







**AEI CONSULTANTS** 

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(925) 283-6000

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Date:

11/2/99

Hard Copy Sent? Y ⊠ N □

To:

**Barney Chan** 

**ACHCSA** 

Phone:

510 567-6765

Fax:

510 337-9335

From:

**Peter McIntyre** 

Pages:

6, including this cover page

## Subject:

Stockpiled soil sampling results, with dimensional site plan – 807 75<sup>th</sup> Ave. Oakland

11/2/99 Spokew/P. Mcc Integre: verbally o traged reusely this soil P.M. stated the soil would not be placed @ Gw but above on fuse rock.



Phone: (925) 283-6000

Fax: (925) 283-6121

November 2, 1999

Barney Chan Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502 \$ 1650

Subject:

Stockpiled Soil Sampling

807 75<sup>th</sup> Avenue Oakland, California AEI Project No. 3456

Dear Mr. Chan:

This letter presents the results of the stockpiled soil sampling activities at the above referenced site. This stockpiled soil was removed from the underground storage tank excavation in September 1996.

A total eight soil samples were collected from the approximately 100 cubic yards of stockpiled soil. The samples were collected from at least 1.5 feet below the surface of the piles. The samples were sealed within brass liners with tephlon tape and plastic caps and placed in a cooler with ice to await transportation to the laboratory.

The sample were transported to McCampbell Analytical, Inc. (DHS Certification # 1644) of Pacheco, California and analyzed for Total Petroleum Hydrocarbons (TPH) as gasoline by EPA method 5030/8015, and for benzene, toluene, ethyl-benzene, and xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA method 5030/8020. The soil samples were also analyzed for total lead by TTLC extraction. Upon receipt of the initial analytical results the samples were re-analyzed for soluble lead by STLC extraction.

The analytical results of the sample analysis are attached along with a dimensional site plan showing the sizes of the soil piles and the sample locations.

AEI is requesting your permission to reuse this soil onsite to backfill the open excavation, once the excavation has been de-watered and further sampling and excavation has been completed. Please review the results of this sampling and do not hesitate to call me at (925) 283-6000 if you have any questions.

Sincerely.

Peter McIntyre

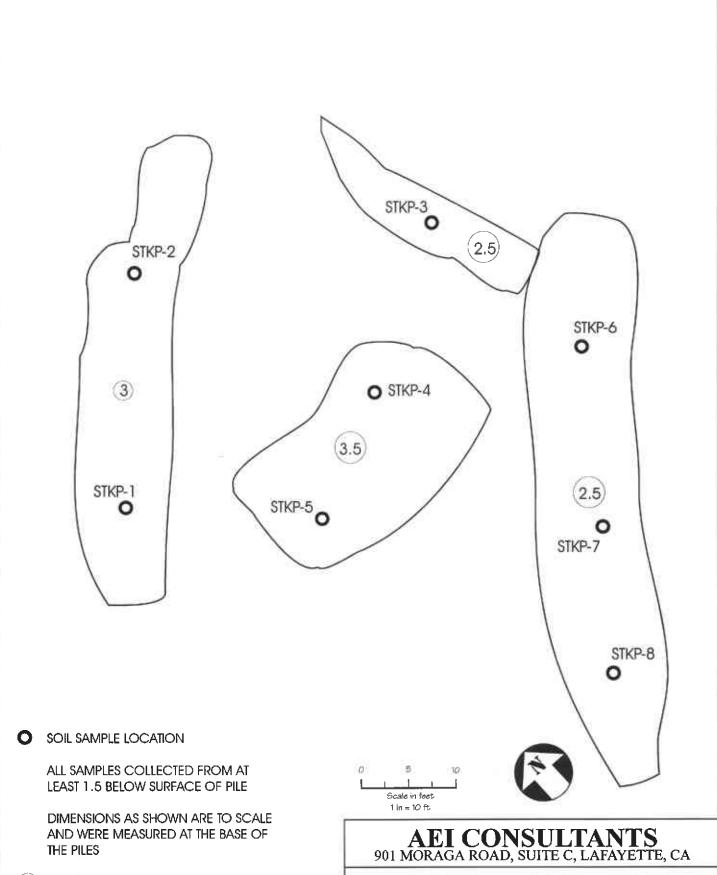
**Project Geologist** 

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Corporate Headquarters

San Francisco (800) 801-3224

Seattle (425) 401-8500 New York (212) 279-7770

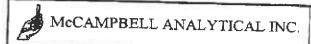


3 THE CIRCLED NUMBERS IN THE CENTER OF THE PILES REFERS TO THE AVERAGE PEAK HEIGHT IN FEET OF EACH PILE

STOCKPILED SOIL SAMPLES LOCATIONS

807 75TH AVENUE OAKLAND, CALIFORNIA

FIGURE 1



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. 901 Moraga Road, Suite C Lafayette, CA 94549			Client Project ID: #3456; Kanady			Date Sampled: 10/14/99  Date Received: 10/14/99  Date Extracted: 10/14-10/15/99			
			Client Contact: Peter McIntyne						
									Client P.O:
			Gasolin EPA metho	e Range (C6 ds 5030, modifi	-C12) Vol ed 8015, and	<b>atile Hydro</b> 8020 or 602; C	carbons as alifomia RW	Gasoline'	, with Me
Lab ID	Client ID	Matrix	TPH(g)*	MTBE	Benzene	Toluene	Ethylben- zene	Xylenes	% Recovery Surrogate
23362	STKP-1	S	1.4,a	ND	0.008	0.045	0.019	0.13	96
23363	STKP-2	9	NID	NID	AITS	0.000	100	0.000	

means not detected above the reporting limit		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	
Reporting Limit unless otherwise stated; ND		w	50 ug/L	5.0	0.5	0.5	0.5	0.5	
23369	STKP-8	S	2.6,b,j	ND	0.019	0.072	0.037	0.63	107
23368	STKP-7	S	ND	ND	ND	0.007	ND	0.019	94
23367	STKP-6	S	ND	ND	ND	0.008	ND	0.028	98
23366	STKP-5	S	19,6	ND	0.022	0.049	0.031	0.54	111
23365	STKP-4	S	1.1,a	ND	0.005	0.014	110.0	0.043	93
23364	STKP-3	S	ND	ND	ND	0.009	0.005	0.025	103
23363	STKP-2	S	ND	ND	ND	0.009	ND	0.023	98
				IND	0.006	0.043	0.019	0.13	סע

<sup>\*</sup> water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L.

cluttered chromatogram; sample peak coelutes with surrogate peak

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?; c) 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) hquid sample that contains greater than -5 vol. % sediment; j) no recognizable pattern.



## McCAMPBELL ANALYTICAL INC.

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: #3456; Kanady	Date Sampled: 10/14/99  Date Received: 10/14/99	
901 Moraga Road, Suite C	9		
Lafayette, CA 94549	Client Contact: Peter McIntyne	Date Extracted: 10/20-10/22/99	
	Client P.O:	Date Analyzed: 10/25/99	

EPA analytical methods 6010/200.7, 239.2							
Lab ID	Client ID	Matrix	Extraction °	Lead <b></b> ₹	% Recovery Surrogate		
23362	STKP-1	s	STLC	4.2	NA		
23363	STKP-2	S	STLC	1.2	NA		
23364	STKP-3	S	STLC	1.9	NA		
23365	STKP-4	S	STLC	3.3	NA		
23366	STKP-5	S	STLC	3.3	NA.		
23367	STKP-6	S	STLC	0.96	NA		
23368	STKP-7	s	STLC	0.64	NA		
23369	STKP-8	S	STLC	3.3	NA		
Reporting 1 im	nit unless otherwise	S	TTLC	3.0 mg/kg			
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W TTLC		0.005 mg/L			
		***	STLC.TCLP	$0.2~{ m mg/L}$			

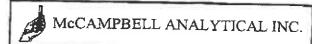
<sup>\*</sup> soll and sludge samples are reported in mg/kg, wipe samples in ug/wipe, and water samples and all STLC / SPLP / TCLP extracts in mg/L Lead is analysed using EPA method 6010 (ICP) for soils, sludges, STLC & TCLP extracts and method 239.2 (AA Furnace) for water

<sup>°</sup> EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC), STLC - CA Title 22

surrogate diluted out of range; N/A means surrogate not applicable to this analysis

<sup>\*</sup> reporting limit raised due matrix interference

i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations



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All Environmental, Inc. 901 Moraga Road, Suite C Lafayette, CA 94549		Client	Project ID: #3456; 1	Date Sampled: 10/14/99			
				Date Receive	d: 10/14/99		
		Client	Contact: Peter McIr	Date Extracte	d: 10/14/99		
		Client P.O:			Date Analyzed: 10/15/99		
EPA analytical r	nethods 6010/200.7, 2	39.2	Lead*				
Lab ID	Client ID	Matrix	Extraction °	1	Lead*	% Recovery Surrogate	
23362	STKP-1	S	TTLC	150		101	
23363	STKP-2	\$	TTLC	55		102	
23364	STKP-3	S	TTLC	200		104	
23365	STKP-4	S	TTLC	86		103	
23366	STKP-5	S	TTLC	96		103	
23367	STKP-6	S	TTLC	21		100	
23368	STKP-7	S	TTLC	17		102	
23369 STKP-8		S	TTLC	100		102	
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		S	TTLC		mg/kg		
		W TTLC		0.005 mg/L 0.2 mg/L			

<sup>\*</sup> soil and studge samples are reported in mg/kg, wipe samples in ug/wipe, and water samples and all STLC / SPLP / TCLP extracts in mg/L \*Lead is analysed using EPA method 6010 (ICP) for soils, sludges, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

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Edward Hamilton, Lab Director

<sup>&</sup>quot;EPA extraction methods 1311(FCLP), 3010/3020(water, TTLC), 3040(organic matrices, TTLC), 3050(solids, TTLC), STLC - CA Title 22

<sup>&</sup>quot; surrogate diluted out of range; N/A means surrogate not applicable to this analysis

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i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations