

Khatri, Paresh, Env. Health

From: Art Deicke [adeicke@advgeoenv.com]
Sent: Friday, October 31, 2008 9:20 AM
To: 'Ken Wendt'; psmith@lpfire.org; 'Bejan Farah'; Khatri, Paresh, Env. Health
Cc: rmarty@advgeoenv.com
Subject: Livermore Arco Site Located at 785 East Stanley Blvd
Attachments: Art-Livermore Arco.pdf

To all concerned ,

We've attached the analytical laboratory results for the soil sample collected on 21 October 2008 at the location of the vent pipe modification for the subject site.

All target chemicals were reported non-detect by the laboratory.

Please let me know if you have any questions.

Best regards,

Art

Arthur Deicke

Operations Manager/Project Scientist

Advanced GeoEnvironmental, Inc.

Stockton • Santa Rosa • Monterey • Brea

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From: admin [mailto:admin@advgeoenv.com]

Sent: Friday, October 31, 2008 8:10 AM

To: adeicke@advgeoenv.com

Subject: Art-Livermore Arco.pdf

This email was scanned by D&G Technology Group Secure Scan and found to contain no virus or harmful content.

Checked by AVG.

Version: 7.5.549 / Virus Database: 270.8.5/1757 - Release Date: 10/30/2008 2:35 PM

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Version: 7.5.549 / Virus Database: 270.8.5/1758 - Release Date: 10/31/2008 8:22 AM

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Version: 7.5.549 / Virus Database: 270.8.5/1758 - Release Date: 10/31/2008 8:22 AM

CAL TECH Environmental Laboratories



6814 Rosecrans Avenue. Paramount, CA 90723-3146
 Telephone: (562) 272-2700 Fax: (562) 272-2789

ANALYTICAL RESULTS*

Client Project No: CT214-0810168
Client Name: Advanced Geo Environmental, Inc.
 837 Shaw Road
 Stockton, CA 95215
Attention: Mr. Art Deicke

Phone: (209) 467-1006
Fax: (209) 467-1118

Project ID: Global ID:
Project Name: Livermore ARCO

Date Sampled: 10/21/08 @ 11:00 am
Date Received: 10/22/08 @ 09:00 am
Date Analyzed: 10/22/08 - 10/23/08

Matrix: Soil

Laboratory ID: 0810-168-1
Client Sample ID: Vent / Soil
Dilution: 1

		Method	Units:	Detection Limit
TPH - Gasoline	ND	EPA 8015M	mg/Kg	1
VOC, 8260B				
Dilution	1			
Methyl-tert-butyl-ether(MtBE)	ND	SW846 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	SW846 8260B	mg/Kg	0.10
Diisopropyl Ether (DIPE)	ND	SW846 8260B	mg/Kg	0.01
Ethyl-t-butyl ether (ETBE)	ND	SW846 8260B	mg/Kg	0.01
t-Amyl Methyl Ether (TAME)	ND	SW846 8260B	mg/Kg	0.01
1,2-Dichloroethane	ND	SW846 8260B	mg/Kg	0.005
1,2-Dibromoethane(EDB)	ND	SW846 8260B	mg/Kg	0.005
Benzene	ND	SW846 8260B	mg/Kg	0.005
Toluene	ND	SW846 8260B	mg/Kg	0.005
Ethylbenzene	ND	SW846 8260B	mg/Kg	0.005
m,p-Xylene	ND	SW846 8260B	mg/Kg	0.005
o-Xylene	ND	SW846 8260B	mg/Kg	0.005
Ethanol	ND	SW846 8260B	mg/Kg	0.1
Lead, Total	ND	SW846 6010B	mg/Kg	1

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY	Control Limit
Dibromofluoromethane	99	70-130
1,2 Dichloroethaned4	121	70-130
Toluene-d8	103	70-130
Bromofluorobenzene	123	70-130

R. Tejirian
 Greg Tejirian
 Laboratory Director

*The results are base upon the sample received.
 Cal Tech Environmental Laboratories, Inc. ELAP ID #: 2424

CAL TECH Environmental Laboratories



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QA/QC Report

Method: 8015M
 Matrix: Soil
 Date Analyzed: 10/22/08
 Date Extracted: 10/22/08

Perimeters	Conc. ug/Kg		Spike Added	Recovery %		Control	Limits	RPD
	MS	MSD		MS	MSD	Rec.	RPD	
TPH - Gasoline	1040	990	1000	104	99	70-130	20	5

Perimeters	Method Blank	Units	Det. Limit
TPH - Gasoline	ND	ug/Kg	100

MS: Matrix Spike
 MSD: Matrix Spike Duplicate

RPD: Relative Percent Difference of MS and MSD

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QA/QC Report

Method: 8260B
 Matrix: Soil
 Date Analyzed: 10/22/08
 Date Extracted: 10/22/08

Perimeters	Conc. ug/Kg		Spike Added	Recovery %		Control Rec.	Limits RPD	RPD
	MS	MSD		MS	MSD			
1,1-Dichloroethene	44	42	50	88	84	70-130	20	4
Benzene	48	45	50	96	90	70-130	20	6
Trichloroethene	48	47	50	96	94	70-130	20	2
Toluene	49	47	50	98	94	70-130	20	4
Chlorobenzene	45	43	50	90	86	70-130	20	4
m,p-Xylenes	96	89	100	96	89	70-130	20	7

MS: Matrix Spike

MSD: Matrix Spike Duplicate

RPD: Relative Percent Difference of MS and MSD

Perimeters	Method Blank	Units	Det. Limit
1,1-Dichloroethene	ND	ug/Kg	5
Benzene	ND	ug/Kg	5
Trichloroethene	ND	ug/Kg	5
Toluene	ND	ug/Kg	5
Chlorobenzene	ND	ug/Kg	5
m,p-Xylenes	ND	ug/Kg	5
MTBE	ND	ug/Kg	5
TBA	ND	ug/Kg	100
DIPE	ND	ug/Kg	10
ETBE	ND	ug/Kg	10
TAME	ND	ug/Kg	10
1,2-Dichloroethane	ND	ug/Kg	5
EDB	ND	ug/Kg	5
Ethylbenzene	ND	ug/Kg	5
o-Xylene	ND	ug/Kg	5

CAL TECH Environmental Laboratories



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QA/QC Report

Method: 6010B

Matrix: Soil

Date Analyzed: 10/23/08

Units: mg/Kg

Perimeters	Method Blank	LSC	LCSD	Spike Added	LCS % Rec.	LCSD % Rec.	Limits	RPD
Lead	0	1.03	1.05	1	103	105	70-130	2

LCS: Laboratory Control Standard

LCSD: Laboratory Control Standard Duplicate

RPD: Relative Percent Difference of LCS and LCSD



Advanced
GeoEnvironmental, Inc.

837 Shaw Road - Stockton, California - 95215 - (209) 467-1006 - Fax (209) 467-1118

CHAIN OF CUSTODY RECORD

Date 10/21/08 Page 1 of 1

10-158

Client <u>Wendy Const.</u>	Project Manager <u>Art Deske</u>	Tests Required
	Phone Number <u>(209) 467 1006</u>	
	Samplers: (Signature) <u>Paul May</u>	
Project Name <u>Livermore ARCO</u>		Invoice: AGE <input checked="" type="checkbox"/> Client <input type="checkbox"/>

Sample Number	Location Description	Date	Time	Sample Type			Solid	No. of Conts.	Notes
				Water		Air			
				Comp.	Grab.				
<u>Vent / Soil</u>		<u>10/21/08</u>	<u>1100</u>				<u>X</u>	<u>1</u>	<u>TPH-G BTEX 5-HALOXYS ETHANOL 12-PCE TOTAL LEAD</u>

Relinquished by: (Signature) <u>Paul May</u>	Received by: (Signature)	Date/Time <u>10/21/08 1600</u>
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by Mobile Laboratory for field analysis: (Signature)	Date/Time
Dispatched by: (Signature)	Date/Time	Received for Laboratory by: <u>R. Jugheri</u> Date/Time <u>10-22-08/9:00</u>

Method of Shipment: Contract

Special Instructions:

Laboratory Name: Cal Test

I hereby authorize the performance of the above indicated work.
Paul May

TOTAL P.05

OCT-31-2008 05:00 P.05/05 010