

# Leachate and Aquatic Bioassay Report

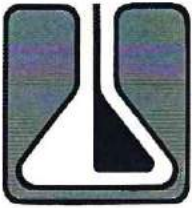
RELEASE: MAY 2020

The logo for SpillFix, featuring the word "Spill" in a bold, italicized yellow font and "Fix" in a bold, italicized white font, with a registered trademark symbol (®) to the right.

**SpillFix**®

The only natural spill cleanup solution that protects  
your workers, your bottom line and the planet.

**Fix it, for good.**



ZALCO LABORATORIES, INC.

Analytical & Consulting Services

4309 Armour Avenue  
Bakersfield, California 93308

(661) 395-0539  
FAX (661) 395-3069

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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.

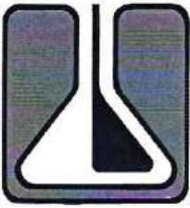
We appreciate your business and look forward to serving you in the future. Please feel free to call our office if you have any questions regarding these test results.

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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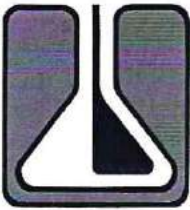
American Green Ventures (US) Inc. 180 Towerview Court Cary, NC 27513	Project: Master Project #: Attention: Suzanne Chatham	Work Order No.: <b>2001195</b> Reported: 02/03/2020 Received: 01/23/2020 16:20
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Lab Sample ID: <b>2001195-01</b>	Collected By: 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.
<b>TCLP Metals by 6000/7000 Series</b>								
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

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.: <b>2001195</b> Reported: 02/03/2020 Received: 01/23/2020 16:20
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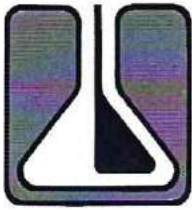
Lab Sample ID: <b>2001195-02</b>	Collected By: Client
Client Sample ID: Mixture of SpillFix and Benzene	Date Collected: 1/24/2020 6:30:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
<b>CAM, Toxicity (Aquatic Bioassay)</b>								
		<i>22 CCR Limit</i>						
LC 50	< 500	500 or less	mg/L		Polisini-Miller	1/27/20	1/31/20	GH
<b>TCLP Metals by 6000/7000 Series</b>								
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 TTL: 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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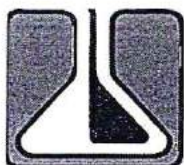
American Green Ventures (US) Inc. 180 Towerview Court Cary, NC 27513	Project: Master Project #: Attention: Suzanne Chatham	Work Order No.: <b>2001195</b> Reported: 02/03/2020 Received: 01/23/2020 16:20
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Lab Sample ID: <b>2001195-03</b>	Collected By: 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.
<b>TCLP Metals by 6000/7000 Series</b>								
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 LC<sub>50</sub>

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

Species: Fathead Minnow

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 <sub>3</sub> , mg/l	Alkalinity as CaCO <sub>3</sub> , 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

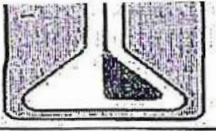
Comments: Aeration done, from 1/29/20 to 1/31/20.

LC<sub>50</sub>: < 500 mg/l

Analyst: GH

Date: 01/27/20

Batch ID: 2001842



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CHAIN OF CUSTODY, ID#

www.zalcolabs.com

Client PO:	
Project ID:	
Quote ID:	

ANALYSIS REQUESTED

2001195

COMPANY: **American Green Ventures (US) Inc**

CONTACT: **Suzanne Chatham**

PHONE: **(919) 635-8278** FAX: \_\_\_\_\_

ADDRESS: **180 Towerview Ct**

EMAIL: **accounts@am-green.com**

AMPLER (SIGNATURE): \_\_\_\_\_

LAB #	SAMPLE DESCRIPTION	DATE	TIME	Fish Bioassay	TCLP Metals																Number of Containers	Type of Containers	Sample Matrix	
1	Mixture of SpillFix and Used Motor Oil				x																			
2	Mixture of SpillFix and Benzene			x	x																			
3	Mixture of SpillFix and Gasoline				x																			

COMMENTS

Turnaround Time: \_\_\_\_\_

Routine (10 working days)

Rush By \_\_\_\_\_ Working Days

EDT \_\_\_\_\_

State Form \_\_\_\_\_

EMAIL \_\_\_\_\_

Notes:

Mix at a ratio of 2:1 40g/20g

Mix at a ratio of 2:1 40g/20g

Mix at a ratio of 2:1 40g/20g

Prepared 1/24/2020

JMK

Signature: <i>Suzanne Chatham</i>	Company: <i>American Green Ventures (US) Inc</i>	Date: <i>1-23-20</i>	Time: <i>6:12 PM</i>	Received By: <i>JMK</i>	Company: <i>Zalco Labs</i>
		Date: <i>1-23-20</i>	Time: <i>10:20 PM</i>	Received By: <i>JMK</i>	Company: <i>Zalco</i>

NOTE: Samples Discarded 30 days after results unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.

Sample Type Key: Aq-Aqueous; BS-Biosolid; DW-Drinking Water; GW-Groundwater; G-Gas; LPG-Liquid Petroleum Gas; OL-Oil; P-Petroleum; S-Solid/Soil; ST-Storm water; WW-Wastewater