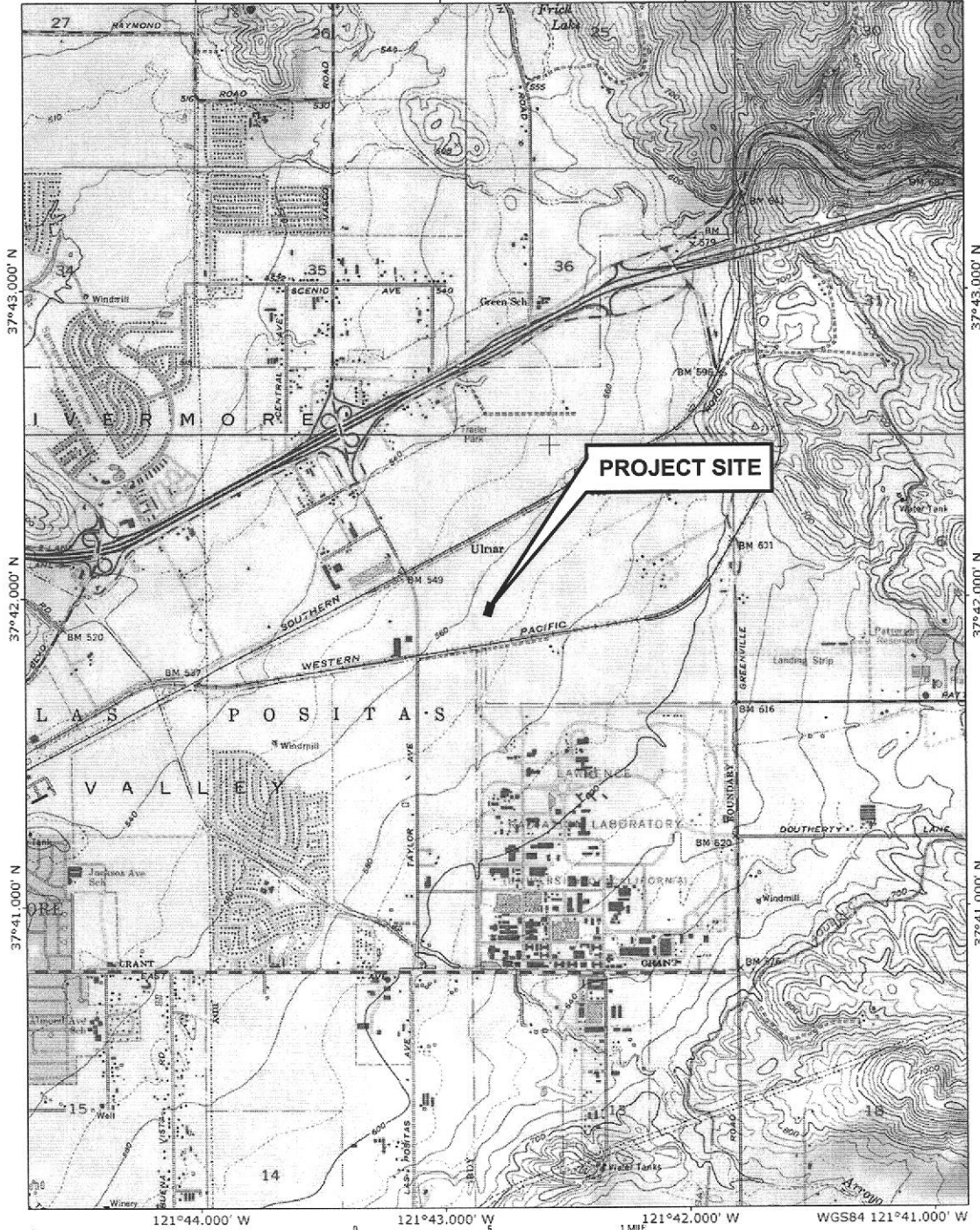
TOPO! map printed on 02/02/05 from "California.tpo" and "Untitled.tpg"

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121°43.000' W

121°42.000' W

WGS84 121°41.000' W



Printed from TOPO! ©2000 Wildflower Productions (www.topo.com)

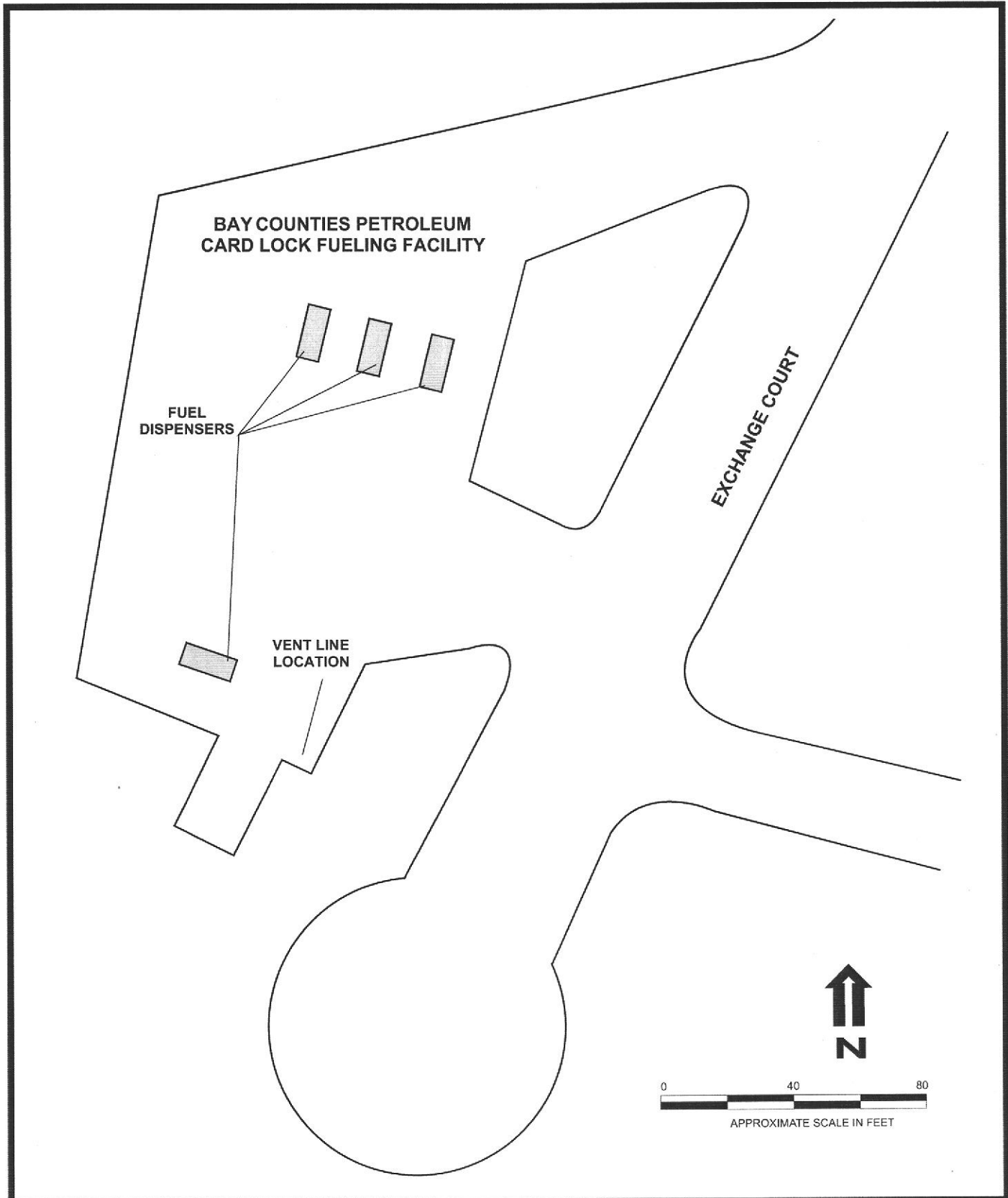
DESIGNED BY:	CHECKED BY:
DRAWN BY: JG	SCALE:
PROJECT NO: 157-02-01	

### SITE VICINITY MAP

BAY COUNTIES PETROLEUM  
533 EXCHANGE COURT  
LIVERMORE, CALIFORNIA

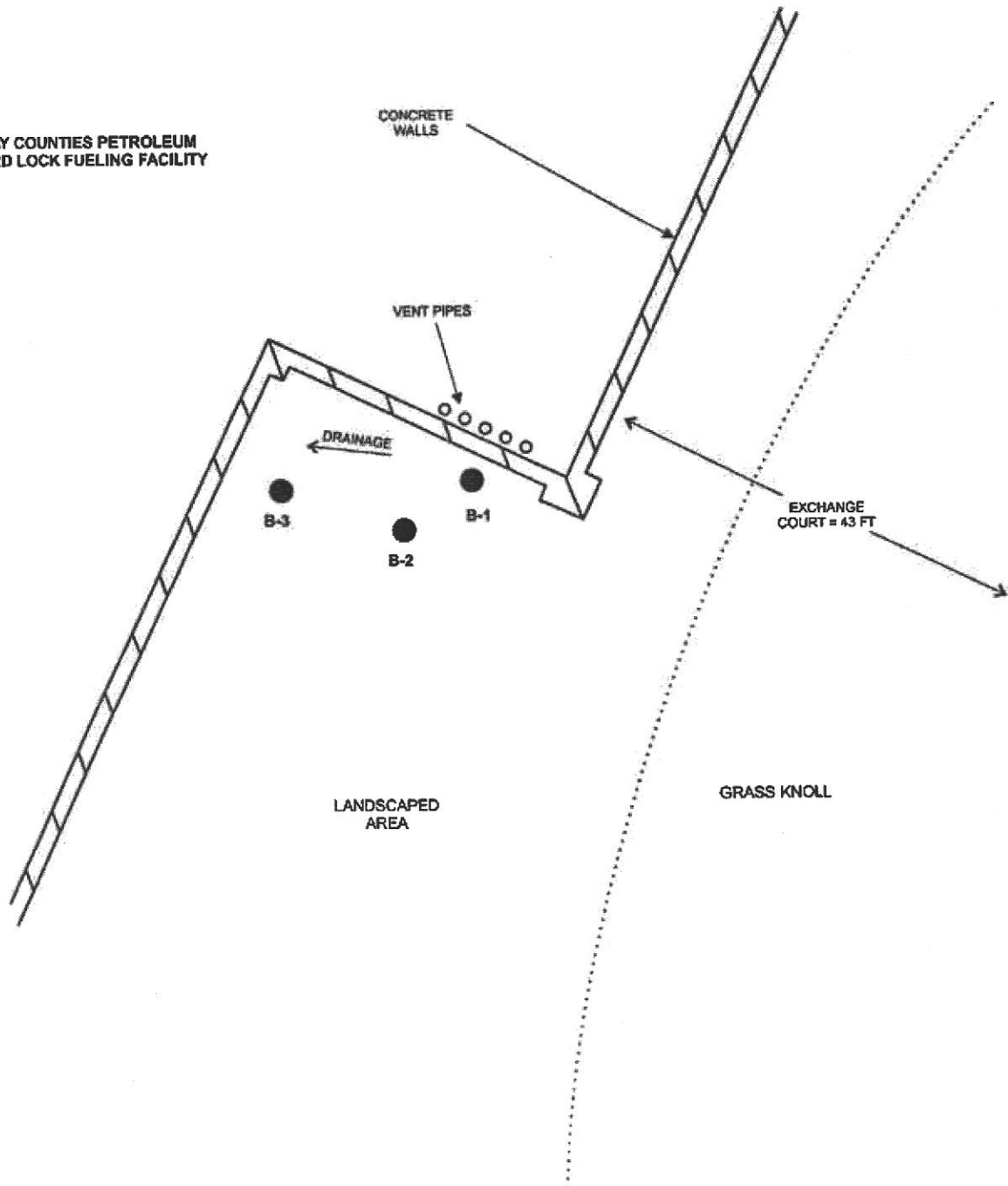
DATE: 06/21/2006	FIGURE: 1
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**ATTACHMENT 1**



DESIGNED BY:	CHECKED BY:	<b>SITE PLAN</b> BAY COUNTIES PETROLEUM 533 EXCHANGE COURT LIVERMORE, CALIFORNIA	DATE: 06/25/2007	FIGURE:
DRAWN BY: JG	SCALE:		<b>ATTACHMENT 2</b>	
PROJECT NO: 157-02-01				

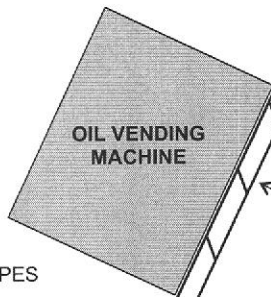
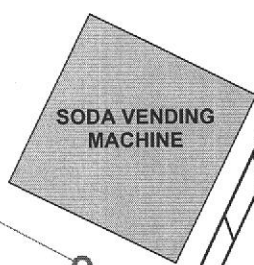
**BAY COUNTIES PETROLEUM  
CARD LOCK FUELING FACILITY**



DESIGNED BY:	CHECKED BY:	<b>SITE PLAN</b>	DATE: 02/01/05	2
DRAWN BY: JG	SCALE:		<b>GRIBI Associates</b>	
PROJECT NO: 157-02-01		BAY COUNTIES PETROLEUM 533 EXCHANGE COURT LIVERMORE, CALIFORNIA		

**BAY COUNTIES PETROLEUM  
CARD LOCK FUELING FACILITY**

HA-1		
DEPTH	2.0	4.0
TPH-D:	ND	ND
TPH-G:	ND	ND
B:	ND	ND
T:	ND	ND
E:	ND	ND
X:	ND	ND
MTBE:	ND	ND



UST ASSOCIATED  
WIRING PULL BOX

VENT PIPES

EXCHANGE COURT

EXCHANGE COURT = 43 FT

HA-2		
DEPTH	1.5'	3.5'
TPH-D:	60	2.8
TPH-G:	ND	ND
B:	ND	ND
T:	ND	ND
E:	ND	ND
X:	ND	ND
MTBE:	ND	ND

CONCRETE  
WALLS

Area of  
Soil Removal

CS-1	
DEPTH	0.5'
TPH-D:	3,700
TPH-G:	23
B:	ND
T:	ND
E:	ND
X:	ND
MTBE:	ND

GRASS KNOLL

DRAINAGE

LANDSCAPED  
AREA

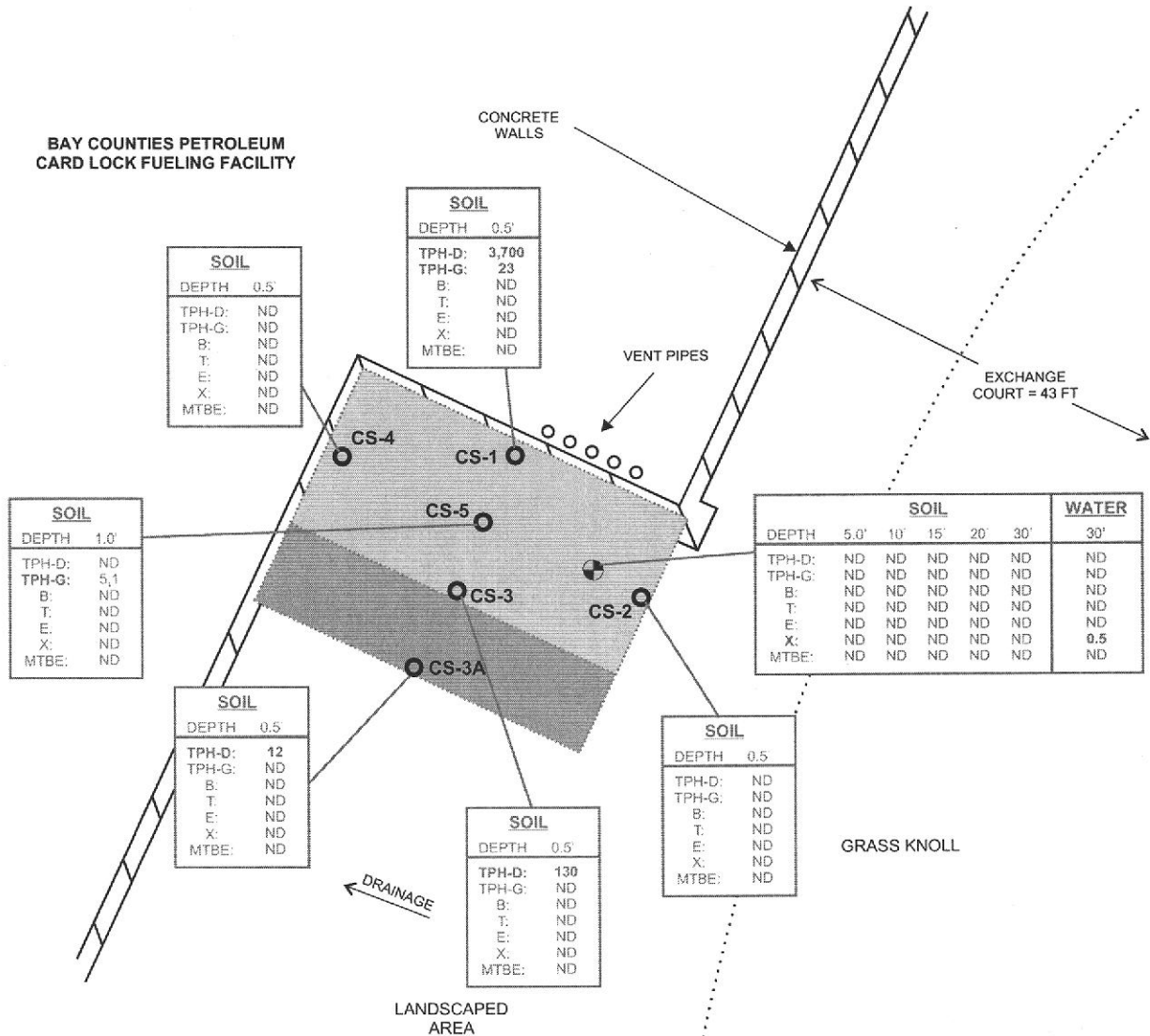


- HA-1 - HAND AUGER SOIL SAMPLE LOCATION (JUNE 2007)
- CS-1 - CONFIRMATION SOIL SAMPLE LOCATION (MAY 2006)
- ▨ - AREA OF SOIL REMOVAL (MAY-JUNE 2006)

DESIGNED BY:	CHECKED BY:	<b>RESULTS OF SOIL SAMPLING</b> BAY COUNTIES PETROLEUM 533 EXCHANGE COURT LIVERMORE, CALIFORNIA	DATE: 06/25/2007	FIGURE: 2
DRAWN BY: JG	SCALE:		<b>ATTACHMENT 3</b>	
PROJECT NO: 157-02-01				



**BAY COUNTIES PETROLEUM  
CARD LOCK FUELING FACILITY**



SOIL	
DEPTH	0.5'
TPH-D:	ND
TPH-G:	ND
B:	ND
T:	ND
E:	ND
X:	ND
MTBE:	ND

SOIL	
DEPTH	0.5'
TPH-D:	3,700
TPH-G:	23
B:	ND
T:	ND
E:	ND
X:	ND
MTBE:	ND

SOIL	
DEPTH	1.0'
TPH-D:	ND
TPH-G:	5,1
B:	ND
T:	ND
E:	ND
X:	ND
MTBE:	ND

SOIL	
DEPTH	0.5'
TPH-D:	12
TPH-G:	ND
B:	ND
T:	ND
E:	ND
X:	ND
MTBE:	ND

SOIL	
DEPTH	0.5'
TPH-D:	130
TPH-G:	ND
B:	ND
T:	ND
E:	ND
X:	ND
MTBE:	ND

DEPTH	SOIL					WATER
	5.0'	10'	15'	20'	30'	30'
TPH-D:	ND	ND	ND	ND	ND	ND
TPH-G:	ND	ND	ND	ND	ND	ND
B:	ND	ND	ND	ND	ND	ND
T:	ND	ND	ND	ND	ND	ND
E:	ND	ND	ND	ND	ND	ND
X:	ND	ND	ND	ND	ND	0.5
MTBE:	ND	ND	ND	ND	ND	ND

SOIL	
DEPTH	0.5'
TPH-D:	ND
TPH-G:	ND
B:	ND
T:	ND
E:	ND
X:	ND
MTBE:	ND

- ⊕ SB-1 - SOIL BORING LOCATION
- CS-3A - CONFIRMATION SOIL SAMPLE LOCATION
- ▨ - AREA OF SOIL EXCAVATED ON MAY 17, 2006
- ▩ - AREA OF SOIL EXCAVATED ON June 9, 2006



Soil results are in milligrams per kilogram.  
Groundwater results are in micrograms per liter.

DESIGNED BY:	CHECKED BY:	<b>SITE PLAN SHOWING SOIL SAMPLING LOCATIONS</b> BAY COUNTIES PETROLEUM 533 EXCHANGE COURT LIVERMORE, CALIFORNIA	DATE: 06/21/2006	FIGURE: 2
DRAWN BY: JG	SCALE:		<b>GRIBI Associates</b>	
PROJECT NO: 157-02-01				

**Table 1**  
**SUMMARY OF SOIL LABORATORY ANALYTICAL RESULTS**  
 Pitcock Petroleum, Livermore, CA

Sample ID	Sample Depth							
		TPH-D	TPH-G	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE
<b>EXCAVATION CONFIRMATION SAMPLING</b>								
Soil results in milligrams per kilogram (mg/kg) / parts per million (ppm)								
CS-1	0.5 ft	3,700	23	<0.005	<0.005	<0.005	<0.005	<0.05
CS-2	0.5 ft	6.2	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
CS-3	0.5 ft	130	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
CS-3A	0.5 ft.	12	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
CS-4	0.5 ft	6.6	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
CS-5	0.5 ft	50	5.1	<0.005	<0.005	<0.005	<0.005	<0.05
<b>SOIL BORING</b>								
Soil results in milligrams per kilogram (mg/kg) / parts per million (ppm)								
SB-1-5'	5.0 f.	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
SB-1-10'	10.0 ft	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
SB-1-15'	15.0 ft	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
SB-1-20'	20.0 ft	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
SB-1-30'	30 ft.	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
Water results in micrograms per liter (ug/L) / parts billion (ppb)								
SB-1-GW	30 ft	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0

**NOTES:**

All excavation confirmation soil samples were collected on May 17, 2006, except CS-3A, which was collected on June 9, 2006.

All soil boring soil and groundwater samples were collected on June 12, 2006.

TPH-D = Total Petroleum Hydrocarbons as Diesel

TPH-G = Total Petroleum Hydrocarbons as Gasoline

MTBE = Methyl Tert-Butyl Ether

TBA = Tert-Butyl Alcohol

TAME = Tert-amyl Methyl Ether

ETBE = Ethyl tert-butyl ether



**Task 1 Conduct Sampling Activities.** Gribi Associates collect soil samples from three locations, B-1, B-2, and B-3, in the landscaped area next to the concrete wall adjacent to the UST vent lines. The three sample locations are shown on Figure 2. Soil samples were collected at depths ranging from surface to 2.0 feet using either a shovel (shallow samples) or a hand auger (deeper samples). Each soil sample was collected directly from the shovel or auger in a brass sampling tube and sealed with teflon tape and plastic end-caps. The samples were placed in an ice-chilled container and submitted to a California-certified laboratory under chain-of-custody. Hand auger equipment were thoroughly cleaned between each sample location by triple-rinsed first with water, then with dilute tri-sodium phosphate solution, and finally with distilled water.

**Task 3 Conduct Laboratory Analyses.** Gribi Associates analyze five soil samples for the following parameters

- USEPA 8015M Total Petroleum Hydrocarbons as Diesel/Motor Oil (TPH-D/MO)
- USEPA 8015M Total Petroleum Hydrocarbons as Gasoline (TPH-G)
- USEPA 8020/602 Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)
- USEPA 8020/602 Methyl-t-butyl Ether (MTBE)

All analyses were conducted by Sunstar Laboratories, a California-certified analytical laboratory, with standard method turn around on lab results.

**Results of Sampling Activities**

Soils encountered during the sampling included landscape materials (bark and leaves) to about three inches in depth, followed by grey clays down to total depths. Apparent hydrocarbon odors were noted in the shallow samples collected from B-1 and B-2. Laboratory analytical results are summarized in Table 1 and on Figure 3B. The laboratory data report record is contained in Appendix A.

Table 1 SUMMARY OF SOIL ANALYTICAL RESULTS Bay Counties Vent Area Soil Sampling								
Sample ID	Sample Depth	Constituent (milligrams per kilogram, ppm)						
		TPH-D	TPH-G	B	T	E	X	MTBE
B-1-0.5	0.5 ft	5.2	100	<0.005	0.860	0.660	1.0	<0.020
B-1-2.0	2.0 ft	17	8.9	<0.005	<0.005	0.017	0.027	<0.020
B-2-Surf	Surface	41,000	410	<0.005	0.380	3.4	6.2	<0.020
B-2-0.5	0.5 ft	6,700	<0.50	<0.005	<0.005	<0.005	<0.005	<0.020
B-3-1.0	1.0 ft	48	22	<0.005	0.810	<0.005	7.5	<0.020

**Table 1**  
**SOIL HYDROCARBON ANALYTICAL RESULTS**  
 533 Exchange Court, Livermore, California

<i>Sample ID</i>	<i>Sample Depth</i>	<i>Concentration in milligrams per kilogram (mg/kg), parts per million (ppm)</i>						
		<i>TPH-D</i>	<i>TPH-G</i>	<i>B</i>	<i>T</i>	<i>E</i>	<i>X</i>	<i>MTBE</i>
HA-1-2.0'	2.0 feet	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
HA-1-4.0'	4.0 feet	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
HA-2-1.5'	1.5 feet	<b>60</b>	<0.50	<0.005	<0.005	<0.005	<0.005	<0.05
HA-2-3.5'	3.5 feet	<b>2.8</b>	<0.50	<0.005	<0.005	<0.005	<0.005	<0.05
<b>Soil ESL</b>		<b>100</b>	<b>100</b>	<b>0.044</b>	<b>2.9</b>	<b>3.3</b>	<b>2.3</b>	<b>0.023</b>

TPH-G = Total Petroleum Hydrocarbons as Gasoline

TPH-D = Total Petroleum Hydrocarbons as Diesel

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

<0.50 = Not detected above the expressed value.

ESL = Shallow Soil Environmental Screening Levels for evaluation of commercial/industrial land use, where groundwater is a current or potential drinking water source, as contained in

*Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, San Francisco Bay Regional Water Quality Control Board, Interim Final, February 2005, Appendix 1, Tables A-2.

# LOG OF SOIL BORING

SHEET 1 OF 1

BORING NUMBER : **SB-1**

BORING LOCATION: 533 EXCHANGE COURT  
LIVERMORE, CALIFORNIA

## GRIBI ASSOCIATES

DRILLING CONTRACTOR: GREGG DRILLING

DRILLING METHOD: DIRECT-PUSH

BORING TYPE: SOIL BORING

BOREHOLE DIAMETER: 2.25 INCHES

PROJECT NAME: PITCOCK PETROLEUM

COMPLETION METHOD: MONITORING WELL

PROJECT NUMBER:

START DATE: 06/12/2006

BORING TOTAL DEPTH: **30.0 FEET**

COMPLETION DATE: 06/12/2006

GROUNDWATER DEPTH: **25.0 FEET**

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS ▽ - INITIAL ◄ - FINAL	USCS	LOG OF MATERIAL	PIEZOMETER WELL INSTALLATION
10	SB-1-5'	5.0 FT.			CL	0.0 - 5.0 ft. <b>Clay (CL)</b> Dark brown, slightly sand, moist to wet, soft, increasing silt with depth, no odor or staining.	
					ML	5.0 - 7.5 ft. <b>Silt (ML)</b> Light brown, moist, soft, increasing clay with depth, no odor or staining.	
	SB-1-10'	10.0 FT.			CL	7.5 - 10.0 ft. <b>Clay (CL)</b> Brown, moist, stiff, no odor or staining.	
					ML	10.0 - 13.0 ft. <b>Silt (ML)</b> Brown, very stiff to hard, dry to slightly moist, some clay, no odor or staining.	
	SB-1-15'	15.0 FT.			SW	13.0 - 17.0 ft. <b>Gravelly Sand (SW)</b> Brown, fine to coarse sand, fine to medium gravel, dry, no odor or staining.	
					SM	17.0 - 19.0 ft. <b>Silty Sand (SM)</b> Brown, very fine grain, moist, no odor or staining.	
20	SB-1-20'	20.0 FT.			SW	19.0 - 22.0 ft. <b>Sand (SW)</b> Brown, fine to coarse grain, dry, no odor or staining.	
					SM	22.0 - 25.0 ft. <b>Silty Sand (SM)</b> Brown, very fine grain, moist to wet, no odor or staining.	
30	SB-1-30'	30.0 FT.		▽	SC	25.0 - 30.0 ft. <b>Clayey Sand (SC)</b> Brown, , fine grain, moist to wet, no odor or staining.	

**ATTACHMENT 5**