

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
ARISTOCRAT 41-9 1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

COGCC Allowable Concentration (Soil) -->				Organics (mg/kg)									
Sample ID:	Sample Date:	Sample Depth (feet bgs):	Photoionization Detector Reading (ppm):	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C28) High Fraction	TPH-RRO (C28-C40) High Fraction	0.17	85	100	175	23	4	(6-9)
SB01@6'	04/29/2019	6'	436.5	590	10300	4200	<0.0500	<0.0500	1.54	31.0	NA	0.0830	7.56
SB02@6'	04/29/2019	6'	360.3	568	8780	3640	<0.0500	<0.0500	0.910	14.1	NA	0.104	7.73

Notes: mg/kg - milligrams per kilogram
COGCC - Colorado Oil and Gas Conservation Commission
bgs - below ground surface
ppm - parts per million
TPH - total petroleum hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
RRO - residual range organics
mmhos/cm - millimhos per centimeter
NA - not analyzed
Bold indicates result exceeds allowable level





May 02, 2019

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Aristocrat 41-9

Project Number - 014219041

Attached are your analytical results for KMG - Aristocrat 41-9 received by Origins Laboratory, Inc. April 29, 2019. This project is associated with Origins project number Y904485-01.

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

Brian Sulzberger
Project Number: 014219041
Project: KMG - Aristocrat 41-9

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB01@6'	Y904485-01	Soil	April 29, 2019 9:47	04/29/2019 15:10
SB02@6'	Y904485-02	Soil	April 29, 2019 9:59	04/29/2019 15:10

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014219041
Project: KMG - Aristocrat 41-9

ORIGINS
LABORATORY, INC

www.originslaboratory.com

190415835

page 1 of 1

Client: LT Environmental, Inc.
Address: 4600 West 60th Ave
Arvada, CO 80003
Telephone Number: 303.433.9788
Email Address: b.sulzberger@ltinc.com

Project Manager: Brian Sulzberger
Project Name: Aristocrat 41-9
Project Number: 014219041
Samples Collected By: Don't Thru

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other	GP (KNO ₃)	TPH	PH	
580166	4-28-19	0947	2												1
580166	4-28-19	0959	2												2
															3
															4
															5
															6
															7
															8
															9
															10
Relinquished By: [Signature]	Date: 4-28-19	Time: 1410		Received By: [Signature]	Date: 4-29-19	Time: 1410		Received By: [Signature]	Date: 4-29-19	Time: 1510		Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>			
Relinquished By: [Signature]	Date: 4-29-19	Time: 1510		Received By: [Signature]	Date: 4-29-19	Time: 1510		Received By: [Signature]	Date: 4-29-19	Time: 1510					

Temp Received: 6.3 Date Results Needed

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
Project Number: 014219041
Project: KMG - Aristocrat 41-9

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y904485

Client: LTE

Client Project ID: Aristocrat 41-9

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 4/29/2019

Airbill #: N/A

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

(Describe)

Cooler Number/Temperature: 1 / 6.3 °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"/>		<u>Same Day</u>
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"/>		
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) JP

Date/Time Reviewed 4/30/19

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
Project Number: 014219041
Project: KMG - Aristocrat 41-9

SB01@6'

4/29/2019 9:47:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904485-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9D3007	JTD	04/30/2019	05/01/2019	U
Toluene	ND	0.0500	"	"	"	JTD	"	"	U
Ethylbenzene	1.54	0.500	"	250	"	JTD	"	04/30/2019	
Xylenes, total	31.0	0.500	"	"	"	JTD	"	"	
Gasoline Range Hydrocarbons	590	50.0	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130			"	"	"
Surrogate: Toluene-d8	96.5 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	113 %	70-130			"	"	"

DRO/ORO by EPA 8015D

Diesel (C10-C28)	10300	250	mg/kg	10	B9D3008	JTD	04/30/2019	05/01/2019
Residual Range Organics (C28-C40)	4200	1000	"	"	"	JTD	"	"

Surrogate: o-Terphenyl	88.2 %	50-150			"	"	"
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pH in Soil by EPA 9045D

pH	7.56		pH Units	1	B9D2909	OLAB	04/29/2019	04/29/2019
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0830	0.00500	mmhos/cm	"	B9D3006	OLAB	04/30/2019	04/30/2019
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014219041
Project: KMG - Aristocrat 41-9

SB02@6'

4/29/2019 9:59:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y904485-02 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.0500	mg/kg	25	B9D3007	JTD	04/30/2019	05/01/2019	U
Toluene	ND	0.0500	"	"	"	JTD	"	"	U
Ethylbenzene	0.910	0.500	"	250	"	JTD	"	04/30/2019	
Xylenes, total	14.1	0.500	"	"	"	JTD	"	"	
Gasoline Range Hydrocarbons	568	50.0	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

95.6 %	70-130	"	"	"
100 %	70-130	"	"	"
101 %	70-130	"	"	"

DRO/ORO by EPA 8015D

Diesel (C10-C28)	8780	250	mg/kg	10	B9D3008	JTD	04/30/2019	05/01/2019	
Residual Range Organics (C28-C40)	3640	1000	"	"	"	JTD	"	"	

Surrogate: o-Terphenyl

78.3 %	50-150	"	"	"
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pH in Soil by EPA 9045D

pH	7.73	pH Units	1	B9D2909	OLAB	04/29/2019	04/29/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.104	0.00500	mmhos/cm	"	B9D3006	OLAB	04/30/2019	04/30/2019	
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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014219041
Project: KMG - Aristocrat 41-9

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9D3007 - EPA 5030 (soil)										
Blank (B9D3007-BLK1)					Prepared: 04/30/2019 Analyzed: 04/30/2019					
Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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Arvada CO 80003

Brian Sulzberger
Project Number: 014219041
Project: KMG - Aristocrat 41-9

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9D3007 - EPA 5030 (soil)										
Blank (B9D3007-BLK2)					Prepared: 04/30/2019 Analyzed: 04/30/2019					
Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9D3007 - EPA 5030 (soil)

LCS (B9D3007-BS1)

Prepared: 04/30/2019 Analyzed: 04/30/2019

Benzene	0.112	0.00200	mg/kg	0.100		112	70-130			
Toluene	0.113	0.00200	"	0.100		113	70-130			
Ethylbenzene	0.113	0.00200	"	0.100		113	70-130			
m,p-Xylene	0.233	0.00400	"	0.200		117	70-130			
o-Xylene	0.113	0.00200	"	0.100		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.5	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger
Project Number: 014219041
Project: KMG - Aristocrat 41-9

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9D3007 - EPA 5030 (soil)

LCS (B9D3007-BS2)

Prepared: 04/30/2019 Analyzed: 04/30/2019

Benzene	0.109	0.00200	mg/kg	0.100		109	70-130			
Toluene	0.108	0.00200	"	0.100		108	70-130			
Ethylbenzene	0.110	0.00200	"	0.100		110	70-130			
m,p-Xylene	0.228	0.00400	"	0.200		114	70-130			
o-Xylene	0.111	0.00200	"	0.100		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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Arvada CO 80003

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Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9D3007 - EPA 5030 (soil)

Matrix Spike (B9D3007-MS1)		Source: Y904499-01			Prepared: 04/30/2019 Analyzed: 04/30/2019					
Benzene	2.86	0.0500	mg/kg	2.50	ND	114	70-130			
Toluene	2.80	0.0500	"	2.50	ND	112	70-130			
Ethylbenzene	2.98	0.0500	"	2.50	ND	119	70-130			
m,p-Xylene	6.09	0.100	"	5.00	ND	122	70-130			
o-Xylene	2.98	0.0500	"	2.50	0.00850	119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.125		122	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9D3007 - EPA 5030 (soil)

Matrix Spike (B9D3007-MS2)		Source: Y904507-01			Prepared: 04/30/2019 Analyzed: 04/30/2019					
Benzene	0.113	0.00200	mg/kg	0.100	ND	113	70-130			
Toluene	0.111	0.00200	"	0.100	ND	111	70-130			
Ethylbenzene	0.116	0.00200	"	0.100	ND	116	70-130			
m,p-Xylene	0.240	0.00400	"	0.200	ND	120	70-130			
o-Xylene	0.118	0.00200	"	0.100	ND	118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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

Brian Sulzberger
Project Number: 014219041
Project: KMG - Aristocrat 41-9

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9D3007 - EPA 5030 (soil)

Matrix Spike Dup (B9D3007-MSD1)		Source: Y904499-01			Prepared: 04/30/2019 Analyzed: 04/30/2019					
Benzene	2.82	0.0500	mg/kg	2.50	ND	113	70-130	1.37	20	
Toluene	2.76	0.0500	"	2.50	ND	111	70-130	1.20	20	
Ethylbenzene	2.94	0.0500	"	2.50	ND	118	70-130	1.06	20	
m,p-Xylene	5.97	0.100	"	5.00	ND	119	70-130	1.93	20	
o-Xylene	2.95	0.0500	"	2.50	0.00850	118	70-130	1.05	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

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Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger
Project Number: 014219041
Project: KMG - Aristocrat 41-9

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9D3007 - EPA 5030 (soil)

Matrix Spike Dup (B9D3007-MSD2)		Source: Y904507-01			Prepared: 04/30/2019 Analyzed: 04/30/2019					
Benzene	0.103	0.00200	mg/kg	0.100	ND	103	70-130	9.67	20	
Toluene	0.102	0.00200	"	0.100	ND	102	70-130	8.80	20	
Ethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130	11.6	20	
m,p-Xylene	0.212	0.00400	"	0.200	ND	106	70-130	12.4	20	
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130	12.4	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Arvada CO 80003

Brian Sulzberger
Project Number: 014219041
Project: KMG - Aristocrat 41-9

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9D3008 - EPA 3550B										
Blank (B9D3008-BLK1)					Prepared: 04/30/2019 Analyzed: 04/30/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	44		"	50.0		87.5	50-150			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014219041
Project: KMG - Aristocrat 41-9

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9D3008 - EPA 3550B										
Blank (B9D3008-BLK2)					Prepared: 04/30/2019 Analyzed: 04/30/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	46		"	50.0		91.9	50-150			

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

Brian Sulzberger
Project Number: 014219041
Project: KMG - Aristocrat 41-9

Extractable Petroleum Hydrocarbons by 8015D - 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 B9D3008 - EPA 3550B

LCS (B9D3008-BS1)

Prepared: 04/30/2019 Analyzed: 04/30/2019

Diesel (C10-C28)	1070	50.0	mg/kg	1000		107	70-130			
Residual Range Organics (C28-C40)	1060	200	"	1000		106	70-130			
Surrogate: o-Terphenyl	54		"	50.0		108	50-150			

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Jen Pellegrini For Noelle Doyle Mathis, President

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Extractable Petroleum Hydrocarbons by 8015D - 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 B9D3008 - EPA 3550B

LCS (B9D3008-BS2)

Prepared: 04/30/2019 Analyzed: 04/30/2019

Diesel (C10-C28)	1130	50.0	mg/kg	1000		113	70-130			
Residual Range Organics (C28-C40)	1150	200	"	1000		115	70-130			
Surrogate: o-Terphenyl	58		"	50.0		115	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - 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 B9D3008 - EPA 3550B

Matrix Spike (B9D3008-MS1)		Source: Y904499-01			Prepared: 04/30/2019 Analyzed: 04/30/2019					
Diesel (C10-C28)	1590	50.0	mg/kg	1000	376	121	70-130			
Residual Range Organics (C28-C40)	1330	200	"	1000	209	112	70-130			
Surrogate: o-Terphenyl	56		"	50.0		113	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - 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 B9D3008 - EPA 3550B

Matrix Spike (B9D3008-MS2)		Source: Y904507-01			Prepared: 04/30/2019 Analyzed: 04/30/2019					
Diesel (C10-C28)	961	50.0	mg/kg	1000	ND	96.1	70-130			
Residual Range Organics (C28-C40)	945	200	"	1000	ND	94.5	70-130			
Surrogate: o-Terphenyl	50		"	50.0		99.5	50-150			

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Project: KMG - Aristocrat 41-9

Extractable Petroleum Hydrocarbons by 8015D - 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 B9D3008 - EPA 3550B

Matrix Spike Dup (B9D3008-MSD1)		Source: Y904499-01			Prepared: 04/30/2019 Analyzed: 04/30/2019					
Diesel (C10-C28)	1510	50.0	mg/kg	1000	376	114	70-130	6.26	35	
Residual Range Organics (C28-C40)	1300	200	"	1000	209	109	70-130	2.97	35	
Surrogate: o-Terphenyl	56		"	50.0		113	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - 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 B9D3008 - EPA 3550B

Matrix Spike Dup (B9D3008-MSD2)		Source: Y904507-01			Prepared: 04/30/2019 Analyzed: 04/30/2019					
Diesel (C10-C28)	1110	50.0	mg/kg	1000	ND	111	70-130	14.3	35	
Residual Range Organics (C28-C40)	1120	200	"	1000	ND	112	70-130	17.2	35	
Surrogate: o-Terphenyl	57		"	50.0		114	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - 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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Classical Chemistry Parameters - 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 B9D2909 - NO PREP

Duplicate (B9D2909-DUP1)		Source: Y904485-01			Prepared: 04/29/2019 Analyzed: 04/29/2019					
pH	7.41		pH Units		7.56			2.00	25	

Batch B9D3006 - NO PREP

Blank (B9D3006-BLK1)		Prepared: 04/30/2019 Analyzed: 04/30/2019								
Specific Conductance (EC)	0.00200	0.00500	mmhos/cm							
Duplicate (B9D3006-DUP1)		Source: Y904494-01			Prepared: 04/30/2019 Analyzed: 04/30/2019					
Specific Conductance (EC)	0.624	0.00500	mmhos/cm		0.522			17.8	25	

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4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014219041
Project: KMG - Aristocrat 41-9

Notes and Definitions

U Sample is Non-Detect.

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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