TTLC 39 PPM LEAD

RESPONDED TO 6/9/99 PDWAITE @ CAMBRIA-ENV.COM

CAMBRIA

To:	Amir Gholami
Company:	ACDEH
Fax:	(510) 337-9335
Phone:	(510) 567-6700
From:	Paul Waite
Phone:	(510) 420-3305, fax (510) 420-9170
Pages:	6, including this page
Date	June 7, 1999
Re:	Results, 2856 Helen Street, Oakland.

Fax

Amir,

Attached are the analytical results of the soil and groundwater sampling conducted on May 24, 1999 at 2856 Helen Street, Oakland, California 9460[redacted]. Also attached is a draft site plan showing the locations of the five Geoprobe borings.

The soil samples were labeled by boring number and depth (e.g., S-1, 5-6 ft). Borings S-1 and S-2 were near the southern former tank location, and borings N-1, N-2, and N-3 were near the northern former tank location. Groundwater samples were labeled by boring number only.

No TPHg, MTBE, or BTEX were detected in any of the soil or groundwater samples, and lead concentrations present in the samples were low.

Because a potential property transaction is pending, we would like to pursue closure for this site as quickly as possible. Any efforts to expedite this request would be greatly appreciated. If you have any questions or would like more information, please contact me at (510) 420-3305.

Thank you for your continued assistance with this project.
Sincerely,

Paul Waite

cc: W. Taylor Partch, Fax (510) 521-2970

McCAMPBELL ANALYTICAL INC.
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http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Environmental Technology	Client Project ID: #193-1521-3; Partch 2856	Date Sampled: 05/24/99
1144 65th Street, Suite C		Date Received: 05/26/99
Oakland, CA 94608	Client Contact: Paul Waite	Date Extracted: 05/26/99
	Client P.O:	Date Analyzed: 05/28-06/03/99

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

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g)+	MTBE	Benzene	Toluene	Ethylben-zene	Xylenes	% Recovery Surrogate
11939	S-1, 5-6	S	ND	ND	ND	ND	ND	ND	107
11941	S-1, 10-11	S	ND	ND	ND	ND	ND	ND	94
11946	S-1, 19-20	S	ND	ND	ND	ND	ND	ND	104
11947	S-1	W	ND,i	ND	ND	ND	ND	ND	107
11949	S-2, 5-6	S	ND	ND	ND	ND	ND	ND	101
11950	S-2, 7-8	S	ND	ND	ND	ND	ND	ND	100
11955	S-2	W	ND	ND	ND	ND	ND	ND	109
11957	N-1, 5-6	S	ND	ND	ND	ND	ND	ND	101
11959	N-1, 9-10	S	ND	ND	ND	ND	ND	ND	102
11967	N-1	W	ND,i	ND	ND	ND	ND	ND	106
11970	N-2, 7-8	S	ND	ND	ND	ND	ND	ND	101
11978	N-2	W	ND,i	ND	ND	ND	ND	ND	105
11981	N-3, 7-8	S	ND	ND	ND	ND	ND	ND	96
11988	N-3, 23-24	S	ND	ND	ND	ND	ND	ND	100
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	5.0	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

* 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

[3] 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?, 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

DHS Certification No. 1644

Edward Hamilton, Lab Director

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EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g)+	MTBE	Benzene	Toluene	Ethylben-zene	Xylenes	% Recovery Surrogate
11989	N-3	W	ND,i	ND	ND	ND	ND	ND	106
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	5.0	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

* 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

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		Date Received: 05/26/99
	Client Contact: Paul Waite	Date Extracted: 05/26/99
	Client P.O:	Date Analyzed: 06/01-06/04/99

Lead*

EPA analytical methods 6010/200.7, 239.2+

Lab ID	Client ID	Matrix	Extraction °	Lead*	% Recovery Surrogate
11939	S-1, 5-6	S	TTLC	4.5	101
11941	S-1, 10-11	S	TTLC	4.0	102
11946	S-1, 19-20	S	TTLC	19	101
11947	S-1	W	Dissolved	0.046	NA
11949	S-2, 5-6	S	TTLC	5.2	101
11950	S-2, 7-8	S	TTLC	39	100
11955	S-2	W	Dissolved	0.43	NA
11957	N-1, 5-6	S	TTLC	9.0	97
11959	N-1, 9-10	S	TTLC	5.4	101
11967	N-1	W	Dissolved	0.071	NA
11970	N-2, 7-8	S	TTLC	4.0	101
11978	N-2	W	Dissolved	0.21	NA
11981	N-3, 7-8	S	TTLC	5.6	101
11988	N-3, 23-24	S	TTLC	6.6	101
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		S	TTLC	3.0 mg/kg	
		W	TTLC	0.005 mg/L	
		—	STLC,TCLP	0.2 mg/L	

* soil 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 soil's sludges, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

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

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

& reporting limit raised due matrix interference

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

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Lead*

EPA analytical methods 6010/200.7, 239.2+

Lab ID	Client ID	Matrix	Extraction °	Lead*	% Recovery Surrogate
11989	N-3	W	Dissolved	0.12	NA
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		S	TTLC	3.0 mg/kg	
		W	TTLC	0.005 mg/L	
		---	STLC,TCLP	0.2 mg/L	

*** soil 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 samples

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

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& reporting limit raised due matrix interference

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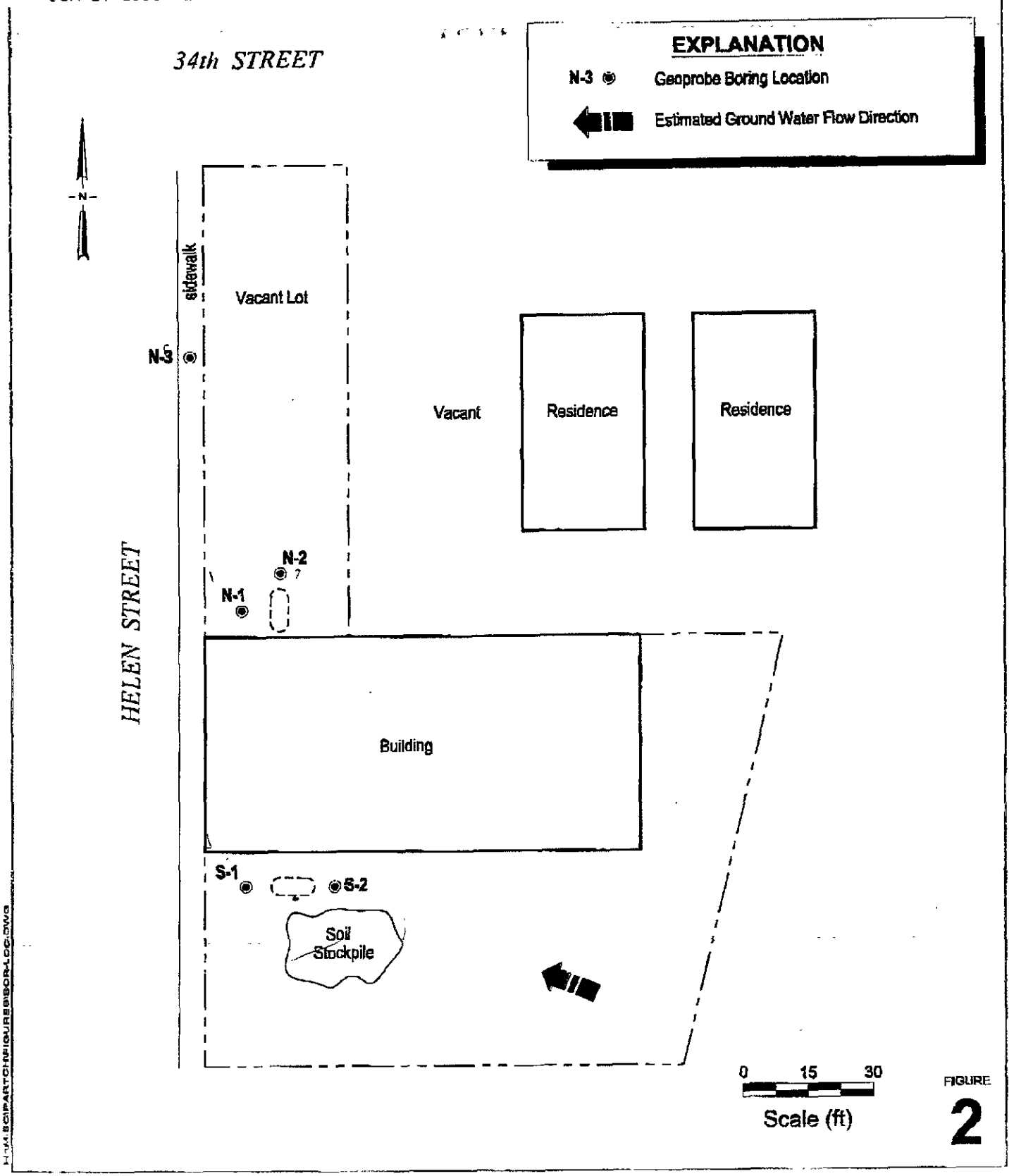

FIGURE 2

W.T. Partch
2862 Helen Street
Oakland, California

CAMBRIA

Geoprobe Boring Locations

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QC REPORT FOR HYDROCARBON ANALYSES

Date: 05/28/99-05/29/99 Matrix: WATER

Analyte	Concentration (ug/L) Sample (#12050)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.0	106.2	103.5	100.0	106.2	103.5	2.6
Benzene	0.0	9.4	9.2	10.0	94.0	92.0	2.2
Toluene	0.0	9.8	9.5	10.0	98.0	95.0	3.1
Ethyl Benzene	0.0	9.9	9.7	10.0	99.0	97.0	2.0
Xylenes	0.0	29.8	29.1	30.0	99.3	97.0	2.4
TPH(diesel)	0.0	8954	8664	7500	119	116	3.3
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

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QC REPORT FOR HYDROCARBON ANALYSES

Date: 05/28/99-05/29/99 Matrix: SOIL

Analyte	Concentration (mg/kg) Sample (#02399)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.000	2.169	2.130	2.03	107	105	1.8
Benzene	0.000	0.202	0.192	0.2	101	96	5.1
Toluene	0.000	0.208	0.198	0.2	104	99	4.9
Ethylbenzene	0.000	0.208	0.202	0.2	104	101	2.9
Xylenes	0.000	0.624	0.604	0.6	104	101	3.3
TPH(diesel)	0	269	271	300	90	90	0.7
TRPH (oil and grease)	0.0	23.0	22.6	20.8	111	109	1.8

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

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QC REPORT FOR ICP and/or AA METALS

Date: 06/01/99 Matrix: WATER

Extraction: DISSOLVED

Analyte	Concentration (mg/L)			Amount	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
Total Lead	0.00	4.48	4.57	5.00	90	91	2.1
Total Cadmium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Chromium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Nickel	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Zinc	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Organic Le	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

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QC REPORT FOR ICP and/or AA METALS

Date: 06/04/99-06/05/99 Matrix: SOIL

Extraction: TTLC

Analyte	Concentration (mg/kg, mg/L) Sample	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
Total Lead	0.0	5.17	5.15	5.0	103	103	0.4
Total Cadmium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Chromium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Nickel	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Zinc	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Organic Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100