



February 19, 2016

LT Environmental, Inc.

Justin Solomon

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Deepe 14N-27HZ

Project Number - 014211290-

Attached are your analytical results for KMG - Deepe 14N-27HZ received by Origins Laboratory, Inc. February 12, 2016. This project is associated with Origins project number X602148-01.

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-
Project: KMG - Deepe 14N-27HZ

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Off S	X602148-01	Soil	February 10, 2016 15:25	02/12/2016 16:05
Off E	X602148-02	Soil	February 10, 2016 15:35	02/12/2016 16:05
Off N	X602148-03	Soil	February 10, 2016 15:45	02/12/2016 16:05
Off W	X602148-04	Soil	February 10, 2016 15:55	02/12/2016 16:05
Off Comp	X602148-05	Soil	February 10, 2016 16:05	02/12/2016 16:05
Pad Comp	X602148-06	Soil	February 10, 2016 16:15	02/12/2016 16:05

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

Justin Solomon
Project Number: 014211290-
Project: KMG - Deepe 14N-27HZ

ORIGINS

X602148

page 1 of 1

Client:	LT Environmental Inc.	Project Manager:	Justin Solomon
Address:	4600 W. 60th Ave Arvada CO 80002	Project Name:	KMG - DEEPE 14N-27HZ
Telephone Number:	303.433.7988	Project Number:	014211290-
Email Address:	jsolomon@ltenv.com	Samples Collected By:	RZ

HT: Mike Dunkel 208 5045-DRL
208 5048-DRL

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix				Analysis					Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Sampling Container	Other	TPH Diox/eno 2015	Gr, EC, SAR	Total Arsenic	Total Barium	TPCP Arsenic		
Off S	2/10/14	1525	1	X					X				X			1		
Off E		1535	1	X					X				X			2		
Off N		1545	1	X					X				X			3		
Off W		1555	1	X					X				X			4		
Off Comp		1605	2	X					X				X	X		5		
Pad Comp	✓	1615	3	X					X				X	X	X	6		
																7		
																8		
																9		
																10		

Subsampled By: <i>[Signature]</i>	Date: 2/12/14	Time: 1600	Received By: <i>[Signature]</i>	Date: 2/12/14	Time: 1500	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>
			Received By: <i>[Signature]</i>	Date: 2/12/14	Time: 1605	

Date Results Needed

Origins Laboratory, Inc.

Jefe Pellegrini

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Arvada CO 80003

Justin Solomon
Project Number: 014211290-
Project: KMG - Deepe 14N-27HZ

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X1602148

Client: LTE

Client Project ID: KMG - Deepe 14N-27HZ

Checklist Completed by: Jef Smith

Shipped Via: H/D
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2/15/16

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 0.0 °C 1 / _____ °C 1 / _____ °C (Describe)

Thermometer ID: TD03

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>2/15/16</u>		<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 HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +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.

Reviewed by (Project Manager) Jef Smith

2/15/16
Date/Time Reviewed

Origins Laboratory, Inc.

Jef Pellegrini

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Arvada CO 80003

Justin Solomon

Project Number: 014211290-

Project: KMG - Deepe 14N-27HZ

Off S

2/10/2016 3:25:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

GEL Laboratories, LLC

X602148-01 (Soil)

Metals by SW846 3050B/6020A

Arsenic	0.938	0.960	mg/kg dry	2	1545431	02/16/2016	02/17/2016	J
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Origins Laboratory, Inc.



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4600 West 60th Avenue
Arvada CO 80003

Justin Solomon
Project Number: 014211290-
Project: KMG - Deepe 14N-27HZ

Off E
2/10/2016 3:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X602148-02 (Soil)

Metals by SW846 3050B/6020A

Arsenic	0.941	0.918	mg/kg dry	2	1545431	02/16/2016	02/17/2016
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Origins Laboratory, Inc.



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4600 West 60th Avenue
Arvada CO 80003

Justin Solomon
Project Number: 014211290-
Project: KMG - Deepe 14N-27HZ

Off N

2/10/2016 3:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X602148-03 (Soil)

Metals by SW846 3050B/6020A

Arsenic	0.932	1.04	mg/kg dry	2	1545431	02/16/2016	02/17/2016	J
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4600 West 60th Avenue
Arvada CO 80003

Justin Solomon
Project Number: 014211290-
Project: KMG - Deepe 14N-27HZ

Off W

2/10/2016 3:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X602148-04 (Soil)

Metals by SW846 3050B/6020A

Arsenic	1.10	1.04	mg/kg dry	2	1545431	02/16/2016	02/17/2016
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4600 West 60th Avenue

Arvada CO 80003

Justin Solomon

Project Number: 014211290-

Project: KMG - Deepe 14N-27HZ

Off Comp

2/10/2016 4:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.

X602148-05 (Soil)

Metals by 6010

Calcium	1.49		me/L	1	'[none]'	02/16/2016	02/18/2016
Magnesium	0.53		"	"	"	"	"
Sodium	0.71		"	"	"	"	"

Metals by SW846 3050B/6010C

Barium	22.7	0.482	mg/kg dry	1	1545423	"	02/18/2016
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Metals by SW846 3050B/6020A

Arsenic	1.04	1.03	mg/kg dry	2	1545431	"	02/17/2016
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pH in Soil by EPA 9045D

pH	7.45		pH Units	1	B6B1507	02/15/2016	02/16/2016
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SAR by 20B Saturated Paste

SAR	0.71			1	'[none]'	02/16/2016	02/18/2016
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0107		mmhos/cm	1	B6B1508	02/15/2016	02/16/2016
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Pad Comp
2/10/2016 4:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X602148-06 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	B6B1510	02/15/2016	02/16/2016	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	79.2 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6B1701	02/16/2016	02/16/2016	Ua
Benzene	ND	0.002	"	"	"	"	"	Ua
Toluene	ND	0.002	"	"	"	"	"	Ua
Ethylbenzene	ND	0.002	"	"	"	"	"	Ua
Xylenes, total	ND	0.002	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	85.8 %	70-130			"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.5 %	70-130			"	"	"	

Metals by 6010

Calcium	0.45		me/L	1	'[none]'	02/16/2016	02/18/2016	
Magnesium	0.19		"	"	"	"	"	
Sodium	0.31		"	"	"	"	"	

Metals by SW846 3050B/6010C

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Pad Comp
2/10/2016 4:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X602148-06 (Soil)

Metals by SW846 3050B/6010C

Barium	45.6	0.529	mg/kg dry	1	1545423	02/16/2016	02/18/2016	
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Metals by SW846 3050B/6020A

Arsenic	1.40	1.03	mg/kg dry	2	1545431	"	02/17/2016	
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pH in Soil by EPA 9045D

pH	8.09		pH Units	1	B6B1507	02/15/2016	02/16/2016	
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SAR by 20B Saturated Paste

SAR	0.55			1	'[none]'	02/16/2016	02/18/2016	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0571		mmhos/cm	1	B6B1508	02/15/2016	02/16/2016	
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TCLP Metals by 1311/3010A/6010C

Arsenic	ND	0.300	mg/L	1	1545652	02/17/2016	02/17/2016	U
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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
Batch B6B1701 - EPA 5030 (soil)										
Blank (B6B1701-BLK1)					Prepared: 02/17/2016 Analyzed: 02/17/2016					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							Ua
Benzene	ND	0.002	"							Ua
Toluene	ND	0.002	"							Ua
Ethylbenzene	ND	0.002	"							Ua
Xylenes, total	ND	0.002	"							Ua
Surrogate: 1,2-Dichloroethane-d4	53.8		ug/kg	62.5		86.0	70-130			
Surrogate: Toluene-d8	61.7		"	62.5		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	57.6		"	62.5		92.2	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
Batch B6B1701 - EPA 5030 (soil)										
LCS (B6B1701-BS1)					Prepared: 02/17/2016 Analyzed: 02/17/2016					
Benzene	0.094	0.002	mg/kg	0.100		93.8	77.1-124			
Toluene	0.088	0.002	"	0.100		88.4	74.5-128			
Ethylbenzene	0.091	0.002	"	0.100		91.0	66.4-127			
m,p-Xylene	0.187	0.004	"	0.200		93.6	76.6-124			
o-Xylene	0.094	0.002	"	0.100		93.7	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	54.5		ug/kg	62.5		87.2	70-130			
Surrogate: Toluene-d8	60.2		"	62.5		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	63.3		"	62.5		101	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 B6B1701 - EPA 5030 (soil)

Matrix Spike (B6B1701-MS1)		Source: X602169-01			Prepared: 02/17/2016 Analyzed: 02/17/2016					
Benzene	0.092	0.002	mg/kg	0.100	ND	91.6	71.8-126			
Toluene	0.088	0.002	"	0.100	ND	88.0	65.1-130			
Ethylbenzene	0.084	0.002	"	0.100	ND	84.1	62.2-130			
m,p-Xylene	0.169	0.004	"	0.200	ND	84.6	46.5-137			
o-Xylene	0.084	0.002	"	0.100	0.0003	83.8	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	51.9		ug/kg	62.5		83.0	70-130			
Surrogate: Toluene-d8	58.6		"	62.5		93.7	70-130			
Surrogate: 4-Bromofluorobenzene	63.8		"	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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Batch B6B1701 - EPA 5030 (soil)

Matrix Spike Dup (B6B1701-MSD1)		Source: X602169-01			Prepared: 02/17/2016 Analyzed: 02/17/2016					
Benzene	0.088	0.002	mg/kg	0.100	ND	88.1	71.8-126	3.90	11.3	
Toluene	0.084	0.002	"	0.100	ND	84.0	65.1-130	4.65	15.4	
Ethylbenzene	0.082	0.002	"	0.100	ND	82.3	62.2-130	2.09	19.6	
m,p-Xylene	0.167	0.004	"	0.200	ND	83.6	46.5-137	1.27	19.2	
o-Xylene	0.082	0.002	"	0.100	0.0003	82.1	54.2-134	2.07	17.9	
Surrogate: 1,2-Dichloroethane-d4	52.7		ug/kg	62.5		84.4	70-130			
Surrogate: Toluene-d8	58.1		"	62.5		92.9	70-130			
Surrogate: 4-Bromofluorobenzene	61.9		"	62.5		99.0	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 8015C - 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 B6B1510 - EPA 3580

Blank (B6B1510-BLK1)

Prepared: 02/15/2016 Analyzed: 02/16/2016

Diesel (C10-C28)	ND	50	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	200	"							Ua
Surrogate: o-Terphenyl	49		"	50.0		97.4	59-131			

LCS (B6B1510-BS1)

Prepared: 02/15/2016 Analyzed: 02/16/2016

Diesel (C10-C28)	1100	50	mg/kg	1000		113	64-121			
Residual Range Organics (C28-C40)	1100	200	"	1000		110	58-124			
Surrogate: o-Terphenyl	50		"	50.0		101	59-131			

Matrix Spike (B6B1510-MS1)

Source: X602145-06

Prepared: 02/15/2016 Analyzed: 02/16/2016

Diesel (C10-C28)	880	50	mg/kg	1000	ND	87.9	53-125			
Residual Range Organics (C28-C40)	860	200	"	1000	12	84.4	47-133			
Surrogate: o-Terphenyl	41		"	50.0		82.1	59-131			

Matrix Spike Dup (B6B1510-MSD1)

Source: X602145-06

Prepared: 02/15/2016 Analyzed: 02/16/2016

Diesel (C10-C28)	920	50	mg/kg	1000	ND	91.8	53-125	4.35	20	
Residual Range Organics (C28-C40)	880	200	"	1000	12	86.7	47-133	2.64	20	
Surrogate: o-Terphenyl	45		"	50.0		89.7	59-131			

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Project Number: 014211290-
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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
Batch B6B1507 - NO PREP										
Duplicate (B6B1507-DUP1)		Source: X602145-05			Prepared: 02/15/2016 Analyzed: 02/16/2016					
pH	8.21		pH Units		8.26			0.607	25	
Batch B6B1508 - NO PREP										
Blank (B6B1508-BLK1)		Prepared: 02/15/2016 Analyzed: 02/16/2016								
Specific Conductance (EC)	0.00340		mmhos/cm							
Duplicate (B6B1508-DUP1)		Source: X602145-05			Prepared: 02/15/2016 Analyzed: 02/16/2016					
Specific Conductance (EC)	0.0471		mmhos/cm		0.0439			7.03	25	

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Project Number: 014211290-
Project: KMG - Deepe 14N-27HZ

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
Batch 1545423 - SW846 3050B										
BLANK (1203490720-BLK)					Prepared: 02/16/2016 Analyzed: 02/18/2016					
Barium	ND	0.487	mg/kg				-			U
LCS (1203490721-BKS)					Prepared: 02/16/2016 Analyzed: 02/18/2016					
Barium	46.3	0.477	mg/kg	47.7		97	80-120			
DUP (1203490722 D)					Prepared: 02/16/2016 Analyzed: 02/18/2016					
		Source: 391414005								
Barium	29.1	0.546	mg/kg dry		24.8		0-20	15.6	20	
MS (1203490723 S)					Prepared: 02/16/2016 Analyzed: 02/18/2016					
		Source: 391414005								
Barium	79.4	0.540	mg/kg dry	54.0	24.8	101	75-125			

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

Justin Solomon
Project Number: 014211290-
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Metals by SW846 3050B/6020A - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1545431 - SW846 3050B										
BLANK (1203490734-BLK)					Prepared: 02/16/2016 Analyzed: 02/17/2016					
Arsenic	ND	0.947	mg/kg				-			U
LCS (1203490735-BKS)					Prepared: 02/16/2016 Analyzed: 02/17/2016					
Arsenic	4.27	0.967	mg/kg	4.84		88.3	80-120			
DUP (1203490736 D)					Prepared: 02/16/2016 Analyzed: 02/17/2016					
		Source: 391414001								
Arsenic	0.960	1.10	mg/kg dry		1.02		0-20	5.86	20	J
MS (1203490737 S)					Prepared: 02/16/2016 Analyzed: 02/17/2016					
		Source: 391414001								
Arsenic	5.67	1.10	mg/kg dry	5.49	1.02	84.7	75-125			

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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 1545652 - SW846 3010A										
MS (1203490739 S)		Source: 391414006			Prepared: 02/17/2016 Analyzed: 02/17/2016					
Arsenic	4.55	0.300	mg/L	5.00	<0.050	90.4	75-125			
TB (1203490740-BLK)					Prepared: 02/17/2016 Analyzed: 02/17/2016					
Arsenic	ND	0.300	mg/L				-			U
BLANK (1203491379-BLK)					Prepared: 02/17/2016 Analyzed: 02/17/2016					
Arsenic	0.0552	0.300	mg/L				-			J
LCS (1203491380-BKS)					Prepared: 02/17/2016 Analyzed: 02/17/2016					
Arsenic	4.62	0.300	mg/L	5.00		92.4	80-120			
DUP (1203491381 D)		Source: 391414006			Prepared: 02/17/2016 Analyzed: 02/17/2016					
Arsenic	ND	0.300	mg/L		<0.050		0-20	NR	20	U

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Project: KMG - Deepe 14N-27HZ

Notes and Definitions

Ua Sample is Non-Detect.

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.

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