



**EFI Global**  
Complex Issues • Solid Solutions

111 Deerwood Road  
Suite 195  
San Ramon, CA 94583  
Tf: 800-506-0844  
Tel: 925-820-9580  
Fax: 925-820-9587  
www.ehglobal.com

Alameda County

MAR 16 2009

Environmental Health

June 28, 2005

Leroy Griffin  
Oakland City Fire Department  
1605 Martin Luther King Jr. Way  
Oakland, California 94612

Re: **Confirmation Sample Results – Red Hanger Cleaners, 6235 College Avenue, Oakland, California**  
**EFI PN: 98360-00-051**

Dear Mr. Griffin:

EFI is pleased to submit this report documenting the findings of the confirmation sampling investigation conducted on June 28, 2005. On behalf of the Red Hanger Cleaners Site and at your request, EFI Global (EFI) collected one grab groundwater sample (SB-6) directly down gradient of the dry cleaning units at the Subject Property.

We hope that these findings will be in support of our previous "no further action" request for the Subject Property regarding the residual concentrations of tetrachloroethene (PCE) detected in the shallow soil and groundwater samples collected from the property in May 2005 by AEI Consultants. The Site location is shown on Figure 1, and the Site Layout is shown on Figure 2.

#### **Field and Laboratory Methodology**

The following sections discuss activities that were conducted as part of the subsurface investigation conducted on June 28, 2005.

#### ***Pre-field Activities***

The purpose of the pre-field activities was to appropriately plan the work and to ensure that onsite personnel were prepared for potential safety hazards at the property. The pre-field activities included the following:

- EFI prepared a site specific Health and Safety Plan (HASP) for the work proposed in accordance with the requirements of the State of California General Industry Safety Order (GISO) 5192 and Title 29 Code of Federal Regulations, Section 1910.120 (29 CFR 1910.120). The HASP detailed the work to be performed, safety precautions, emergency response procedures, nearest hospital information, and onsite personnel responsible for managing emergency situations. Prior to starting work, a "tailgate" safety meeting including discussion of the safety hazards and precautions relevant to the particular job was held with



all personnel working on the job. A copy of the HASP was kept onsite during field activities.

- The borehole locations were marked with temporary white marking paint. Underground Service Alert (USA) was notified at least 48 hours prior to performing drilling as required by law.
- In addition, EFI utilized California Utility Surveys (CU Surveys) to locate utility lines in the vicinity of the proposed borings prior to drilling.
- EFI obtained the appropriate soil boring permits (Permit No. W2005-0662) from the Alameda County Public Works Agency.

### ***Field Investigation***

On June 28, 2005, Ecology Control Associates (C-57 Lic. #695970), under the supervision of EFI, advanced one (1) borehole (SB-6) at the subject property as depicted on Figure 2. The exterior borehole was installed using a truck-mounted Geoprobe. One grab water samples collected the borehole using a dedicated Teflon bailer.

The borehole was inspected for physical characteristics indicative of adverse impacts, such as unusual odors, colors/hues, and chemical sheens. The borehole was continuously cored to a depth of 20 feet bgs. A hand held photo-ionization detector (PID) was used to screen the soil. No VOCs were noted in the soil cores collected in the field. The soils consisted of brown silty clays to 8 feet bgs, clays from 8 to 12 feet bgs, and clayey silts from 12 to 20 feet bgs. Groundwater was encountered at a depth of approximately 20 feet bgs and stabilized at a static level of approximately 16 feet bgs. No odors were noted in the groundwater sample collected.

The groundwater samples were placed in HCL preserved 40-ml glass laboratory supplied VOAs, labeled, and placed into a cooler maintained at 4 degree Celsius or lower.

### ***Analytical Methodology***

Samples collected during the investigation were analyzed using United States Environmental Protection Agency (USEPA)-approved methods:

- USEPA Method 8260 for volatile organic compounds (VOCs)

Laboratory analytical data sheets and chain of custody record are included in as an Attachment.

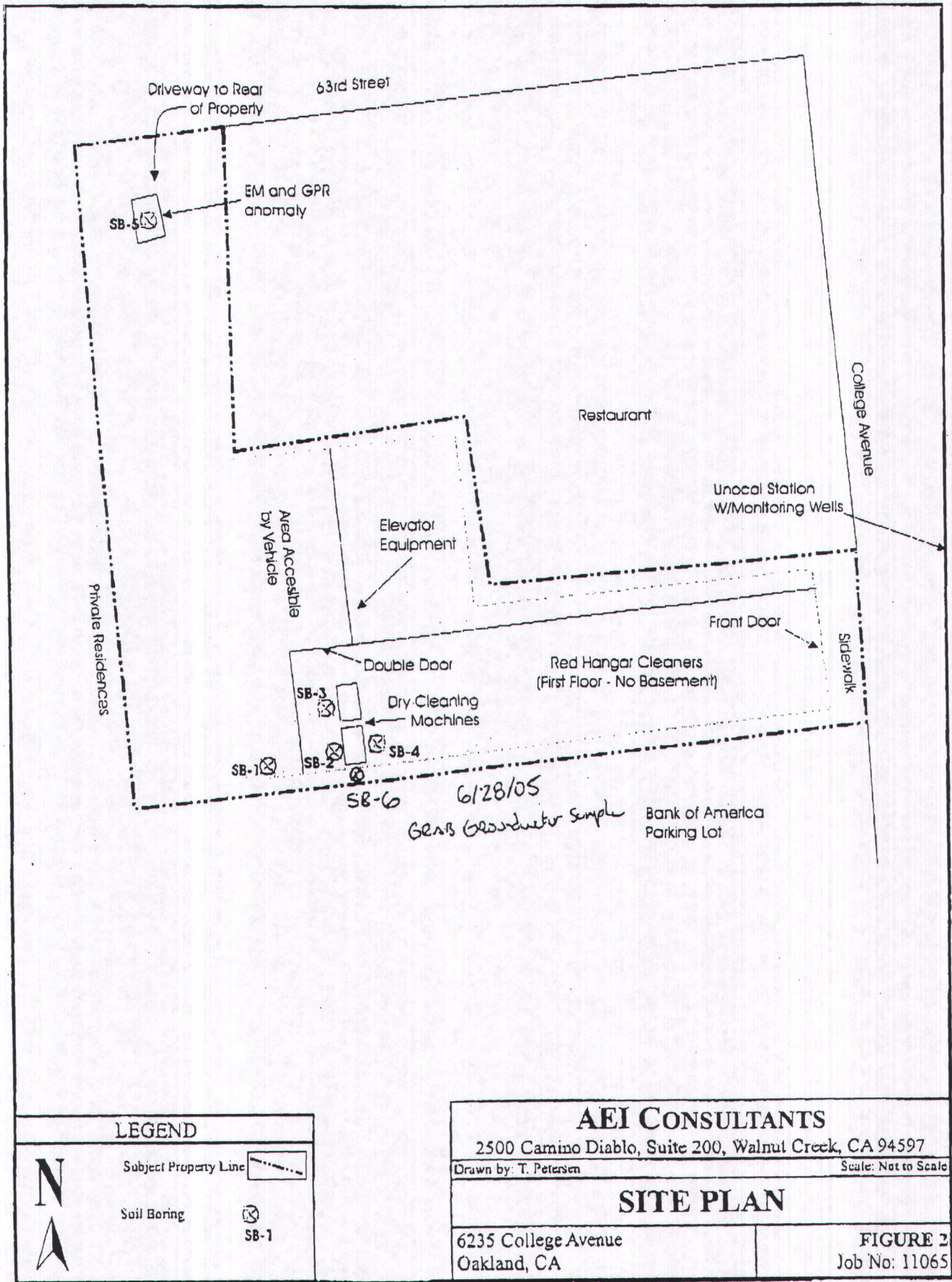
### **Findings**

From the field observations, both visually and field screening with the PID unit, no adverse odors or presence of PCE was noted. Results from the laboratory indicated that PCE was detected in the groundwater sample at a concentration of 15 ppb, and chloroform at a concentration of 0.83 ppb.











**LEGEND**



Subject Property Line 

Soil Boring  SB-1

**AEI CONSULTANTS**

2500 Camino Diablo, Suite 200, Walnut Creek, CA 94597

Drawn by: T. Petersen

Scale: Not to Scale

**SITE PLAN**

6235 College Avenue  
Oakland, CA

**FIGURE 2**  
Job No: 11065



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**ATTACHMENT B**  
**Analytical Data Sheets and Chain of Custody Record**



Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street  
Hayward, CA 94544-1395  
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 06/21/2005 By jamesy  
Permits Issued: W2005-0662

Permits Valid from 06/27/2005 to 06/27/2005

Application Id: 1119396205657  
Site Location: 6235 College Ave  
Project Start Date: 06/27/2005

City of Project Site:Oakland

Completion Date:06/27/2005

Applicant: EFI Global - Mark Williams  
111 Deerwood Rd, San Ramon, CA 94588  
Property Owner: Valliance Capital  
1899 E. Roseville Pwky, Roseville, CA 95661  
Client: \*\* same as Property Owner \*\*

Phone: 925-820-9580

Phone: --

Total Due: \$200.00  
Total Amount Paid: \$200.00  
Paid By: CHECK PAID IN FULL

Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 1 Boreholes  
Driller: ECA - Lic #: 695970 - Method: other

Work Total: \$200.00


Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2005-0662	06/21/2005	09/25/2005	1	2.00 in.	20.00 ft

Specific Work Permit Conditions

- Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.
- Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
- Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.
- Applicant shall contact Johnson Tang for a inspection time at 510-670-6450 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.



 <b>McCAMPBELL ANALYTICAL INC.</b>	110 2nd Ave South, #D7, Pucheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 <a href="http://www.mccampbell.com">http://www.mccampbell.com</a> E-mail: <a href="mailto:main@mccampbell.com">main@mccampbell.com</a>
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Date: 06/28/05.

ATTN: Mark Williams

Message: Some day rush results for Valliance Cap

FROM: Synke

Number of pages faxed including this one: 5

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 <b>McC Campbell Analytical, Inc.</b>		110 2nd Avenue South, #107, Pacheco, CA 94553-3360 Telephone: 925-798-1620 Fax: 925-794-1622 Website: www.mcccampbell.com E-mail: main@mcccampbell.com			
EPI  111 Deerwood Rd, Suite 195  San Ramon, CA 94583	Client Project ID: Valliance Cap		Date Sampled: 06/28/05		
			Date Received: 06/28/05		
	Client Contact: Mark Williams		Date Extracted: 06/28/05		
	Client P.O.:		Date Analyzed: 06/28/05		
<b>Halogenated Volatile Organics by P&amp;T and GC-MS (3010 Basic Target List)*</b>					
Extraction Method: SW8030B		Analytical Method: SW8260B		Work Order: 0506508	
Lab ID	0506508-001A			Reporting Limit for DF=1	
Client ID	SB-6				
Matrix	W				
DF	1			S	W
<b>Compound</b>		<b>Concentration</b>		<b>µg/kg</b>	<b>µg/L</b>
Bromodichloromethane	ND			NA	0.5
Bromoform	ND			NA	0.5
Bromomethane	ND			NA	0.5
Carbon Tetrachloride	ND			NA	0.5
Chlorobenzene	ND			NA	0.5
Chloroethane	ND			NA	0.5
1-Chloroethyl Vinyl Ether	ND			NA	1.0
Chloroform	0.83			NA	0.5
Chloromethane	ND			NA	0.5
Dibromochloromethane	ND			NA	0.5
1,2-Dichlorobenzene	ND			NA	0.5
1,3-Dichlorobenzene	ND			NA	0.5
1,4-Dichlorobenzene	ND			NA	0.5
Dichlorodifluoromethane	ND			NA	0.5
1,1-Dichloroethane	ND			NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND			NA	0.5
1,1-Dichloroethene	ND			NA	0.5
cis-1,2-Dichloroethene	ND			NA	0.5
trans-1,2-Dichloroethene	ND			NA	0.5
1,2-Dichloropropane	ND			NA	0.5
cis-1,3-Dichloropropane	ND			NA	0.5
trans-1,3-Dichloropropane	ND			NA	0.5
Methylene chloride	ND			NA	0.5
1,1,2,2-Tetrachloroethane	ND			NA	0.5
Tetrachloroethene	15			NA	0.5
1,1,1-Trichloroethane	ND			NA	0.5
1,1,2-Trichloroethane	ND			NA	0.5
Trichloroethene	ND			NA	0.5
Trichlorofluoromethane	ND			NA	0.5
Vinyl Chloride	ND			NA	0.5
<b>Surrogate Recoveries (%)</b>					
%SS1:	101				
%SS2:	98				
%SS3:	95				
Comments	i				
* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.					
ND means not detected above the reporting limit; NA means analyte not applicable to this analysis.					
# surrogate diluted out of range or surrogate coelutes with another peak.					
h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.					