

Federal TCLP

(Toxicity Characteristic Leaching Procedure)

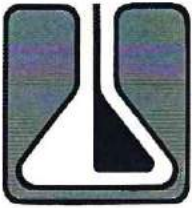
Leachate and Aquatic Bioassay

Report



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ZALCO LABORATORIES, INC.

Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

(661) 395-0539
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February 3, 2020

Suzanne Chatham
American Green Ventures (US) Inc.
180 Towerview Court
Cary, NC 27513

TEL: (919) 535-8278

FAX:

Project ID:
RE: 2001195

Dear Suzanne Chatham:

Zalco Laboratories, Inc. received 3 samples on 1/23/2020 for the analyses presented in the following report.

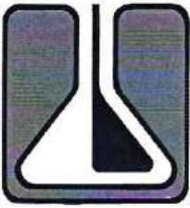
We appreciate your business and look forward to serving you in the future. Please feel free to call our office if you have any questions regarding these test results.

Sincerely,


Juan Magana
Project Manager
CC:

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Note: Samples analyzed for regulatory purposes should be put on ice immediately after sampling and received by the laboratory at temperatures between 0-6°C. Microbiological analysis requires samples to be at least 4-10°C when received at the laboratory. For additional information regarding the limitations of the method(s) referred to, please call us at 661-395-0539.



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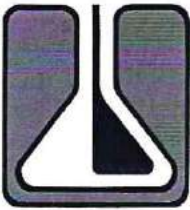
American Green Ventures (US) Inc. 180 Towerview Court Cary, NC 27513	Project: Master Project #: Attention: Suzanne Chatham	Work Order No.: 2001195 Reported: 02/03/2020 Received: 01/23/2020 16:20
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Lab Sample ID: 2001195-01	Collected By: Client
Client Sample ID: Mixture of SpillFix and Used Motor Oil	Date Collected: 1/24/2020 6:30:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
TCLP Metals by 6000/7000 Series								
Arsenic	0.029	0.020	mg/L		SW846 6010B	1/29/20	1/30/20	SS
Barium	<0.10	0.10	mg/L		SW846 6010B	1/29/20	1/30/20	SS
Cadmium	<0.010	0.010	mg/L		SW846 6010B	1/29/20	1/30/20	SS
Chromium	<0.050	0.050	mg/L		SW846 6010B	1/29/20	1/30/20	SS
Lead	<0.050	0.050	mg/L		SW846 6010B	1/29/20	1/30/20	SS
Mercury	<0.0020	0.0020	mg/L		SW846 7470A	1/28/20	1/28/20	SS
Selenium	<0.050	0.050	mg/L		SW846 6010B	1/29/20	1/30/20	SS
Silver	<0.020	0.020	mg/L		SW846 6010B	1/29/20	1/30/20	SS

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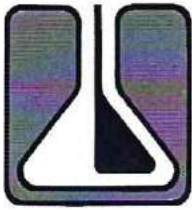
American Green Ventures (US) Inc. 180 Towerview Court Cary, NC 27513	Project: Master Project #: Attention: Suzanne Chatham	Work Order No.: 2001195 Reported: 02/03/2020 Received: 01/23/2020 16:20
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Lab Sample ID: 2001195-02	Collected By: Client
Client Sample ID: Mixture of SpillFix and Benzene	Date Collected: 1/24/2020 6:30:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
CAM, Toxicity (Aquatic Bioassay)								
		<i>22 CCR Limit</i>						
LC 50	< 500	500 or less	mg/L		Polisini-Miller	1/27/20	1/31/20	GH
TCLP Metals by 6000/7000 Series								
Arsenic	<0.020	0.020	mg/L		SW846 6010B	1/29/20	1/30/20	SS
Barium	<0.10	0.10	mg/L		SW846 6010B	1/29/20	1/30/20	SS
Cadmium	<0.010	0.010	mg/L		SW846 6010B	1/29/20	1/30/20	SS
Chromium	<0.050	0.050	mg/L		SW846 6010B	1/29/20	1/30/20	SS
Lead	<0.050	0.050	mg/L		SW846 6010B	1/29/20	1/30/20	SS
Mercury	<0.0020	0.0020	mg/L		SW846 7470A	1/28/20	1/28/20	SS
Selenium	<0.050	0.050	mg/L		SW846 6010B	1/29/20	1/30/20	SS
Silver	<0.020	0.020	mg/L		SW846 6010B	1/29/20	1/30/20	SS

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
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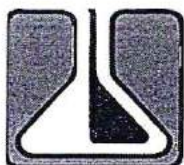
American Green Ventures (US) Inc. 180 Towerview Court Cary, NC 27513	Project: Master Project #: Attention: Suzanne Chatham	Work Order No.: 2001195 Reported: 02/03/2020 Received: 01/23/2020 16:20
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Lab Sample ID: 2001195-03	Collected By: Client
Client Sample ID: Mixture of SpillFix and Gasoline	Date Collected: 1/24/2020 6:30:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
TCLP Metals by 6000/7000 Series								
Arsenic	<0.020	0.020	mg/L		SW846 6010B	1/29/20	1/30/20	SS
Barium	<0.10	0.10	mg/L		SW846 6010B	1/29/20	1/30/20	SS
Cadmium	<0.010	0.010	mg/L		SW846 6010B	1/29/20	1/30/20	SS
Chromium	<0.050	0.050	mg/L		SW846 6010B	1/29/20	1/30/20	SS
Lead	<0.050	0.050	mg/L		SW846 6010B	1/29/20	1/30/20	SS
Mercury	<0.0020	0.0020	mg/L		SW846 7470A	1/28/20	1/28/20	SS
Selenium	<0.050	0.050	mg/L		SW846 6010B	1/29/20	1/30/20	SS
Silver	<0.020	0.020	mg/L		SW846 6010B	1/29/20	1/30/20	SS

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
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SAMPLE BIOASSAY INFORMATION

Lab #: 2001195-02

1-01 [X] 3510 Aquatic Toxicity, 96-hour LC₅₀

Test Type: Screening

Aeration: As Needed

Container: 4

Source: Thomas Fish Co.

pH adjustment required: [] Yes [X] No (see pH control worksheet)

Methanol carrier solvent required: [] Yes [X] No (see MeOH control worksheet)

No. Organisms/ Conc.: 10

Flow: Static

Acclimation Temp: 20 C

Carrier: OnTrac

Carrier: OnTrac

Dilution Water: Reconstituted Fresh Water

Tank Volume: 10 liters

Shaker: Time: 6 hrs

Species: Pimephales Promelas

Date Rec'd: January 16, 2020

Avg. Weight: .50 g

Avg. Length: 41 mm

	Hardness as CaCO ₃ , mg/l	Alkalinity as CaCO ₃ , mg/l	EC, umhos/cm @ 25c
Dilution Water	43	35	200
Initial Control	44	35	200
Final Control	45	37	200
Initial Sample	41	33	210
Final Sample	43	38	220

	Initial			24 Hr				48 Hr				72 Hr				96 Hr				
Date:	01/27/20			01/28/20				01/29/20				01/30/20				01/31/20				
Time:	14:00			14:00				14:00				14:00				14:00				
	DO	°C	pH	DO	°C	pH	# M	DO	°C	pH	# M	DO	°C	pH	# M	DO	°C	pH	# M	# Dead
Control # 1	9.0	18.8	7.9	7.5	18.1	7.3	0	6.4	19.0	7.3	0	6.2	19.3	7.3	0	7.0	19.4	7.4	0	0
400 mg/l	9.0	18.8	7.9	8.2	18.0	7.5	10	4.8	18.5	7.1	0	6.7	18.7	7.2	0	8.8	18.5	7.7	0	10
400 mg/l	9.0	18.8	7.9	8.4	18.0	7.5	10	4.9	18.4	7.1	0	6.9	18.6	7.1	0	8.9	18.4	7.7	0	10
750 mg/l	9.0	18.9	7.8	8.4	18.0	7.5	10	4.6	18.8	7.2	0	6.5	18.6	7.1	0	8.8	18.4	7.7	0	10
750 mg/l	9.0	18.8	7.8	8.4	18.0	7.5	10	4.8	18.7	7.2	0	6.8	18.6	7.1	0	8.9	18.5	7.7	0	10

Comments: Aeration done, from 1/29/20 to 1/31/20.

LC₅₀: < 500 mg/l

Analyst: GH

Date: 01/27/20

Batch ID: 2001842

