



January 27, 2015

LT Environmental, Inc.

Justin Solomon

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Ecosponge

Project Number - 014211290-0344

Attached are your analytical results for KMG - Ecosponge received by Origins Laboratory, Inc. January 21, 2015. This project is associated with Origins project number X501209-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Justin Solomon  
Project Number: 014211290-0344  
Project: KMG - Ecosponge

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pad Comp	X501209-01	Soil	January 20, 2015 10:00	01/21/2015 08:23
Off N	X501209-02	Soil	January 20, 2015 10:10	01/21/2015 08:23
Off E	X501209-03	Soil	January 20, 2015 10:15	01/21/2015 08:23
Off S	X501209-04	Soil	January 20, 2015 10:20	01/21/2015 08:23
Off W	X501209-05	Soil	January 20, 2015 10:25	01/21/2015 08:23
Off Comp	X501209-06	Soil	January 20, 2015 10:30	01/21/2015 08:23

Origins Laboratory, Inc.



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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

Justin Solomon  
 Project Number: 01421290-0344  
 Project: KMG - Ecosponge

www.originslaboratory.com

X501709

page | of |

**ORIGINS**  
 LABORATORY, INC

Client: LT Environmental  
 Address: 4600 W. 60th Ave  
Arvada CO 80003  
 Telephone Number: 303-433-9788  
 Email Address: jsolomon@ltenv.com

Project Manager: J. Solomon  
 Project Name: KMG Ecosponge  
 Project Number: 01421290-0344  
 Samples Collected By: W. Baldwin

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions		
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #	Other	TPH	STP	PH/EC/STP		Total Metals	Trace Metals
Pad Comp	11/20/15	1000	3	X					X				X	X	X	X	
0# N		1010	1										X	X	X	X	
0# E		1015	1										X	X	X	X	
0# S		1020	1										X	X	X	X	
0# W		1025	1										X	X	X	X	
0# Comp		1030	2										X	X	X	X	
Relinquished By: <u>W Baldwin</u>	Date: <u>11/21/2015</u>	Time: <u>0822</u>	Received By: <u>JS</u>	Date: <u>11/21/15</u>	Time: <u>0823</u>	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard											
Relinquished By:	Date:	Time:	Received By:	Date:	Time:												

Temp Received: 3.6 Date Results Needed

Origins Laboratory, Inc.

*Jefe Pellegrini*

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Justin Solomon  
 Project Number: 014211290-0344  
 Project: KMG - Ecosponge

Origins Laboratory

F-012207-01-R1  
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X501209

Client: LTE

Client Project ID: KMG Ecosponge - 014211290-034

Checklist Completed by: goc

Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 1/21/15 @ 0829

Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 1 / 3.6 °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			<u>Blue ICE</u>
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			<u>PH</u>
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comment (above) and the case narrative.

[Signature]  
 Reviewed by (Project Manager)

01-22-15/650  
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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 4600 West 60th Avenue  
 Arvada CO 80003

Justin Solomon  
 Project Number: 014211290-0344  
 Project: KMG - Ecosponge

**Pad Comp**  
**1/20/2015 10:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X501209-01 (Soil)**

**BTEX by EPA 8260C**

Benzene	ND	0.002	mg/kg	1	5A22005	01/22/2015	01/23/2015	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

**pH in Soil by EPA 9045D**

pH	8.58		pH Units	1	5A22008	01/22/2015	01/23/2015	
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**SAR Metals by SW846 3050B/6010C**

Calcium	2000	26.5	mg/kg dry	1	1452111	01/22/2015	01/23/2015	
Magnesium	867	31.7	"	"	"	"	"	
Sodium	82.3	26.5	"	"	"	"	"	

**Sodium Adsorption Ratio**

Sodium Adsorption Ratio	0.387		none	1	1453326		01/27/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.0849		mmhos/cm	1	5A22007	01/22/2015	01/23/2015	
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**Pad Comp**  
**1/20/2015 10:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X501209-01 (Soil)**

**TCLP Metals by 1311/3010A/6010C**

Arsenic	ND	0.300	mg/L	1	1452401	01/23/2015	01/26/2015	U
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**Total Metals by SW846 3050B/6010C**

Arsenic	2.82	3.17	mg/kg dry	1	1452110	01/22/2015	01/23/2015	J
Barium	46.4	0.529	"	"	"	"	"	

**TPH-Carbon Chain by EPA Method 8015C**

Gasoline (C6-C10)	ND	50	mg/kg	1	5A22006	01/22/2015	01/23/2015	
Diesel (C10-C28)	ND	50	"	"	"	"	"	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	

Surrogate: o-Terphenyl	66.8 %	65-146			"	"	"	
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Justin Solomon  
Project Number: 014211290-0344  
Project: KMG - Ecosponge

**Off N**

**1/20/2015 10:10:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**X501209-02 (Soil)**

**Total Metals by SW846 3050B/6010C**

Arsenic	1.90	2.96	mg/kg dry	1	1452110	01/22/2015	01/23/2015	J
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Origins Laboratory, Inc.



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4600 West 60th Avenue  
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Justin Solomon  
Project Number: 014211290-0344  
Project: KMG - Ecosponge

**Off E**

**1/20/2015 10:15:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**X501209-03 (Soil)**

**Total Metals by SW846 3050B/6010C**

Arsenic	2.62	3.12	mg/kg dry	1	1452110	01/22/2015	01/23/2015	J
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Origins Laboratory, Inc.



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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Justin Solomon  
Project Number: 014211290-0344  
Project: KMG - Ecosponge

**Off S**

**1/20/2015 10:20:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**X501209-04 (Soil)**

**Total Metals by SW846 3050B/6010C**

Arsenic	1.37	2.95	mg/kg dry	1	1452110	01/22/2015	01/23/2015	J
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Origins Laboratory, Inc.



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4600 West 60th Avenue  
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Justin Solomon  
Project Number: 014211290-0344  
Project: KMG - Ecosponge

Off W

1/20/2015 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
X501209-05 (Soil)

**Total Metals by SW846 3050B/6010C**

Arsenic	1.39	3.03	mg/kg dry	1	1452110	01/22/2015	01/23/2015	J
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 Project Number: 014211290-0344  
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**Off Comp**  
**1/20/2015 10:30:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X501209-06 (Soil)**

**pH in Soil by EPA 9045D**

pH	8.25		pH Units	1	5A22008	01/22/2015	01/23/2015	
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**SAR Metals by SW846 3050B/6010C**

Calcium	856	24.7	mg/kg dry	1	1452111	01/22/2015	01/23/2015	
Magnesium	596	29.7	"	"	"	"	"	
Sodium	23.6	24.7	"	"	"	"	"	J

**Sodium Adsorption Ratio**

Sodium Adsorption Ratio	0.151		none	1	1453326		01/27/2015	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.0431		mmhos/cm	1	5A22007	01/22/2015	01/23/2015	
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**Total Metals by SW846 3050B/6010C**

Arsenic	1.60	2.97	mg/kg dry	1	1452110	01/22/2015	01/23/2015	J
Barium	35.0	0.494	"	"	"	"	"	

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**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5A22005 - EPA 5030 (soil)**

**Blank (5A22005-BLK1)**

Prepared: 01/22/2015 Analyzed: 01/22/2015

Benzene	ND	0.002	mg/kg							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		96.6	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5A22005 - EPA 5030 (soil)**

**LCS (5A22005-BS1)**

Prepared: 01/22/2015 Analyzed: 01/22/2015

Benzene	0.097	0.002	mg/kg	0.100		96.8	77.1-124			
Toluene	0.098	0.002	"	0.100		98.4	74.5-128			
Ethylbenzene	0.110	0.002	"	0.100		110	66.4-127			
m,p-Xylene	0.214	0.004	"	0.200		107	76.6-124			
o-Xylene	0.103	0.002	"	0.100		103	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		98.5	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5A22005 - EPA 5030 (soil)

Matrix Spike (5A22005-MS1)	Source: X501205-01			Prepared: 01/22/2015 Analyzed: 01/22/2015						
Benzene	0.082	0.002	mg/kg	0.100	ND	82.4	71.8-126			
Toluene	0.085	0.002	"	0.100	ND	85.5	65.1-130			
Ethylbenzene	0.090	0.002	"	0.100	ND	90.3	62.2-130			
m,p-Xylene	0.177	0.004	"	0.200	ND	88.7	46.5-137			
o-Xylene	0.087	0.002	"	0.100	ND	87.1	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.8	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5A22005 - EPA 5030 (soil)

Matrix Spike Dup (5A22005-MSD1)	Source: X501205-01			Prepared: 01/22/2015 Analyzed: 01/22/2015						
Benzene	0.086	0.002	mg/kg	0.100	ND	86.1	71.8-126	4.42	11.3	
Toluene	0.087	0.002	"	0.100	ND	86.7	65.1-130	1.46	15.4	
Ethylbenzene	0.092	0.002	"	0.100	ND	92.1	62.2-130	1.97	19.6	
m,p-Xylene	0.184	0.004	"	0.200	ND	92.0	46.5-137	3.60	19.2	
o-Xylene	0.091	0.002	"	0.100	ND	90.8	54.2-134	4.23	17.9	
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Extractable Petroleum Hydrocarbons by 8015M - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5A22006 - EPA 3580**

**Blank (5A22006-BLK1)**

Prepared: 01/22/2015 Analyzed: 01/22/2015

Gasoline (C6-C10)	ND	50	mg/kg							
Diesel (C10-C28)	ND	50	"							
Residual Range Organics (C28-C36)	ND	200	"							
Surrogate: o-Terphenyl	38.6		"	50.0		77.3	65-146			

**LCS (5A22006-BS1)**

Prepared: 01/22/2015 Analyzed: 01/22/2015

Gasoline (C6-C10)	840	50	mg/kg	1000		83.8	66.7-119			
Diesel (C10-C28)	830	50	"	1000		82.8	70.1-127			
Residual Range Organics (C28-C36)	900	200	"	1000		90.4	54.5-139			
Surrogate: o-Terphenyl	36.6		"	50.0		73.2	65-146			

**Matrix Spike (5A22006-MS1)**

Source: X501205-01

Prepared: 01/22/2015 Analyzed: 01/22/2015

Gasoline (C6-C10)	800	50	mg/kg	1000	22	78.3	56.4-132			
Diesel (C10-C28)	830	50	"	1000	27	80.5	57.4-138			
Residual Range Organics (C28-C36)	910	200	"	1000	22	88.7	47.7-129			
Surrogate: o-Terphenyl	ND		"	2.00			65-146			S-04

**Matrix Spike Dup (5A22006-MSD1)**

Source: X501205-01

Prepared: 01/22/2015 Analyzed: 01/22/2015

Gasoline (C6-C10)	910	50	mg/kg	1000	22	88.6	56.4-132	12.1	22	
Diesel (C10-C28)	960	50	"	1000	27	93.5	57.4-138	14.4	18.3	
Residual Range Organics (C28-C36)	1100	200	"	1000	22	107	47.7-129	18.0	30.1	
Surrogate: o-Terphenyl	32.0		"	50.0		64.0	65-146			S-04

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**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 5A22007 - NO PREP</b>										
<b>Blank (5A22007-BLK1)</b>					Prepared: 01/22/2015 Analyzed: 01/23/2015					
Specific Conductance (EC)	0.00250		mmhos/cm							
<b>Duplicate (5A22007-DUP1)</b>					<b>Source: X501209-01</b> Prepared: 01/22/2015 Analyzed: 01/23/2015					
Specific Conductance (EC)	0.0875		mmhos/cm		0.0849			3.02	25	
<b>Batch 5A22008 - NO PREP</b>										
<b>Duplicate (5A22008-DUP1)</b>					<b>Source: X501209-01</b> Prepared: 01/22/2015 Analyzed: 01/23/2015					
pH	8.54		pH Units		8.58			0.467	25	

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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

Justin Solomon  
 Project Number: 014211290-0344  
 Project: KMG - Ecosponge

**TCLP Metals by 1311/3010A/6010C - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1452401 - SW846 3010A</b>										
<b>MS (1203249376 S)</b>			<b>Source: X501209-01</b>		Prepared: 01/23/2015 Analyzed: 01/26/2015					
Arsenic	4.96	0.300	mg/L	5.00	<0.050	98.8	75-125			
<b>TB (1203249377-BLK)</b>					Prepared: 01/23/2015 Analyzed: 01/26/2015					
Arsenic	ND	0.300	mg/L				-			U
<b>BLANK (1203250168-BLK)</b>					Prepared: 01/23/2015 Analyzed: 01/26/2015					
Arsenic	ND	0.300	mg/L				-			U
<b>LCS (1203250169-BKS)</b>					Prepared: 01/23/2015 Analyzed: 01/26/2015					
Arsenic	4.78	0.300	mg/L	5.00		95.6	80-120			
<b>DUP (1203250170 D)</b>			<b>Source: X501209-01</b>		Prepared: 01/23/2015 Analyzed: 01/26/2015					
Arsenic	ND	0.300	mg/L		<0.050		0-20	96.8	20	U

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**Total Metals by SW846 3050B/6010C - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1452110 - SW846 3050B</b>										
<b>BLANK (1203249399-BLK)</b>					Prepared: 01/22/2015 Analyzed: 01/23/2015					
Barium	ND	0.488	mg/kg				-			U
Arsenic	ND	2.93	"				-			U
<b>LCS (1203249400-BKS)</b>					Prepared: 01/22/2015 Analyzed: 01/23/2015					
Arsenic	50.5	2.94	mg/kg	49.0		103	80-120			
Barium	49.8	0.490	"	49.0		102	80-120			
<b>DUP (1203249401 D)</b>		<b>Source: X501209-01</b>			Prepared: 01/22/2015 Analyzed: 01/23/2015					
Barium	59.9	0.518	mg/kg dry		46.4		0-20	25.3	20	
Arsenic	2.21	3.11	"		2.82		0-20	24.1	20	J
<b>MS (1203249402 S)</b>		<b>Source: X501209-01</b>			Prepared: 01/22/2015 Analyzed: 01/23/2015					
Arsenic	54.0	3.08	mg/kg dry	51.4	2.82	99.6	75-125			
Barium	109	0.514	"	51.4	46.4	123	75-125			

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**Notes and Definitions**

- U Result not detected above the detection limit
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- J Greater than the detection limit but less than the reporting limit
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported at a wet weight basis.

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