

SAC 6593A

RGA ENVIRONMENTAL, INC



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FAX TRANSMITTAL SHEET

TO: Susan Hugg
COMPANY: ACORH
FAX NO: 510/337-9335
PHONE NO: 510/567-6780
RE: HAZARDOUS CONSTRUCTION, EMERYVILLE

FROM: ~~PAUL KING~~ Greg Scanlon
DATE: 12/2/99

TOTAL NO. OF PAGES FAXED: 5
SENDER'S JOB REFERENCE NO: HSH/9089

URGENT

FOR REVIEW

PLEASE COMMENT

PLEASE REPLY

Susan -

PLEASE FIND THE FOLLOWING ATTACHED:

- o LABORATORY ANALYTICAL REPORT FOR THE MOST RECENT MONITORING OF ATD 2, ATD 3 (3 PP.)
- o CHAIN OF CUSTODY DOCUMENTATION (1 P.)

CALL IF YOU'VE GOT QUESTIONS.

THANKS!

- GREG

12/2/99
Talked to Paul King

1) approved w/ to install 4 cells w/ ATD 2

2) notify when field work will commence at site.
Susan Zapp



McCAMPBELL ANALYTICAL INC.

 110 Second Avenue South, #D7, Pacheco, CA 94553
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RGA Environmental 4701 Doyle Street, #14 Emeryville, CA 94608	Client Project ID: #0164, Hardage Construction Corp-Emeryville	Date Sampled: 08/26/98
	Client Contact: Paul King	Date Received: 08/26/98
	Client P.O:	Date Extracted: 08/26/98
		Date Analyzed: 08/26/98

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

EPA methods 8030, modified 8015, and 8020 or 602; (California RWQCB (SF Bay Region) method CC-FID(5010))

Lab ID	Client ID	Matrix	TPH(g)*	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	% Recovery Surrogate
94159	ATD2	W	ND	---	2.1	ND	ND	ND	107
94160	ATD3	W	ND	---	ND	ND	ND	ND	107
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	0.5	
	S	1.0 mg/kg	0.05	0.005	0.005	0.015	0.015		

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, sm) 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?; 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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Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *


EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method (W-FITM(3550) or (C-CFID(3510))

Lab ID	Client ID	Matrix	TPH(d)	% Recovery Surrogate
94159	ATD2	W	1200, b/g.F ✓	97
94160	ATD3	W	ND ✓	102
Reporting Limit unless otherwise stated, ND means not detected above the reporting limit	W		50 ug/L	
	S		1.0 mg/kg	

* water and vapor samples are reported in ug/l., wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in ug/L

* clustered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak in an 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 phase is present; i) liquid sample that contains greater than ~5 vol. % sediment.

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KGA Environmental 4701 Doyle Street, #14 Emeryville, CA 94608	Client Project ID: #0164, Hardage Construction Corp-Emeryville	Date Sampled: 08/26/98
	Client Contact: Paul King	Date Received: 08/26/98
	Client P.O:	Date Extracted: 08/26/98
		Date Analyzed: 08/26/98

RCRA Metals*

EPA methods: 8010/200.7; 7470/7470/245.1/245.5 (Hg); 7060/206.2 (As); 7740/270.2 (Se); 239.2 (Pb, water matrix)

Lab ID	94159	94160	Reporting Limit		
			S	W	SILC/ TCLP
Client ID	ATD2	ATD3			
Matrix	W	W			
Extraction ^o	Dissolved	Dissolved	TTLU	TTLU	
Compound	Concentration*		mg/kg	mg/l	mg/L
Arsenic (As)	0.023	ND	2.5	0.005	0.25
Barium (Ba)	ND	ND	1.0	0.05	0.05
Cadmium (Cd)	ND	ND	0.5	0.005	0.01
Chromium (Cr)	ND	ND	0.5	0.005	0.05
Lead (Pb)	ND	ND	3.0	0.005	0.2
Mercury (Hg)	ND	ND	0.06	0.0008	0.0008
Selenium (Se)	ND	ND	2.5	0.005	0.25
Silver (Ag)	ND	ND	1.0	0.01	0.05
% Recovery Surrogate	NA	NA			
Comments					

ACL
0.05

* water samples are reported in mg/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP/ SILC/ SPLP extracts in mg/L
 ND means not detected above the reporting limit; N/A means surrogate not applicable to this analysis

^o EPA extraction methods 1311(TCLP), 3010/3020(water, TTLU), 3040(organic matrices, TTLU), 3050(solids, TTLU), SILC - CA Title 22

^o surrogate diluted out of range

^o reporting limit raised due to 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!

DHS Certification No 1644

 Edward Hamilton, Lab Director



ENVIRONMENTAL INC.

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TEL: (510) 547-7771
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CHAIN OF CUSTODY

1310E X R1-A W8

Project Number: 0164	Project Name: Horseshoe Construction Corp - Emeryville
Sampled By: (Printed and Signature): Paul H. King	

Sample Number	Date	Time	Type	Sample Location	No. of Containers	Analysis(es)			Preservatives	Remarks
						TPH-G, GRE	TPH-A	RCRA Methods		
ATD2	8/26/98		Water			X	X	X	BE	RUSH!
ATD3	8/26/98		Water			X	X	X	"	"
										94159
										94160
KEEP GOOD CONDITION		PRESERVATION APPROPRIATE		NO POLYMER FILTER						
HEAD SPACE ABSENT		CONTAINERS								
Relinquished By: (Signature): Paul H. King			Date: 8/26	Time: 8:30	Relinquished By: (Signature): Diana N. Blinn			Total No. of Samples: 2	Total No. of Containers: 10	Laboratory: McCumber Analytical
Relinquished By: (Signature):			Date:	Time:	Relinquished By: (Signature):			Laboratory Contact: Ed Hamilton		Laboratory Phone Number: 510 796-1820
Relinquished By: (Signature):			Date:	Time:	Received For Laboratory By: (Signature):			Sample Analysis Request Sheet Attached () Yes (X) No		

Comments: Please filter samples for metals analysis in lab prior to analysis. Samples not preserved in the field. preservation and