



December 16, 2015

LT Environmental, Inc.

Justin Solomon

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - NRC 4N-4Hz

Project Number - 014211290-353

Attached are your analytical results for KMG - NRC 4N-4Hz received by Origins Laboratory, Inc. December 08, 2015. This project is associated with Origins project number X512138-01.

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: 014211290-353

Project: KMG - NRC 4N-4Hz

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pad Comp (2)	X512138-01	Soil	December 8, 2015 11:20	12/08/2015 17:10

Origins Laboratory, Inc.



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Project Number: 014211290-353
Project: KMG - NRC 4N-4Hz

ORIGINS

LABORATORY, INC

X512138

www.originslaboratory.com

page 1 of 1

Client: LTE
Address: 4600 W 60th Ave
Arvada Co 80003
Telephone Number: 303-433-9788
Email Address: Justin.Solomon@lte.com
HLL King group

Project Manager: Justin Solomon
Project Name: NRL 4N-4Hz
Project Number: 014211280 - 353
Samples Collected By: RZ
ATT: MIKE DINKEL
AHE W04 2085786.DEL
2085785.DEL

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis			Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	As Summa Container #	Other	TECH	Grp/Box/Case		Other
Pad Comp (2)	12/8/15	1120	2	X					X				X	Do not Run BGC	1
															2
															3
															4
															5
															6
															7
															8
															9
															10

Relinquished By: <u>[Signature]</u>	Date: 12/8/15	Time: 16:25	Received By: <u>[Signature]</u>	Date: 12/8/15	Time: 4:25	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/>
	Date: 12/8/15	Time: 17:10	Received By: <u>[Signature]</u>	Date: 12/8/15	Time: 17:10	48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/>
Standard <input checked="" type="checkbox"/>						

Temp Received: 4.9

Date Results Needed

Origins Laboratory, Inc.

Jeff Pellgrini

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Arvada CO 80003

Justin Solomon
Project Number: 014211290-353
Project: KMG - NRC 4N-4Hz

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4512138

Client: LT Environmental

Client Project ID: NRC 4N-4Hz

Checklist Completed by: J. Henderson

Shipped Via: H/D

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 12/9/15 1304

Airbill #: 132

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

Cooler Number/Temperature: 1 / 4.9 °C 1 °C 1 °C 1 °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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<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 type="checkbox"/>	<input type="checkbox"/>	<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: [Signature] (Project Manager)

Date/Time Reviewed: 12/14/15

Origins Laboratory, Inc.

[Signature]

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Arvada CO 80003

Justin Solomon
Project Number: 014211290-353
Project: KMG - NRC 4N-4Hz

Pad Comp (2)

12/8/2015 11:20:00AM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.
X512138-01 (Soil)

TPH-Carbon Chain by EPA Method 8015C

Gasoline (C6-C10)	ND	50	mg/kg	1	B5L1003	12/10/2015	12/11/2015
Diesel (C10-C28)	ND	50	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"

Surrogate: o-Terphenyl	88.0 %	65-146			"	"	"
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Origins Laboratory, Inc.



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Justin Solomon
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Project: KMG - NRC 4N-4Hz

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
Batch B5L1003 - EPA 3580										
Blank (B5L1003-BLK1)					Prepared: 12/10/2015 Analyzed: 12/10/2015					
Gasoline (C6-C10)	ND	50	mg/kg							
Diesel (C10-C28)	ND	50	"							
Residual Range Organics (C28-C36)	ND	200	"							
Surrogate: o-Terphenyl	48.9		"	50.0		97.9	65-146			
LCS (B5L1003-BS1)					Prepared: 12/10/2015 Analyzed: 12/10/2015					
Gasoline (C6-C10)	1000	50	mg/kg				66.7-119			
Diesel (C10-C28)	840	50	"	1000		83.9	70.1-127			
Residual Range Organics (C28-C36)	1100	200	"	1000		106	54.5-139			
Surrogate: o-Terphenyl	54.5		"	50.0		109	65-146			
Matrix Spike (B5L1003-MS1)					Source: X512135-01		Prepared: 12/10/2015 Analyzed: 12/10/2015			
Gasoline (C6-C10)	880	50	mg/kg		22		56.4-132			
Diesel (C10-C28)	770	50	"	1000	ND	76.6	57.4-138			
Residual Range Organics (C28-C36)	850	200	"	1000	16	83.9	47.7-129			
Surrogate: o-Terphenyl	44.2		"	50.0		88.4	65-146			
Matrix Spike Dup (B5L1003-MSD1)					Source: X512135-01		Prepared: 12/10/2015 Analyzed: 12/10/2015			
Gasoline (C6-C10)	860	50	mg/kg		22		56.4-132	1.81	22	
Diesel (C10-C28)	750	50	"	1000	ND	75.3	57.4-138	1.70	18.3	
Residual Range Organics (C28-C36)	840	200	"	1000	16	82.9	47.7-129	1.15	30.1	
Surrogate: o-Terphenyl	42.5		"	50.0		85.1	65-146			

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Notes and Definitions

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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Jen Pellegrini For Noelle Doyle Mathis, President