

February 26, 2015

LT Environmental, Inc.

Justin Solomon

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Grenemyer 37C-3Hz

Project Number - 014211290-328

Attached are your analytical results for KMG - Grenemyer 37C-3Hz received by Origins Laboratory, Inc. February 17, 2015. This project is associated with Origins project number X502194-01.

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



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

Justin Solomon
Project Number: 014211290-328
Project: KMG - Grenemyer 37C-3Hz

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Off S	X502194-01	Soil	February 12, 2015 14:45	02/17/2015 16:45
Off E	X502194-02	Soil	February 12, 2015 14:50	02/17/2015 16:45
Off N	X502194-03	Soil	February 12, 2015 14:55	02/17/2015 16:45
Off W	X502194-04	Soil	February 12, 2015 15:00	02/17/2015 16:45
Off Comp	X502194-05	Soil	February 12, 2015 15:05	02/17/2015 16:45
Pad Comp	X502194-06	Soil	February 12, 2015 15:10	02/17/2015 16:45

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President

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

Justin Solomon
 Project Number: 014211290-328
 Project: KMG - Grenemyer 37C-3Hz

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: XSOZ194

Client: LTE

Client Project ID: Grenemyer 37C-3Hz

Checklist Completed by: Jeff Smith

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

Date/time completed: 2/18/15

Airbill #: NA

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

Cooler Number/Temperature: 1 / 19 °C 1 / _____ °C 1 / _____ °C (Describe) _____ °C

Thermometer ID: TU53

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	X			PH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	2/18/15 X	X		Sample times do not match
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (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)			X	
Additional Comments (if any): Confirmed by email with Ryan Z. that COC is correct regarding sample times				
2/18/15 <u>JS</u>				

⁽¹⁾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 comments (above) and the case narrative.

JS
 Reviewed by (Project Manager)

02-19-15
 Date/Time Reviewed

Origins Laboratory, Inc.



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LT Environmental, Inc.
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Arvada CO 80003

Justin Solomon
Project Number: 014211290-328
Project: KMG - Grenemyer 37C-3Hz

Off S

2/12/2015 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X502194-01 (Soil)

Total Metals by SW846 3050B/6010C

Arsenic	7.19	3.26	mg/kg dry	1	1458941	02/19/2015	02/20/2015	
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Origins Laboratory, Inc.



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4600 West 60th Avenue
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Justin Solomon
Project Number: 014211290-328
Project: KMG - Grenemyer 37C-3Hz

Off E
2/12/2015 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X502194-02 (Soil)

Total Metals by SW846 3050B/6010C

Arsenic	8.45	3.24	mg/kg dry	1	1458941	02/19/2015	02/20/2015	
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Origins Laboratory, Inc.



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4600 West 60th Avenue
Arvada CO 80003

Justin Solomon
Project Number: 014211290-328
Project: KMG - Grenemyer 37C-3Hz

Off N

2/12/2015 2:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X502194-03 (Soil)

Total Metals by SW846 3050B/6010C

Arsenic	9.22	3.31	mg/kg dry	1	1458941	02/19/2015	02/20/2015	
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Origins Laboratory, Inc.



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4600 West 60th Avenue
Arvada CO 80003

Justin Solomon
Project Number: 014211290-328
Project: KMG - Grenemyer 37C-3Hz

Off W
2/12/2015 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X502194-04 (Soil)

Total Metals by SW846 3050B/6010C

Arsenic	7.95	3.25	mg/kg dry	1	1458941	02/19/2015	02/20/2015	
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 4600 West 60th Avenue
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Justin Solomon
 Project Number: 014211290-328
 Project: KMG - Grenemyer 37C-3Hz

Off Comp
 2/12/2015 3:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X502194-05 (Soil)

pH in Soil by EPA 9045D

pH	8.23		pH Units	1	5B18008	02/18/2015	02/18/2015	
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SAR Metals by SW846 3050B/6010C

Calcium	13400	25.8	mg/kg dry	1	1458942	02/19/2015	02/20/2015	
Magnesium	3890	31.0	"	"	"	"	"	
Sodium	62.7	25.8	"	"	"	"	"	

Sodium Adsorption Ratio

Sodium Adsorption Ratio	0.123		none	1	1459665		02/24/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0969		mmhos/cm	1	5B18007	02/18/2015	02/18/2015	
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Total Metals by SW846 3050B/6010C

Arsenic	8.42	3.10	mg/kg dry	1	1458941	02/19/2015	02/20/2015	
Barium	139	0.517	"	"	"	"	"	

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 Project: KMG - Grenemyer 37C-3Hz

Pad Comp
2/12/2015 3:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X502194-06 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	5B18006	02/18/2015	02/19/2015	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

<i>Surrogate: 1,2-Dichloroethane-d4</i>	103 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	116 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	94.6 %	70-130			"	"	"	

pH in Soil by EPA 9045D

pH	8.13		pH Units	1	5B18008	02/18/2015	02/18/2015	
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SAR Metals by SW846 3050B/6010C

Calcium	6620	27.1	mg/kg dry	1	1458942	02/19/2015	02/20/2015	
Magnesium	3160	32.5	"	"	"	"	"	
Sodium	348	27.1	"	"	"	"	"	

Sodium Adsorption Ratio

Sodium Adsorption Ratio	0.883		none	1	1459665		02/24/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.285		mmhos/cm	1	5B18007	02/18/2015	02/18/2015	
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 Project Number: 014211290-328
 Project: KMG - Grenemyer 37C-3Hz

Pad Comp
 2/12/2015 3:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X502194-06 (Soil)

TCLP Metals by 1311/3010A/6010C

Arsenic	ND	0.300	mg/L	1	1459121	02/20/2015	02/20/2015	U
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Total Metals by SW846 3050B/6010C

Arsenic	12.6	3.25	mg/kg dry	1	1458941	02/19/2015	02/20/2015	
Barium	909	0.542	"	"	"	"	"	

TPH-Carbon Chain by EPA Method 8015C

Gasoline (C6-C10)	ND	50	mg/kg	1	5B18005	02/18/2015	02/18/2015	
Diesel (C10-C28)	ND	50	"	"	"	"	"	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	

Surrogate: o-Terphenyl	95.7 %	65-146			"	"	"	
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 Project: KMG - Grenemyer 37C-3Hz

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 5B18006 - EPA 5030 (soil)

Blank (5B18006-BLK1)

Prepared: 02/18/2015 Analyzed: 02/19/2015

Benzene	ND	0.002	mg/kg							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>60</i>		<i>ug/kg</i>	<i>62.5</i>		<i>96.8</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>69</i>		<i>"</i>	<i>62.5</i>		<i>110</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>58</i>		<i>"</i>	<i>62.5</i>		<i>92.2</i>	<i>70-130</i>			

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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 5B18006 - EPA 5030 (soil)

LCS (5B18006-BS1)

Prepared: 02/18/2015 Analyzed: 02/19/2015

Benzene	0.098	0.002	mg/kg	0.100		97.5	77.1-124			
Toluene	0.104	0.002	"	0.100		104	74.5-128			
Ethylbenzene	0.087	0.002	"	0.100		86.8	66.4-127			
m,p-Xylene	0.179	0.004	"	0.200		89.4	76.6-124			
o-Xylene	0.086	0.002	"	0.100		85.7	76.6-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>62</i>		<i>ug/kg</i>	<i>62.5</i>		<i>98.4</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>69</i>		<i>"</i>	<i>62.5</i>		<i>111</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>63</i>		<i>"</i>	<i>62.5</i>		<i>100</i>	<i>70-130</i>			

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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 5B18006 - EPA 5030 (soil)

Matrix Spike (5B18006-MS1)	Source: X502194-06			Prepared: 02/18/2015 Analyzed: 02/19/2015						
Benzene	0.098	0.002	mg/kg	0.100	ND	97.5	71.8-126			
Toluene	0.106	0.002	"	0.100	ND	106	65.1-130			
Ethylbenzene	0.090	0.002	"	0.100	ND	90.0	62.2-130			
m,p-Xylene	0.180	0.004	"	0.200	ND	90.2	46.5-137			
o-Xylene	0.089	0.002	"	0.100	ND	88.9	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.1	70-130			
Surrogate: Toluene-d8	69		"	62.5		110	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		93.7	70-130			

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 4600 West 60th Avenue
 Arvada CO 80003

Justin Solomon
 Project Number: 014211290-328
 Project: KMG - Grenemyer 37C-3Hz

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 5B18006 - EPA 5030 (soil)

Matrix Spike Dup (5B18006-MSD1)	Source: X502194-06			Prepared: 02/18/2015 Analyzed: 02/19/2015						
Benzene	0.099	0.002	mg/kg	0.100	ND	98.6	71.8-126	1.12	11.3	
Toluene	0.109	0.002	"	0.100	ND	109	65.1-130	2.73	15.4	
Ethylbenzene	0.093	0.002	"	0.100	ND	93.3	62.2-130	3.64	19.6	
m,p-Xylene	0.184	0.004	"	0.200	ND	92.2	46.5-137	2.20	19.2	
o-Xylene	0.093	0.002	"	0.100	ND	93.1	54.2-134	4.57	17.9	
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.3	70-130			
Surrogate: Toluene-d8	71		"	62.5		114	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.6	70-130			

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 Project: KMG - Grenemyer 37C-3Hz

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 5B18005 - EPA 3580

Blank (5B18005-BLK1)

Prepared: 02/18/2015 Analyzed: 02/18/2015

Gasoline (C6-C10)	ND	50	mg/kg							
Diesel (C10-C28)	ND	50	"							
Residual Range Organics (C28-C36)	ND	200	"							

Surrogate: *o*-Terphenyl 61.2 " 50.0 122 65-146

LCS (5B18005-BS1)

Prepared: 02/18/2015 Analyzed: 02/18/2015

Gasoline (C6-C10)	920	50	mg/kg	1000		91.6	66.7-119			
Diesel (C10-C28)	990	50	"	1000		98.6	70.1-127			
Residual Range Organics (C28-C36)	1100	200	"	1000		107	54.5-139			

Surrogate: *o*-Terphenyl 53.3 " 50.0 107 65-146

Matrix Spike (5B18005-MS1)

Source: X502194-06

Prepared: 02/18/2015 Analyzed: 02/18/2015

Gasoline (C6-C10)	930	50	mg/kg	1000	25	90.7	56.4-132			
Diesel (C10-C28)	950	50	"	1000	23	92.4	57.4-138			
Residual Range Organics (C28-C36)	1100	200	"	1000	20	106	47.7-129			

Surrogate: *o*-Terphenyl 48.5 " 50.0 96.9 65-146

Matrix Spike Dup (5B18005-MSD1)

Source: X502194-06

Prepared: 02/18/2015 Analyzed: 02/18/2015

Gasoline (C6-C10)	920	50	mg/kg	1000	25	89.8	56.4-132	0.939	22	
Diesel (C10-C28)	980	50	"	1000	23	95.4	57.4-138	3.12	18.3	
Residual Range Organics (C28-C36)	1100	200	"	1000	20	106	47.7-129	0.136	30.1	

Surrogate: *o*-Terphenyl 48.5 " 50.0 97.0 65-146

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Justin Solomon
 Project Number: 014211290-328
 Project: KMG - Grenemyer 37C-3Hz

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5B18007 - NO PREP										
Blank (5B18007-BLK1)					Prepared: 02/18/2015 Analyzed: 02/18/2015					
Specific Conductance (EC)	0.00240		mmhos/cm							
Duplicate (5B18007-DUP1)					Source: X502194-05 Prepared: 02/18/2015 Analyzed: 02/18/2015					
Specific Conductance (EC)	0.0976		mmhos/cm		0.0969			0.720	25	
Batch 5B18008 - NO PREP										
Duplicate (5B18008-DUP1)					Source: X502194-05 Prepared: 02/18/2015 Analyzed: 02/18/2015					
pH	8.25		pH Units		8.23			0.243	25	

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 Project: KMG - Grenemyer 37C-3Hz

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
Batch 1459121 - SW846 3010A										
MS (1203267996 S)										
			Source: X502194-06		Prepared: 02/20/2015 Analyzed: 02/20/2015					
Arsenic	4.90	0.300	mg/L	5.00	<0.050	97.9	75-125			
TB (1203267997-BLK)										
					Prepared: 02/20/2015 Analyzed: 02/20/2015					
Arsenic	ND	0.300	mg/L				-			U
BLANK (1203268419-BLK)										
					Prepared: 02/20/2015 Analyzed: 02/20/2015					
Arsenic	ND	0.300	mg/L				-			U
LCS (1203268420-BKS)										
					Prepared: 02/20/2015 Analyzed: 02/20/2015					
Arsenic	5.16	0.300	mg/L	5.00		103	80-120			
DUP (1203268421 D)										
			Source: X502194-06		Prepared: 02/20/2015 Analyzed: 02/20/2015					
Arsenic	ND	0.300	mg/L		<0.050		0-20	NR	20	U

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 Project Number: 014211290-328
 Project: KMG - Grenemyer 37C-3Hz

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
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Batch 1458941 - SW846 3050B

BLANK (1203267991-BLK)

Prepared: 02/19/2015 Analyzed: 02/20/2015

Barium	ND	0.495	mg/kg				-			U
Arsenic	ND	2.97	"				-			U

LCS (1203267992-BKS)

Prepared: 02/19/2015 Analyzed: 02/20/2015

Arsenic	48.5	2.86	mg/kg	47.6		102	80-120			
Barium	48.4	0.476	"	47.6		102	80-120			

DUP (1203267993 D)

Source: X502194-01

Prepared: 02/19/2015 Analyzed: 02/20/2015

Arsenic	6.50	3.32	mg/kg dry		7.19		0-20	10.0	20	
Barium	105	0.553	"		119		0-20	11.8	20	

MS (1203267994 S)

Source: X502194-01

Prepared: 02/19/2015 Analyzed: 02/20/2015

Barium	169	0.548	mg/kg dry	54.8	119	92.3	75-125			
Arsenic	60.5	3.29	"	54.8	7.19	97.2	75-125			

Origins Laboratory, Inc.



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.

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

Justin Solomon
Project Number: 014211290-328
Project: KMG - Grenemyer 37C-3Hz

Notes and Definitions

- U Result not detected above the detection limit
- 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.

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President