



February 26, 2015

LT Environmental, Inc.

Justin Solomon

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Howard 37N-33Hz

Project Number - 014211290-246

Attached are your analytical results for KMG - Howard 37N-33Hz received by Origins Laboratory, Inc. February 17, 2015. This project is associated with Origins project number X502196-01.

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: 014211290-246
Project: KMG - Howard 37N-33Hz

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Off S	X502196-01	Soil	February 13, 2015 10:10	02/17/2015 16:45
Off E	X502196-02	Soil	February 13, 2015 10:15	02/17/2015 16:45
Off N	X502196-03	Soil	February 13, 2015 10:20	02/17/2015 16:45
Off W	X502196-04	Soil	February 13, 2015 10:25	02/17/2015 16:45
Off Comp	X502196-05	Soil	February 13, 2015 10:30	02/17/2015 16:45
Pad Comp	X502196-06	Soil	February 13, 2015 10:35	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: 014211290-246
 Project: KMG - Howard 37N-33Hz

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: XS0196

Client: LTE
 Client Project ID: Howard 37N-33Hz

Checklist Completed by: Jeff Smith
 Date/time completed: 2/18/15

Shipped Via: HD-Courier
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

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

Cooler Number/Temperature: 1 / 1.9 °C _____ / _____ °C _____ / _____ °C (Describe) _____ °C

Thermometer ID: 7003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>			<u>PH</u>
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
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)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽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.

[Signature]
 Reviewed by (Project Manager)

02-115
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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

Justin Solomon
Project Number: 014211290-246
Project: KMG - Howard 37N-33Hz

Off S

2/13/2015 10:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X502196-01 (Soil)

Total Metals by SW846 3050B/6010C

Arsenic	7.14	3.03	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: 014211290-246
Project: KMG - Howard 37N-33Hz

Off E

2/13/2015 10:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X502196-02 (Soil)

Total Metals by SW846 3050B/6010C

Arsenic	7.41	3.39	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: 014211290-246
Project: KMG - Howard 37N-33Hz

Off N

2/13/2015 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X502196-03 (Soil)

Total Metals by SW846 3050B/6010C

Arsenic	8.25	3.07	mg/kg dry	1	1458941	02/19/2015	02/20/2015	
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4600 West 60th Avenue
Arvada CO 80003

Justin Solomon
Project Number: 014211290-246
Project: KMG - Howard 37N-33Hz

Off W

2/13/2015 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X502196-04 (Soil)

Total Metals by SW846 3050B/6010C

Arsenic	7.16	3.14	mg/kg dry	1	1458941	02/19/2015	02/20/2015	
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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Justin Solomon
 Project Number: 014211290-246
 Project: KMG - Howard 37N-33Hz

Off Comp
 2/13/2015 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X502196-05 (Soil)

pH in Soil by EPA 9045D

pH	7.13		pH Units	1	5B18008	02/18/2015	02/18/2015
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SAR Metals by SW846 3050B/6010C

Calcium	1810	25.6	mg/kg dry	1	1458942	02/19/2015	02/20/2015
Magnesium	1830	30.8	"	"	"	"	"
Sodium	93.5	25.6	"	"	"	"	"

Sodium Adsorption Ratio

Sodium Adsorption Ratio	0.371		none	1	1459665		02/24/2015
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0703		mmhos/cm	1	5B18007	02/18/2015	02/18/2015
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Total Metals by SW846 3050B/6010C

Arsenic	6.49	3.08	mg/kg dry	1	1458941	02/19/2015	02/20/2015
Barium	79.0	0.513	"	"	"	"	"

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 Project Number: 014211290-246
 Project: KMG - Howard 37N-33Hz

Pad Comp
2/13/2015 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X502196-06 (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>	106 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	107 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	90.5 %	70-130			"	"	"	

pH in Soil by EPA 9045D

pH	8.55		pH Units	1	5B18008	02/18/2015	02/18/2015	
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SAR Metals by SW846 3050B/6010C

Calcium	30700	26.2	mg/kg dry	1	1458942	02/19/2015	02/20/2015	
Magnesium	5090	31.4	"	"	"	"	"	
Sodium	790	26.2	"	"	"	"	"	

Sodium Adsorption Ratio

Sodium Adsorption Ratio	1.10		none	1	1459665		02/24/2015	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.428		mmhos/cm	1	5B18007	02/18/2015	02/18/2015	
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2/13/2015 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X502196-06 (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	8.41	3.14	mg/kg dry	1	1458941	02/19/2015	02/20/2015	
Barium	989	0.523	"	"	"	"	"	

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)	120	50	"	"	"	"	"	
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"	

<i>Surrogate: o-Terphenyl</i>	84.7 %	65-146			"	"	"	
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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)

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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 Arvada CO 80003

Justin Solomon
 Project Number: 014211290-246
 Project: KMG - Howard 37N-33Hz

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 Number: 014211290-246
 Project: KMG - Howard 37N-33Hz

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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 Project Number: 014211290-246
 Project: KMG - Howard 37N-33Hz

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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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: 367361006			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: 367361006			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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Justin Solomon
 Project Number: 014211290-246
 Project: KMG - Howard 37N-33Hz

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

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

DUP (1203267993 D)

Source: 367361001

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

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

MS (1203267994 S)

Source: 367361001

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

Arsenic	60.5	3.29	mg/kg dry	54.8	7.19	97.2	75-125			
Barium	169	0.548	"	54.8	119	92.3	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: 014211290-246
Project: KMG - Howard 37N-33Hz

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