

ALL ENVIRONMENTAL, INC.

901 Moraga Road, Suite C Lafayette, CA 94549-4567 PHONE: (925) 283-6000

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FAX TRANSMITTAL SHEET

Date: May 3, 1999

- Where was 6W ancentred

To: Eva Chew

Alameda County Health

Phone: 510 567-6762

Fax: 510 337-9335

From: Peter McIntyre

RE: 5865 Broadway

Pages: 7 (including this cover page)

Subject:

Dear Eva,

Following is the analytical results of our investigation along with a summary table of the results and a draft of the site plan. I would like to briefly discuss this case with you before issuing the final report.

Thank-you for you time.

Peter McIntyre
Project Geologist

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #3177; Broadway	Date Sampled: 04/05/99
901 Moraga Road, Suite C		Date Received: 04/05/99
Lafayette, CA 94549	Client Contact: Peter McIntyre	Date Extracted: 04/05-04/14/99
	Client P.O:	Date Analyzed: 04/06-04/14/99

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

Lab ID	ds 5030, modifica Client ID	Matrix	TPH(g)*	MTBE	Benzene	Toluene	Ethylben- zene	Xylenes	% Recovery Surrogate
08639	ABI-I 3'	s	ND	0.16	ND	ND	ND	ND	99
08641	AEJ-2 3'	S	ND	ND	ND	ND	ND	ND	96
08643	AEI-3 5'	S	ND	ND	ND	ND	ND	ND	. 94
08644	AEI-3 10'	s	ND	ND	ND	ND	ND	ND	99
08647	AEI-4 10'	S	19.a	2.1	0.18	0.076	0.15	0.45	108
08648	AEI-4 15'	s	ND	0.13	ND	0.011	ND	0.007	102
08649	AEI-5 5'	S	ND	ND	ND	ND	ND	ND	96
08650	AEI-5 9'	S	ND	ND	ND	ND	ND	ND	94
08651	AEI-3 W	w	ND,i	80	ND	ND	ND	ND	107
	ng Limit unless ise stated; ND	w	50 ug/L	5.0	0.5	0.5	0.5	0.5	
means no	ot detected above	S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

^{*} water and vapor samples are reported in ug/I., wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

s cluttered chromatogram; sample peak coelutes with surrogate peak

[&]quot;The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than -5 vol. % sediment; j) no recognizable pattern.

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	Client P.O: Date Analyzed: 04/07-			

Lab ID	Client ID	Matrix	B (SF Bay Region) method GCFID(3550	% Recovery Surrogate
08639	AEI-1 3'	S	ND	94
08641	AEI-2 3'	S	ND	94
08643	AEI-3 5'	S	ND	100
08644	AEI-3 10'	S	ND	103
08647	AEI-4 10'	S	9.2,d,g	101
08648	AEI-4 15'	S	ND	98
08649	AEI-5 5°	S	6.8,g	103
08650	AEI-5 9'	S	ND	97
Renorting !	Limit unless otherwise	W	50 ug/L	
stated: ND m	cans not detected above reporting limit	s	1.0 mg/kg	

^{*} water and vapor samples are reported in ug/L, wipe samples in ug/wipc, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in ug/L

^{*} cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment.

McCAMPBELL ANALYTICAL INC.

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901 Moraga Road, Suite C Lafayette, CA 94549							
	Client Contact:	Peter McIntyre		Date Extra	acted: 04/14/99		
	Client P.O:			Date Anal	yzed: 04/14-04/	15/99	
EPA method 8260 modified	Oxygenated Vo	olatile Organics By	GC/	MS			
Lab ID	08647	08651					
Client ID	ABI-4 10'	ABI-3 W			Reporting Limit		
Matrix	s	w			\$	w	
Compound	ng/kg	ug/L					
Di-isopropyl Ether (DIPE)	ND<50	ND			5.0	1.0	
Ethyl tert-Butyl Ether (ETBE)	ND<50	ND			5.0	1.0	
Methyl-tert Butyl Ether (MTBE)	930	72			5.0	1.0	
tcrt-Amyl Methyl Ether (TAME)	ND<50	11.			5.0	1.0	
tert-Butanol	ND<250	ND			25	5.0	
	Surro	gate Recoveries (%)					
Dibromofluoromethane	95	96					
Comments:							

ND means not detected above the reporting limit; N/A means surrogate not applicable to this analysis

⁽h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than -5 vol. % sediment; (j) sample diluted due to high organic content

Table 1: Soil Sample Analytical Results

April 5, 1999

Sample	THE	TPH		Fuel Oxyg		EPA-8261		Benzene	Toluene	Ethylbenzene	Xylenes	PAIL!
D	as gasoline	as diesel	DIPE	ETBE		TAME			mg/kg	oxg/kg	melke	mg/kg
	mg/kg	- mg/kg	µg/kg	1/8/kg	ha/ka	ha/ka=	TRIVE					
AEI-1 3'	<1.0	<1.0	.	-	<50	-		<0.005	<0.005	<0.005	<0.005	•
AE1-2 3'	<1.0	<1.0			<50	-	•	<0.005	<0.005	<0.005	<0.005	•
AEI-35	<1.0	<1.0	_		<50		•	<0.005	<0.005	<0.005	<0.005	-
AEI-3 10'	<1.0	<1.0	-	-	<50	2	-	<0.005	<0.005	<0.005	<0.005	-
AEI-4 10'	19	9.2	<50	<50	930	<50	<250	0.18	0.076	0.15	0.45	<0.33
AEI-4 15'	<1.0	<1.0	343		130	-	_	<0.005	0.011	<0.005	9.007	
AEI-55	<1.0	6.8			<50	-	_	<0.005	<0.005	<0.005	<0.005	-
	<1.0	<1.0			<50			<0.005	<0.005	<0.005	< 0.005	
AEI-59'	71.0	۷.۱۰										
MDL	1.0	1.0	50	50	50	50	250	0.005	0.005	0.005	0.005	0.33

MDL = Method Detection Limit

ND = Not detected above the Method Detection Limit (unless otherwise noted)

ug/kg = micrograms per kilogram (ppb)

mg/kg = milligrams per kilogram (ppm)

- Not Analyzed
- - All Polynuclear Aromatic Hydrocarbons (PAH) by EPA method 8270 were not detected above the MDL

Table 2: Groundwater Sample Analytical Results April 5, 1999

Sample ID	TPH as gasoline ug/L				TAME	t Batanol	J yg/L		Ethylderfrend pyrs	Xylenes ug/E	Yocst .ypA	
AEI-3 W MDL	<50 50	<1.0 1.0	<1.0	72 1.0	11 1.0	<5.0 5.0	<0.5 0.5	<0,5 0.5	<0.5 0.5	<0.5 0.5	<1.0 1.0	

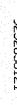
MDL = Method Detection Limit

ND = Not detected above the Method Detection Limit (unless otherwise noted)

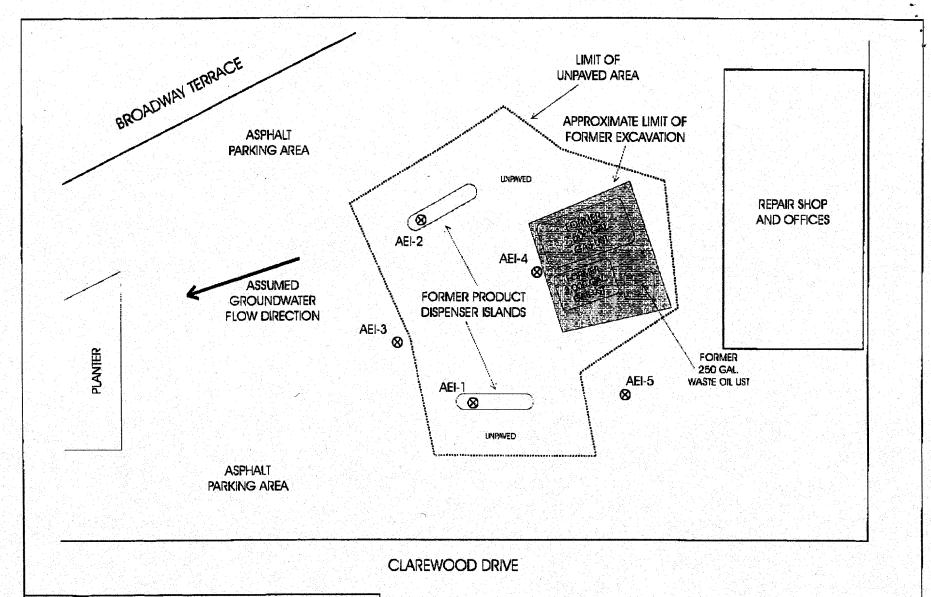
µg/L = micrograms per liter (ppb)

mg/L = milligrams per liter (ppm)

* - All Volatile Organic Compounds (VOC) analyzed by EPA method 8260 were not detected above the MDL







ALL ENVIRONMENTAL, INC. 901 MORAGA ROAD, SUITE C, LAFAYETIE, CA

SITE PLAN

5865 BROADWAY TERRACE OAKLAND, CALIFORNIA

FIGURE 2

SOIL BORING LOCATIONS AEI-1 AND IDENTIFICATION

