

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)										pH (unit)	SAR
				500	0.17	85	100	175	23	4	(6-9)	12			
Sample ID:	Sample Date:	Sample Depth (feet bgs):	Photoionization Detector Reading (ppm):	TPH-GRO (G6-C10) Low Fraction	TPH-DRO (C10-C28) High Fraction	TPH-RRO (C28-C40) High Fraction	Benzene	Toluene	Ethylbenzene	Xylenes - total	Naphthalene	EC (<4 mmhos/cm or 2x background)			
SB01@6'	04/29/2019	6'	436.5	590	10300	4200	<0.0500	<0.0500	1.54	31.0	NA	0.0830	7.56	NA	
SB02@6'	04/29/2019	6'	360.3	568	8780	3640	<0.0500	<0.0500	0.910	14.1	NA	0.104	7.73	NA	
SB03@14'	05/22/2019	14'	848.3	1390	10400	3610	0.217	<0.050	4.85	62.9	8.50	0.129	7.79	9.64	
SB04@14'	05/22/2019	14'	11.8	<0.200	<25.0	<100	<0.002	<0.002	<0.002	<0.002	<0.008	0.118	8.67	3.63	
SB05@12'	05/22/2019	12'	5.0	<0.200	<25.0	<100	<0.002	<0.002	<0.002	<0.002	<0.008	0.0586	8.50	1.51	
SB06@14'	05/22/2019	14'	1.8	<0.200	<25.0	<100	<0.002	<0.002	<0.002	<0.002	<0.008	0.0864	8.51	15.29 †	
SB07@10'	05/22/2019	10'	2.0	<0.200	<25.0	<100	<0.002	<0.002	<0.002	<0.002	<0.008	0.0373	8.68	0.28	
SB08@8'	05/22/2019	8'	302.4	247	2500	989	<0.050	<0.050	0.192	3.63	1.68	0.0578	7.92	5.86	
B01@19'	07/01/2019	19'	266.7	1810	5980	1800	0.131	<0.050	6.51	76.4	21.2	0.203	9.67 †	18.53 †	
N01@17'	07/01/2019	17'	572.6	381	6600	2300	<0.050	<0.050	<0.050	<0.050	<0.200	NA	NA	NA	
E02@6'	07/02/2019	6'	0.9	<0.200	<25.0	<100	<0.002	<0.002	<0.002	<0.002	<0.008	NA	NA	NA	
N02@10'	07/02/2019	10'	0.6	<0.200	<25.0	<100	<0.002	<0.002	<0.002	<0.002	<0.008	NA	NA	NA	
S02@6'	07/02/2019	6'	3.9	<0.200	<25.0	<100	<0.002	<0.002	<0.002	<0.002	<0.008	NA	NA	NA	
B02@25'	07/16/2019	25'	295.9	23.7	<25.0	<100	<0.050	<0.050	<0.050	<0.050	<0.200	0.237	8.93	12.54 †	
B03@25'	07/16/2019	25'	439.8	36.6	48.2	<100	<0.050	<0.050	0.066	<0.050	<0.200	0.303	9.26 †	25.27 †	
B04@25'	07/16/2019	25'	1.1	<5.00	<25.0	<100	<0.050	<0.050	<0.050	<0.050	<0.200	0.224	9.53 †	14.67 †	
E03@12'	07/16/2019	12'	0.3	<5.00	<25.0	<100	<0.050	<0.050	<0.050	<0.050	<0.200	NA	NA	NA	
E04@11'	07/16/2019	11'	0.0	<5.00	<25.0	<100	<0.050	<0.050	<0.050	<0.050	<0.200	NA	NA	NA	
N03@11'	07/16/2019	11'	0.0	<5.00	<25.0	<100	<0.050	<0.050	<0.050	<0.050	<0.200	NA	NA	NA	



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

COGCC Allowable Concentration (Soil) -->				Organics (mg/kg)										4	(6-9)	12
				500	0.17	85	100	175	23							
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	Benzene	Toluene	Ethylbenzene	Xylenes - total	Naphthalene	EC (<4 mmhos/cm or 2x background)	pH (unit)	SAR		
N04@11'	07/16/2019	11'	0.0	<5.00	<25.0	<100	<0.050	<0.050	<0.050	<0.050	<0.200	NA	NA	NA		
S03@11'	07/16/2019	11'	0.0	<5.00	<25.0	<100	<0.050	<0.050	<0.050	<0.050	<0.200	NA	NA	NA		
S04@12'	07/16/2019	12'	1.0	<5.00	<25.0	<100	<0.050	<0.050	<0.050	<0.050	<0.200	NA	NA	NA		
W01@11'	07/16/2019	11'	0.0	<5.00	<25.0	<100	<0.050	<0.050	<0.050	<0.050	<0.200	NA	NA	NA		
W02@10'	07/16/2019	10'	0.2	<5.00	<25.0	<100	<0.050	<0.050	<0.050	<0.050	<0.200	NA	NA	NA		
B05@25'	07/17/2019	25'	604.1	<5.00	<25.0	<100	<0.050	<0.050	<0.050	<0.050	<0.200	0.268	9.35 †	15.74 †		

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

EC - Specific Conductance

mmhos/cm - millimhos per centimeter

SAR - Sodium Adsorption Ratio

NA - not analyzed

Bold indicates result exceeds allowable level

† - Sample was collected at a depth greater than 3 feet bgs



TABLE 2
GROUNDWATER ANALYTICAL AND FIELD RESULTS
ARISTOCRAT 41-9 1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
GW01	7/17/2019	<4.00	<4.00	6.68	78.4	24	NA
SB03	5/23/2019	63.4	<4.00	1,210	13,500	13.28	84.34
	5/29/2019	Depth to Water Measurement - Not Sampled				13.06	84.56
	SB03 destroyed on 7/1/2019						
SB04	5/23/2019	71.7	<4.00	469	4,780	14.47	81.46
	5/29/2019	Depth to Water Measurement - Not Sampled				14.24	81.69
	SB04 destroyed on 7/1/2019						
SB05	5/23/2019	<4.00	<4.00	<4.00	<4.00	12.83	87.65
	5/29/2019	Depth to Water Measurement - Not Sampled				12.62	87.86
	SB05 destroyed on 7/1/2019						
SB06	5/23/2019	8.04	<4.00	410	5,060	14.19	85.38
	5/29/2019	Depth to Water Measurement - Not Sampled				14.15	85.42
	SB06 destroyed on 7/1/2019						
SB07	5/23/2019	<4.00	<4.00	<4.00	16.9	13.05	84.00
	5/29/2019	Depth to Water Measurement - Not Sampled				12.21	84.84
	SB07 destroyed on 7/1/2019						
SB08	5/23/2019	288	<4.00	1,250	14,200	13.81	82.94
	5/29/2019	Depth to Water Measurement - Not Sampled				13.50	83.25
	SB08 destroyed on 7/1/2019						
SB09	5/29/2019	<4.00	12.2	2,410	29,100	14.74	81.18
	SB09 destroyed on 7/1/2019						
SB10	5/29/2019	<4.00	<4.00	58.4	532	14.48	81.50
	SB10 destroyed on 7/1/2019						
SB11	5/29/2019	<1.00	<1.00	1.07	9.32	14.96	81.06
	SB11 destroyed on 7/1/2019						



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KERR-MCGEE OIL & GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
SB12	5/29/2019	<4.00	<4.00	46.6	202	14.46	81.35
	SB12 destroyed on 7/1/2019						
SB13	5/29/2019	<1.00	<1.00	<1.00	<1.00	14.27	81.39
	SB13 destroyed on 7/1/2019						
SB14	5/29/2019	<1.00	<1.00	1.95	<1.00	14.55	81.40
	SB14 destroyed on 7/1/2019						
MW01	10/25/2019	<1.00	<1.00	3.36	11.4	13.86	86.64
	11/14/2019	Depth to Water Measurement - Not Sampled				14.15	86.35
MW02	10/25/2019	<1.00	<1.00	<1.00	3.16	13.60	84.84
	11/14/2019	Depth to Water Measurement - Not Sampled				13.89	84.55
MW03	10/25/2019	1.32	<1.00	171	1,420	13.41	90.44
	11/14/2019	Depth to Water Measurement - Not Sampled				13.69	90.16
MW04	10/25/2019	<1.00	<1.00	<1.00	<1.00	13.15	89.83
	11/14/2019	Depth to Water Measurement - Not Sampled				13.42	89.56
MW05	10/25/2019	<1.00	<1.00	6.48	50.5	14.12	86.22
	11/14/2019	Depth to Water Measurement - Not Sampled				14.41	85.93
MW06	10/25/2019	<1.00	<1.00	<1.00	2.51	14.01	86.18
	11/14/2019	Depth to Water Measurement - Not Sampled				14.22	85.97
MW07	10/25/2019	<1.00	<1.00	<1.00	<1.00	15.20	85.35
	11/14/2019	Depth to Water Measurement - Not Sampled				15.45	85.10
MW08	10/25/2019	<1.00	<1.00	<1.00	<1.00	14.51	83.99
	11/14/2019	Depth to Water Measurement - Not Sampled				14.72	83.78
MW09	10/25/2019	<1.00	<1.00	<1.00	<1.00	13.12	90.78
	11/14/2019	Depth to Water Measurement - Not Sampled				13.34	90.56



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GROUNDWATER ANALYTICAL AND FIELD RESULTS
ARISTOCRAT 41-9 1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
MW10	10/25/2019	<1.00	<1.00	<1.00	<1.00	13.46	89.66
	11/14/2019	Depth to Water Measurement - Not Sampled				13.73	89.39
MW11	10/25/2019	<1.00	<1.00	<1.00	<1.00	14.22	86.04
	11/14/2019	Depth to Water Measurement - Not Sampled				14.43	85.83

Notes: COGCC - Colorado Oil and Gas Conservation Commission µg/L - micrograms per liter
ft bgs - feet below ground surface < - less than laboratory reporting limit
NA - not analyzed/not available Excavation groundwater depth is approximate
NM - not measured
BOLD = Analytical result is in exceedance of COGCC Table 910-1 groundwater standards.





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.



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.

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

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
 Date/time completed: 4/29/2019 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 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 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.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 4/30/19

Origins Laboratory, Inc.

[Signature: Jen 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	95.6 %	70-130			"	"		"	
Surrogate: Toluene-d8	100 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	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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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

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)

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
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>99.3</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.12</i>		<i>"</i>	<i>0.125</i>		<i>98.0</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.13</i>		<i>"</i>	<i>0.125</i>		<i>100</i>	<i>70-130</i>			

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LT Environmental, Inc.
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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
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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			

Origins Laboratory, Inc.



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LT Environmental, Inc.
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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
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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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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			

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

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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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 (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			

Origins Laboratory, Inc.



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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
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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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 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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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			

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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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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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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-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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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

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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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										
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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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

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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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

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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LT Environmental, Inc.
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.

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.

Jen Pellegrini For Noelle Doyle Mathis, President



May 30, 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. May 22, 2019. This project is associated with Origins project number Y905325-01.

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
SB03@14'	Y905325-01	Soil	May 22, 2019 9:44	05/22/2019 16:18
SB04@14'	Y905325-02	Soil	May 22, 2019 10:47	05/22/2019 16:18
SB05@12'	Y905325-03	Soil	May 22, 2019 11:36	05/22/2019 16:18
SB06@14'	Y905325-04	Soil	May 22, 2019 12:50	05/22/2019 16:18
SB07@10'	Y905325-05	Soil	May 22, 2019 13:49	05/22/2019 16:18
SB08@8'	Y905325-06	Soil	May 22, 2019 14:42	05/22/2019 16:18

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

Sample Receipt Checklist

Origins Work Order: Y905325
 Checklist Completed by: JG
 Date/time completed: 5/22/2019

Client: LTE
 Client Project ID: Aristocrat
 Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Matrix(es) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 16.1 °C / _____ °C / _____ °C / _____ °C (Describe)
 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⁾ ?		/		<u>Same Day</u>
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours preserved ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water - is there headspace (> ¼ inch bubble) present? if yes, contact client and note in narrative.			/	
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)			/	
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] Date/Time Reviewed: 5/22/19
(Project Manager)

Origins Laboratory, Inc.

Jefe Pellegrini

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

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

SB03@14'

5/22/2019 9:44:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905325-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	10400	500	mg/kg	20	B9E2202	JTD	05/22/2019	05/23/2019	
Residual Range Organics (C28-C40)	3610	2000	"	"	"	JTD	"	"	
Surrogate: <i>o</i> -Terphenyl	1210 %	50-150			"	"	"	"	S-06, S-DUP

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	1390	50.0	mg/kg	250	B9E2105	JTD	05/22/2019	05/22/2019	
Benzene	0.217	0.050	"	25	"	JTD	"	05/22/2019	
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	4.85	0.498	"	250	"	JTD	"	05/22/2019	
Xylenes, total	62.9	0.498	"	"	"	JTD	"	"	
Naphthalene	8.50	2.00	"	"	"	JTD	"	"	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"	"	

Metals (Saturated Paste Prep)

Calcium	0.44		me/L	1	'[none]'		05/23/2019	05/28/2019	
Magnesium	0.18		"	"	"		"	"	
Sodium	5.37		"	"	"		"	"	

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

SB03@14'

5/22/2019 9:44:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905325-01 (Soil)

pH in Soil by EPA 9045D

pH	7.79		pH Units	1	B9E2206	OLAB	05/22/2019	05/22/2019	
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SAR by 20B Saturated Paste

SAR	9.64			1	'[none]'		05/23/2019	05/28/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.129	0.00507	mmhos/cm	1	B9E2207	OLAB	05/22/2019	05/22/2019	
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 4600 West 60th Avenue
 Arvada CO 80003

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

SB04@14'

5/22/2019 10:47:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y905325-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9E2202	JTD	05/22/2019	05/22/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	JTD	"	"	U

Surrogate: *o*-Terphenyl 81.5 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9E2105	JTD	05/22/2019	05/22/2019	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U
Naphthalene	ND	0.008	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 95.2 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	0.78		me/L	1	'[none]'		05/23/2019	05/28/2019	
Magnesium	0.27		"	"	"		"	"	
Sodium	2.63		"	"	"		"	"	

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

SB04@14'

5/22/2019 10:47:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905325-02 (Soil)

pH in Soil by EPA 9045D

pH	8.67		pH Units	1	B9E2206	OLAB	05/22/2019	05/22/2019	
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SAR by 20B Saturated Paste

SAR	3.63			1	'[none]'		05/23/2019	05/28/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.118	0.00502	mmhos/cm	1	B9E2207	OLAB	05/22/2019	05/22/2019	
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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

SB05@12'
5/22/2019 11:36:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905325-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9E2202	JTD	05/22/2019	05/22/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	JTD	"	"	U

Surrogate: *o*-Terphenyl 94.6 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9E2105	JTD	05/22/2019	05/22/2019	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U
Naphthalene	ND	0.008	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 96.1 % 70-130 " " "
 Surrogate: Toluene-d8 99.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	2.10		me/L	1	'[none]'		05/23/2019	05/28/2019	
Magnesium	0.68		"	"	"		"	"	
Sodium	1.78		"	"	"		"	"	

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

SB05@12'

5/22/2019 11:36:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905325-03 (Soil)

pH in Soil by EPA 9045D

pH	8.50		pH Units	1	B9E2206	OLAB	05/22/2019	05/22/2019	
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SAR by 20B Saturated Paste

SAR	1.51			1	'[none]'		05/23/2019	05/28/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0586	0.00507	mmhos/cm	1	B9E2207	OLAB	05/22/2019	05/22/2019	
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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

SB06@14'

5/22/2019 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905325-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9E2202	JTD	05/22/2019	05/23/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl 84.9 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9E2105	JTD	05/22/2019	05/22/2019	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U
Naphthalene	ND	0.008	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 95.5 % 70-130 " " "
 Surrogate: Toluene-d8 99.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	0.47		me/L	1	'[none]'		05/23/2019	05/28/2019	
Magnesium	0.17		"	"	"		"	"	
Sodium	8.65		"	"	"		"	"	

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

SB06@14'

5/22/2019 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905325-04 (Soil)

pH in Soil by EPA 9045D

pH	8.51		pH Units	1	B9E2206	OLAB	05/22/2019	05/22/2019	
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SAR by 20B Saturated Paste

SAR	15.29			1	'[none]'		05/23/2019	05/28/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0864	0.00505	mmhos/cm	1	B9E2207	OLAB	05/22/2019	05/22/2019	
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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

SB07@10'

5/22/2019 1:49:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905325-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9E2202	JTD	05/22/2019	05/22/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	JTD	"	"	U

Surrogate: *o*-Terphenyl 78.1 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9E2105	JTD	05/22/2019	05/22/2019	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U
Naphthalene	ND	0.008	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 95.7 % 70-130 " " "
 Surrogate: Toluene-d8 99.4 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	1.91		me/L	1	'[none]'		05/23/2019	05/28/2019	
Magnesium	0.54		"	"	"		"	"	
Sodium	0.31		"	"	"		"	"	

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

SB07@10'

5/22/2019 1:49:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905325-05 (Soil)

pH in Soil by EPA 9045D

pH	8.68		pH Units	1	B9E2206	OLAB	05/22/2019	05/22/2019	
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SAR by 20B Saturated Paste

SAR	0.28			1	'[none]'		05/23/2019	05/28/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0373	0.00505	mmhos/cm	1	B9E2207	OLAB	05/22/2019	05/22/2019	
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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

SB08@8'

5/22/2019 2:42:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905325-06 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	2500	25.0	mg/kg	1	B9E2202	JTD	05/22/2019	05/22/2019	
Residual Range Organics (C28-C40)	989	100	"	"	"	JTD	"	"	

Surrogate: *o*-Terphenyl 92.1 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	247	5.00	mg/kg	25	B9E2105	JTD	05/22/2019	05/22/2019	
Benzene	ND	0.050	"	"	"	JTD	"	"	U
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	0.192	0.050	"	"	"	JTD	"	"	
Xylenes, total	3.63	0.050	"	"	"	JTD	"	"	
Naphthalene	1.68	0.200	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4 95.8 % 70-130 " " "
 Surrogate: Toluene-d8 99.3 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 130 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	0.37		me/L	1	[none]		05/23/2019	05/28/2019	
Magnesium	0.14		"	"	"		"	"	
Sodium	2.96		"	"	"		"	"	

pH in Soil by EPA 9045D

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

SB08@8'

5/22/2019 2:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905325-06 (Soil)

pH in Soil by EPA 9045D

pH	7.92		pH Units	1	B9E2206	OLAB	05/22/2019	05/22/2019	
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SAR by 20B Saturated Paste

SAR	5.86			1	'[none]'		05/23/2019	05/28/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0578	0.00505	mmhos/cm	1	B9E2207	OLAB	05/22/2019	05/22/2019	
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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

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 B9E2105 - EPA 5030 (soil)

Blank (B9E2105-BLK1)

Prepared: 05/21/2019 Analyzed: 05/22/2019

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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

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 B9E2105 - EPA 5030 (soil)

LCS (B9E2105-BS1)

Prepared: 05/21/2019 Analyzed: 05/22/2019

Benzene	0.094	0.002	mg/kg	0.100		93.8	70-130			
Toluene	0.097	0.002	"	0.100		96.8	70-130			
Ethylbenzene	0.104	0.002	"	0.100		104	70-130			
m,p-Xylene	0.233	0.004	"	0.200		116	70-130			
o-Xylene	0.104	0.002	"	0.100		104	70-130			
Naphthalene	0.090	0.008	"	0.100		90.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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

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 B9E2105 - EPA 5030 (soil)

Matrix Spike (B9E2105-MS1)	Source: Y905301-01			Prepared: 05/21/2019 Analyzed: 05/22/2019						
Benzene	0.081	0.002	mg/kg	0.100	0.0006	80.4	70-130			
Toluene	0.082	0.002	"	0.100	ND	81.5	70-130			
Ethylbenzene	0.118	0.002	"	0.100	0.032	86.4	70-130			
m,p-Xylene	0.478	0.004	"	0.200	0.293	92.4	70-130			
o-Xylene	0.195	0.002	"	0.100	0.121	74.5	70-130			
Naphthalene	0.079	0.008	"	0.100	0.012	67.0	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

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

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 B9E2105 - EPA 5030 (soil)

Matrix Spike Dup (B9E2105-MSD1)	Source: Y905301-01			Prepared: 05/21/2019 Analyzed: 05/22/2019						
Benzene	0.086	0.002	mg/kg	0.100	0.0006	85.3	70-130	5.87	20	
Toluene	0.088	0.002	"	0.100	ND	87.6	70-130	7.26	20	
Ethylbenzene	0.095	0.002	"	0.100	0.032	62.8	70-130	22.2	20	QM-07, QR-03
m,p-Xylene	0.212	0.004	"	0.200	0.293	NR	70-130	77.0	20	QM-07, QR-03
o-Xylene	0.095	0.002	"	0.100	0.121	NR	70-130	68.6	20	QM-07, QR-03
Naphthalene	0.090	0.008	"	0.100	0.012	78.2	70-130	13.2	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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

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 B9E2202 - EPA 3580										
Blank (B9E2202-BLK1)										
					Prepared: 05/22/2019 Analyzed: 05/22/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	48		"	50.0		95.1	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 B9E2202 - EPA 3580										
Blank (B9E2202-BLK2)										
					Prepared: 05/22/2019 Analyzed: 05/22/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	45		"	50.0		90.7	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 B9E2202 - EPA 3580										
LCS (B9E2202-BS1)					Prepared: 05/22/2019 Analyzed: 05/22/2019					
Diesel (C10-C28)	956	50.0	mg/kg	1000		95.6	70-130			
Residual Range Organics (C28-C40)	928	200	"	1000		92.8	70-130			
Surrogate: o-Terphenyl	53		"	50.0		106	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 B9E2202 - EPA 3580										
LCS (B9E2202-BS2)										
					Prepared: 05/22/2019 Analyzed: 05/22/2019					
Diesel (C10-C28)	951	50.0	mg/kg	1000		95.1	70-130			
Residual Range Organics (C28-C40)	987	200	"	1000		98.7	70-130			
Surrogate: o-Terphenyl	54		"	50.0		108	50-150			

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

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 B9E2202 - EPA 3580

Matrix Spike (B9E2202-MS1)	Source: Y905325-02			Prepared: 05/22/2019 Analyzed: 05/22/2019						
Diesel (C10-C28)	1080	50.0	mg/kg	1000	ND	108	70-130			
Residual Range Organics (C28-C40)	1060	200	"	1000	ND	106	70-130			
<i>Surrogate: o-Terphenyl</i>	58		"	50.0		116	50-150			

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

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 B9E2202 - EPA 3580

Matrix Spike (B9E2202-MS2)	Source: Y905325-05			Prepared: 05/22/2019 Analyzed: 05/22/2019						
Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130			
Residual Range Organics (C28-C40)	905	200	"	1000	ND	90.5	70-130			
Surrogate: o-Terphenyl	50		"	50.0		99.1	50-150			

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

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 B9E2202 - EPA 3580										
Matrix Spike Dup (B9E2202-MSD1)					Source: Y905325-02					Prepared: 05/22/2019 Analyzed: 05/22/2019
Diesel (C10-C28)	963	50.0	mg/kg	1000	ND	96.3	70-130	11.9	35	
Residual Range Organics (C28-C40)	996	200	"	1000	ND	99.6	70-130	6.31	35	
Surrogate: o-Terphenyl	54		"	50.0		108	50-150			

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

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 B9E2202 - EPA 3580

Matrix Spike Dup (B9E2202-MSD2)	Source: Y905325-05		Prepared: 05/22/2019 Analyzed: 05/22/2019							
Diesel (C10-C28)	1040	50.0	mg/kg	1000	ND	104	70-130	2.68	35	
Residual Range Organics (C28-C40)	950	200	"	1000	ND	95.0	70-130	4.77	35	
Surrogate: o-Terphenyl	50		"	50.0		101	50-150			

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

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

Notes and Definitions

- U Sample is Non-Detect.
- S-DUP Duplicate analysis confirmed surrogate failure due to matrix effects.
- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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.



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.



May 24, 2019

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Aristocrat 41-9-1

Project Number - 014219041

Attached are your analytical results for KMG - Aristocrat 41-9-1 received by Origins Laboratory, Inc. May 23, 2019. This project is associated with Origins project number Y905346-01.

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 41-9-1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB07	Y905346-01	Water	May 23, 2019 13:55	05/23/2019 17:08
SB05	Y905346-02	Water	May 23, 2019 14:05	05/23/2019 17:08
SB03	Y905346-03	Water	May 23, 2019 14:25	05/23/2019 17:08
SB08	Y905346-04	Water	May 23, 2019 14:15	05/23/2019 17:08
SB04	Y905346-05	Water	May 23, 2019 15:05	05/23/2019 17:08
SB06	Y905346-06	Water	May 23, 2019 15:25	05/23/2019 17:08

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.

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 41-9-1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1905346 Client: LTE
 Client Project ID: Aristocrat 41-9-1
 Checklist Completed by: JG Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/Time completed: 5/23/2012 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 5.4 °C _____ / _____ °C _____ / _____ °C (Describe)
 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input 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) [Signature] Date/Time Reviewed 5/23/12

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9-1

SB07

5/23/2019 1:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905346-01 (Water)

BTEX by EPA 8260D

Benzene	ND	4.00	ug/L	4	B9E2306	JTD	05/23/2019	05/23/2019	U
Toluene	ND	4.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	4.00	"	"	"	JTD	"	"	U
Xylenes, total	16.9	4.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	"	

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

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9-1

SB05

5/23/2019 2:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905346-02 (Water)

BTEX by EPA 8260D

Benzene	ND	4.00	ug/L	4	B9E2306	JTD	05/23/2019	05/23/2019	U
Toluene	ND	4.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	4.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	4.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	104 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.2 %	70-130			"	"	"	"	

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

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9-1

SB03

5/23/2019 2:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905346-03 (Water)

BTEX by EPA 8260D

Benzene	63.4	4.00	ug/L	4	B9E2306	JTD	05/23/2019	05/23/2019	
Toluene	ND	4.00	"	"	"	JTD	"	"	U
Ethylbenzene	1210	50.0	"	50	"	JTD	"	05/23/2019	
Xylenes, total	13500	50.0	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130			"	"		05/23/2019	
Surrogate: Toluene-d8	105 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"		"	

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

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9-1

SB08

5/23/2019 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905346-04 (Water)

BTEX by EPA 8260D

Benzene	288	50.0	ug/L	50	B9E2306	JTD	05/23/2019	05/23/2019	
Toluene	ND	4.00	"	4	"	JTD	"	05/23/2019	U
Ethylbenzene	1250	50.0	"	50	"	JTD	"	05/23/2019	
Xylenes, total	14200	50.0	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130			"	"		05/23/2019	
Surrogate: Toluene-d8	107 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	99.7 %	70-130			"	"		"	

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 41-9-1

SB04

5/23/2019 3:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905346-05 (Water)

BTEX by EPA 8260D

Benzene	71.7	4.00	ug/L	4	B9E2306	JTD	05/23/2019	05/23/2019	
Toluene	ND	4.00	"	"	"	JTD	"	"	U
Ethylbenzene	469	50.0	"	50	"	JTD	"	05/23/2019	
Xylenes, total	4780	50.0	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.6 %	70-130			"	"		05/23/2019	
Surrogate: Toluene-d8	106 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	99.8 %	70-130			"	"		"	

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 41-9-1

SB06

5/23/2019 3:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905346-06 (Water)

BTEX by EPA 8260D

Benzene	8.04	4.00	ug/L	4	B9E2306	JTD	05/23/2019	05/23/2019	
Toluene	ND	4.00	"	"	"	JTD	"	"	U
Ethylbenzene	410	50.0	"	50	"	JTD	"	05/23/2019	
Xylenes, total	5060	50.0	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"		05/23/2019	
Surrogate: Toluene-d8	107 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"		"	

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 41-9-1

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 B9E2306 - EPA 5030B (Water)

Blank (B9E2306-BLK1)

Prepared: 05/23/2019 Analyzed: 05/23/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.4	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.3	70-130			

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 41-9-1

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 B9E2306 - EPA 5030B (Water)

LCS (B9E2306-BS1)

Prepared: 05/23/2019 Analyzed: 05/23/2019

Benzene	52.9	1.00	ug/L	50.0		106	70-130			
Toluene	54.8	1.00	"	50.0		110	70-130			
Ethylbenzene	57.0	1.00	"	50.0		114	70-130			
m,p-Xylene	108	2.00	"	100		108	70-130			
o-Xylene	52.7	1.00	"	50.0		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.2	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9-1

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 B9E2306 - EPA 5030B (Water)

Matrix Spike (B9E2306-MS1)	Source: Y905331-03			Prepared: 05/23/2019 Analyzed: 05/23/2019						
Benzene	50.6	1.00	ug/L	50.0	ND	101	70-130			
Toluene	53.8	1.00	"	50.0	0.470	107	70-130			
Ethylbenzene	54.6	1.00	"	50.0	0.520	108	70-130			
m,p-Xylene	108	2.00	"	100	2.53	105	70-130			
o-Xylene	53.2	1.00	"	50.0	1.20	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		90.9	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9-1

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 B9E2306 - EPA 5030B (Water)

Matrix Spike Dup (B9E2306-MSD1)	Source: Y905331-03			Prepared: 05/23/2019 Analyzed: 05/23/2019						
Benzene	54.0	1.00	ug/L	50.0	ND	108	70-130	6.39	20	
Toluene	55.6	1.00	"	50.0	0.470	110	70-130	3.28	20	
Ethylbenzene	57.0	1.00	"	50.0	0.520	113	70-130	4.29	20	
m,p-Xylene	113	2.00	"	100	2.53	110	70-130	4.34	20	
o-Xylene	54.3	1.00	"	50.0	1.20	106	70-130	2.01	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.6	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.7	70-130			

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

Brian Sulzberger
Project Number: 014219041
Project: KMG - Aristocrat 41-9-1

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.

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.

Jen Pellegrini For Noelle Doyle Mathis, President



June 03, 2019

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Aristocrat 41-9-1

Project Number - 014219041

Attached are your analytical results for KMG - Aristocrat 41-9-1 received by Origins Laboratory, Inc. May 29, 2019. This project is associated with Origins project number Y905409-01.

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 41-9-1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB09	Y905409-01	Water	May 29, 2019 14:19	05/29/2019 17:00
SB10	Y905409-02	Water	May 29, 2019 14:27	05/29/2019 17:00
SB11	Y905409-03	Water	May 29, 2019 14:32	05/29/2019 17:00
SB12	Y905409-04	Water	May 29, 2019 14:38	05/29/2019 17:00
SB13	Y905409-05	Water	May 29, 2019 14:42	05/29/2019 17:00
SB14	Y905409-06	Water	May 29, 2019 14:49	05/29/2019 17:00

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.

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 41-9-1

ORIGINS
 LABORATORY, INC

www.originslaboratory.com

7905409

page 1 of 1

Client: Environmental
 Project Manager: B. Sulzberger
 Address: 4600 West 60th Ave
Arvada, CO 80003
 Project Name: Aristocrat 41-9-1
 Project Number: 014219041
 Telephone Number: _____
 Samples Collected By: DT, HGT, JC
 Email Address: fieldgroup

Fax: 303.265.9645 | Phone: 303.433.1322 | Denver, CO 80211 | 1725 Elk Place

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summ #	Other				
SB09	05/29/09	1419	3					X							
SB10		1427	3					X							
SB11		1432	3					X							
SB12		1438	3					X							
SB13		1442	3					X							
SB14		1449	3					X							
Relinquished By: <u>ACCURACY CHEMIST</u>	Date: <u>05/29/2019</u>	Time: <u>1700</u>		Received By: <u>[Signature]</u>	Date: <u>5-29-19</u>	Time: <u>1700</u>		Turnaround Time: <input type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard							
Relinquished By:	Date:	Time:		Received By:	Date:	Time:									

Temp Received: 5.0 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 41-9-1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y905409

Client: LTE
 Client Project ID: Aristocrat 41-9-1

Checklist Completed by: JG
 Date/time completed: 5/30/2019

Shipped Via: HD
 (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 / 50 °C 1 / °C 1 / °C 1 / °C (Describe)

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"/>			
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 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)

5/31/19
 Date/Time Reviewed

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 41-9-1

SB09

5/29/2019 2:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905409-01 (Water)

BTEX by EPA 8260D

Benzene	ND	4.00	ug/L	4	B9E3003	KDK	05/30/2019	05/31/2019	U
Toluene	12.2	4.00	"	"	"	KDK	"	"	
Ethylbenzene	2410	100	"	100	"	JTD	"	05/31/2019	
Xylenes, total	29100	100	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"	"	"	

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 41-9-1

SB10

5/29/2019 2:27:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905409-02 (Water)

BTEX by EPA 8260D

Benzene	ND	4.00	ug/L	4	B9E3003	KDK	05/30/2019	06/01/2019	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	58.4	4.00	"	"	"	KDK	"	"	
Xylenes, total	532	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"		05/31/2019	
Surrogate: Toluene-d8	97.0 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"		"	

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 41-9-1

SB11

5/29/2019 2:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905409-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9E3003	JTD	05/30/2019	05/31/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	1.07	1.00	"	"	"	JTD	"	"	
Xylenes, total	9.32	1.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"		
Surrogate: Toluene-d8	97.5 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"		

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 41-9-1

SB12

5/29/2019 2:38:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905409-04 (Water)

BTEX by EPA 8260D

Benzene	ND	4.00	ug/L	4	B9E3003	KDK	05/30/2019	06/01/2019	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	46.6	4.00	"	"	"	KDK	"	"	
Xylenes, total	202	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"		05/31/2019	
Surrogate: Toluene-d8	97.4 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"		"	

Origins Laboratory, Inc.



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Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9-1

SB13

5/29/2019 2:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905409-05 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9E3003	JTD	05/30/2019	05/31/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger
Project Number: 014219041
Project: KMG - Aristocrat 41-9-1

SB14

5/29/2019 2:49:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y905409-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9E3003	JTD	05/30/2019	05/31/2019	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	1.95	1.00	"	"	"	JTD	"	"	
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"		
Surrogate: Toluene-d8	99.8 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"		

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 41-9-1

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 B9E3003 - EPA 5030B (Water)

Blank (B9E3003-BLK1)

Prepared: 05/30/2019 Analyzed: 05/30/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	68		"	62.5	108		70-130			
Surrogate: Toluene-d8	61		"	62.5	98.4		70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5	104		70-130			

Origins Laboratory, Inc.



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LT Environmental, Inc.
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 Arvada CO 80003

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9-1

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 B9E3003 - EPA 5030B (Water)

Blank (B9E3003-BLK2)

Prepared: 05/30/2019 Analyzed: 05/30/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5	107		70-130			
Surrogate: Toluene-d8	62		"	62.5	99.0		70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5	105		70-130			

Origins Laboratory, Inc.



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LT Environmental, Inc.
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 Arvada CO 80003

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9-1

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 B9E3003 - EPA 5030B (Water)

LCS (B9E3003-BS1)

Prepared: 05/30/2019 Analyzed: 05/30/2019

Benzene	51.5	1.00	ug/L	50.0		103	70-130			
Toluene	50.7	1.00	"	50.0		101	70-130			
Ethylbenzene	51.2	1.00	"	50.0		102	70-130			
m,p-Xylene	103	2.00	"	100		103	70-130			
o-Xylene	51.0	1.00	"	50.0		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	61		"	62.5		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	70-130			

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

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9-1

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 B9E3003 - EPA 5030B (Water)

LCS (B9E3003-BS2)

Prepared: 05/30/2019 Analyzed: 05/30/2019

Benzene	46.3	1.00	ug/L	50.0		92.5	70-130			
Toluene	44.9	1.00	"	50.0		89.8	70-130			
Ethylbenzene	45.6	1.00	"	50.0		91.2	70-130			
m,p-Xylene	91.7	2.00	"	100		91.7	70-130			
o-Xylene	47.9	1.00	"	50.0		95.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		103	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

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 41-9-1

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 B9E3003 - EPA 5030B (Water)

Matrix Spike (B9E3003-MS1)	Source: Y905406-22			Prepared: 05/30/2019 Analyzed: 05/30/2019						
Benzene	45.1	1.00	ug/L	50.0	ND	90.1	70-130			
Toluene	44.1	1.00	"	50.0	ND	88.2	70-130			
Ethylbenzene	45.0	1.00	"	50.0	ND	90.0	70-130			
m,p-Xylene	90.5	2.00	"	100	ND	90.5	70-130			
o-Xylene	47.5	1.00	"	50.0	ND	95.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	70-130			

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 41-9-1

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 B9E3003 - EPA 5030B (Water)

Matrix Spike (B9E3003-MS2)	Source: Y905406-23			Prepared: 05/30/2019 Analyzed: 05/30/2019						
Benzene	44.6	1.00	ug/L	50.0	ND	89.1	70-130			
Toluene	43.0	1.00	"	50.0	ND	85.9	70-130			
Ethylbenzene	35.8	1.00	"	50.0	ND	71.7	70-130			
m,p-Xylene	60.1	2.00	"	100	0.180	59.9	70-130			QM-07
o-Xylene	48.2	1.00	"	50.0	0.860	94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

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 41-9-1

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 B9E3003 - EPA 5030B (Water)

Matrix Spike Dup (B9E3003-MSD1)	Source: Y905406-22			Prepared: 05/30/2019 Analyzed: 05/30/2019						
Benzene	44.6	1.00	ug/L	50.0	ND	89.3	70-130	0.914	20	
Toluene	44.9	1.00	"	50.0	ND	89.9	70-130	1.93	20	
Ethylbenzene	45.6	1.00	"	50.0	ND	91.3	70-130	1.43	20	
m,p-Xylene	91.2	2.00	"	100	ND	91.2	70-130	0.682	20	
o-Xylene	48.0	1.00	"	50.0	ND	96.0	70-130	1.01	20	
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		105	70-130			

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 41-9-1

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 B9E3003 - EPA 5030B (Water)

Matrix Spike Dup (B9E3003-MSD2)	Source: Y905406-23			Prepared: 05/30/2019 Analyzed: 05/30/2019						
Benzene	42.9	1.00	ug/L	50.0	ND	85.9	70-130	3.73	20	
Toluene	41.2	1.00	"	50.0	ND	82.4	70-130	4.21	20	
Ethylbenzene	32.2	1.00	"	50.0	ND	64.3	70-130	10.8	20	QM-07
m,p-Xylene	51.2	2.00	"	100	0.180	51.0	70-130	16.0	20	QM-07
o-Xylene	46.5	1.00	"	50.0	0.860	91.2	70-130	3.65	20	
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

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

Brian Sulzberger
Project Number: 014219041
Project: KMG - Aristocrat 41-9-1

Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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.



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.

Jen Pellegrini For Noelle Doyle Mathis, President



July 09, 2019

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Aristocrat 41-9 #1

Project Number - 014219041

Attached are your analytical results for KMG - Aristocrat 41-9 #1 received by Origins Laboratory, Inc. July 01, 2019. This project is associated with Origins project number Y907044-01.

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 #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@19'	Y907044-01	Soil	July 1, 2019 15:41	07/01/2019 18:30
N01@17'	Y907044-03	Soil	July 1, 2019 15:38	07/01/2019 18:30

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 #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4907044

Client: LTE

Client Project ID: KMG - Aristocrat 41-9 #1

Checklist Completed by: D. Lee

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

Date/time completed: 7-1-19

Airbill #: NA

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

Cooler Number/Temperature: 1 / 3.5 °C 1 °C 1 °C 1 °C (Describe)

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"/>			
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"/>			pH
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) [Signature]

Date/Time Reviewed 7-1-19

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

B01@19'

7/1/2019 3:41:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907044-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	5980	250	mg/kg	10	B9G0103	KDK	07/01/2019	07/02/2019	
Residual Range Organics (C28-C40)	1800	1000	"	"	"	KDK	"	"	

Surrogate: *o*-Terphenyl 148 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	1810	100	mg/kg	500	B9G0102	KDK	07/01/2019	07/02/2019	
Benzene	0.131	0.050	"	25	"	KDK	"	07/02/2019	
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	6.51	0.995	"	500	"	KDK	"	07/02/2019	
Xylenes, total	76.4	0.995	"	"	"	KDK	"	07/02/2019	
Naphthalene	21.2	4.00	"	"	"	KDK	"	07/02/2019	

Surrogate: 1,2-Dichloroethane-d4 95.8 % 70-130 " " "
 Surrogate: Toluene-d8 107 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	0.58		me/L	1	'[none]'		07/05/2019	07/08/2019	
Magnesium	0.37		"	"	"		"	"	
Sodium	12.77		"	"	"		"	"	

pH in Soil by EPA 9045D

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 #1

B01@19'

7/1/2019 3:41:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907044-01 (Soil)

pH in Soil by EPA 9045D

pH	9.67		pH Units	1	B9G0110	OLAB	07/01/2019	07/01/2019	
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SAR by 20B Saturated Paste

SAR	18.53			1	'[none]'		07/05/2019	07/08/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.203	0.00500	mmhos/cm	1	B9G0111	OLAB	07/01/2019	07/01/2019	
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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 #1

N01@17'

7/1/2019 3:38:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y907044-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	6600	250	mg/kg	10	B9G0103	KDK	07/01/2019	07/02/2019	
Residual Range Organics (C28-C40)	2300	1000	"	"	"	KDK	"	"	

Surrogate: o-Terphenyl 121 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	381	5.00	mg/kg	25	B9G0102	KDK	07/01/2019	07/01/2019	
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 96.4 % 70-130 " " "
 Surrogate: Toluene-d8 104 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 128 % 70-130 " " "

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 #1

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 B9G0102 - EPA 5030 (soil)

Blank (B9G0102-BLK1)

Prepared: 07/01/2019 Analyzed: 07/01/2019

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.0	70-130			

Origins Laboratory, Inc.



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LT Environmental, Inc.
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 Arvada CO 80003

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

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 B9G0102 - EPA 5030 (soil)

Blank (B9G0102-BLK2)

Prepared: 07/01/2019 Analyzed: 07/01/2019

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.4	70-130			

Origins Laboratory, Inc.



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LT Environmental, Inc.
 4600 West 60th Avenue
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Brian Sulzberger
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 Project: KMG - Aristocrat 41-9 #1

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 B9G0102 - EPA 5030 (soil)

LCS (B9G0102-BS1)

Prepared: 07/01/2019 Analyzed: 07/01/2019

Benzene	0.103	0.002	mg/kg	0.100		103	70-130			
Toluene	0.105	0.002	"	0.100		105	70-130			
Ethylbenzene	0.105	0.002	"	0.100		105	70-130			
m,p-Xylene	0.209	0.004	"	0.200		104	70-130			
o-Xylene	0.101	0.002	"	0.100		101	70-130			
Naphthalene	0.083	0.008	"	0.100		83.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.2	70-130			

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 #1

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 B9G0102 - EPA 5030 (soil)

LCS (B9G0102-BS2)

Prepared: 07/01/2019 Analyzed: 07/01/2019

Benzene	0.110	0.002	mg/kg	0.100		110	70-130			
Toluene	0.109	0.002	"	0.100		109	70-130			
Ethylbenzene	0.110	0.002	"	0.100		110	70-130			
m,p-Xylene	0.219	0.004	"	0.200		109	70-130			
o-Xylene	0.108	0.002	"	0.100		108	70-130			
Naphthalene	0.086	0.008	"	0.100		85.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.3	70-130			

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Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

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 B9G0102 - EPA 5030 (soil)

Matrix Spike (B9G0102-MS1)	Source: Y907019-01			Prepared: 07/01/2019 Analyzed: 07/01/2019						
Benzene	2.48	0.050	mg/kg	2.50	ND	99.3	70-130			
Toluene	2.45	0.050	"	2.50	ND	98.2	70-130			
Ethylbenzene	2.44	0.050	"	2.50	ND	97.6	70-130			
m,p-Xylene	4.85	0.100	"	5.00	ND	97.0	70-130			
o-Xylene	2.43	0.050	"	2.50	ND	97.2	70-130			
Naphthalene	1.76	0.200	"	2.50	0.339	56.9	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	2.9		"	3.12		94.3	70-130			
Surrogate: Toluene-d8	3.2		"	3.12		101	70-130			
Surrogate: 4-Bromofluorobenzene	3.0		"	3.12		96.3	70-130			

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 #1

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 B9G0102 - EPA 5030 (soil)

Matrix Spike (B9G0102-MS2)	Source: Y907019-02			Prepared: 07/01/2019 Analyzed: 07/01/2019						
Benzene	2.59	0.050	mg/kg	2.50	ND	104	70-130			
Toluene	2.59	0.050	"	2.50	ND	104	70-130			
Ethylbenzene	2.56	0.050	"	2.50	ND	102	70-130			
m,p-Xylene	5.12	0.100	"	5.00	ND	102	70-130			
o-Xylene	2.51	0.050	"	2.50	ND	100	70-130			
Naphthalene	2.15	0.200	"	2.50	0.048	84.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	2.9		"	3.12		93.4	70-130			
Surrogate: Toluene-d8	3.1		"	3.12		100	70-130			
Surrogate: 4-Bromofluorobenzene	3.1		"	3.12		97.9	70-130			

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 #1

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 B9G0102 - EPA 5030 (soil)

Matrix Spike Dup (B9G0102-MSD1)	Source: Y907019-01			Prepared: 07/01/2019 Analyzed: 07/01/2019						
Benzene	2.70	0.050	mg/kg	2.50	ND	108	70-130	8.19	20	
Toluene	2.69	0.050	"	2.50	ND	107	70-130	9.03	20	
Ethylbenzene	2.68	0.050	"	2.50	ND	107	70-130	9.56	20	
m,p-Xylene	5.33	0.100	"	5.00	ND	107	70-130	9.46	20	
o-Xylene	2.61	0.050	"	2.50	ND	104	70-130	7.20	20	
Naphthalene	2.16	0.200	"	2.50	0.339	72.8	70-130	20.2	20	QR-03
Surrogate: 1,2-Dichloroethane-d4	3.0		"	3.12		94.4	70-130			
Surrogate: Toluene-d8	3.2		"	3.12		101	70-130			
Surrogate: 4-Bromofluorobenzene	3.0		"	3.12		97.2	70-130			

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 #1

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 B9G0102 - EPA 5030 (soil)

Matrix Spike Dup (B9G0102-MSD2)	Source: Y907019-02			Prepared: 07/01/2019 Analyzed: 07/01/2019						
Benzene	2.56	0.050	mg/kg	2.50	ND	102	70-130	1.36	20	
Toluene	2.52	0.050	"	2.50	ND	101	70-130	2.44	20	
Ethylbenzene	2.53	0.050	"	2.50	ND	101	70-130	1.28	20	
m,p-Xylene	5.02	0.100	"	5.00	ND	100	70-130	1.79	20	
o-Xylene	2.51	0.050	"	2.50	ND	100	70-130	0.0798	20	
Naphthalene	2.12	0.200	"	2.50	0.048	83.0	70-130	1.38	20	
Surrogate: 1,2-Dichloroethane-d4	2.9		"	3.12		94.2	70-130			
Surrogate: Toluene-d8	3.1		"	3.12		100	70-130			
Surrogate: 4-Bromofluorobenzene	3.1		"	3.12		98.5	70-130			

Origins Laboratory, Inc.



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LT Environmental, Inc.
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 Arvada CO 80003

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

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 B9G0103 - EPA 3580										
Blank (B9G0103-BLK1)										
					Prepared: 07/01/2019 Analyzed: 07/01/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	41		"	50.0		81.8	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 #1

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 B9G0103 - EPA 3580										
Blank (B9G0103-BLK2)										
					Prepared: 07/01/2019 Analyzed: 07/01/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	37		"	50.0		73.1	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 #1

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 B9G0103 - EPA 3580

LCS (B9G0103-BS1)

Prepared: 07/01/2019 Analyzed: 07/01/2019

Diesel (C10-C28)	982	50.0	mg/kg	1000		98.2	70-130			
Residual Range Organics (C28-C40)	935	200	"	1000		93.5	70-130			
Surrogate: o-Terphenyl	50		"	50.0		100	50-150			

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

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

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 B9G0103 - EPA 3580

LCS (B9G0103-BS2)

Prepared: 07/01/2019 Analyzed: 07/01/2019

Diesel (C10-C28)	873	50.0	mg/kg	1000		87.3	70-130			
Residual Range Organics (C28-C40)	805	200	"	1000		80.5	70-130			
Surrogate: o-Terphenyl	44		"	50.0		87.4	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 #1

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 B9G0103 - EPA 3580

Matrix Spike (B9G0103-MS1)	Source: Y907019-01			Prepared: 07/01/2019 Analyzed: 07/01/2019						
Diesel (C10-C28)	959	50.0	mg/kg	1000	ND	95.9	70-130			
Residual Range Organics (C28-C40)	913	200	"	1000	ND	91.3	70-130			
Surrogate: o-Terphenyl	46		"	50.0		91.4	50-150			

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 #1

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 B9G0103 - EPA 3580

Matrix Spike (B9G0103-MS2)	Source: Y907038-01			Prepared: 07/01/2019 Analyzed: 07/01/2019						
Diesel (C10-C28)	977	50.0	mg/kg	1000	ND	97.7	70-130			
Residual Range Organics (C28-C40)	917	200	"	1000	ND	91.7	70-130			
Surrogate: o-Terphenyl	48		"	50.0		96.2	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 #1

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 B9G0103 - EPA 3580

Matrix Spike Dup (B9G0103-MSD1)	Source: Y907019-01		Prepared: 07/01/2019 Analyzed: 07/01/2019							
Diesel (C10-C28)	1050	50.0	mg/kg	1000	ND	105	70-130	9.35	35	
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	70-130	11.3	35	
<i>Surrogate: o-Terphenyl</i>	52		"	50.0		105	50-150			

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 Arvada CO 80003

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

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 B9G0103 - EPA 3580

Matrix Spike Dup (B9G0103-MSD2)	Source: Y907038-01			Prepared: 07/01/2019 Analyzed: 07/01/2019						
Diesel (C10-C28)	937	50.0	mg/kg	1000	ND	93.7	70-130	4.24	35	
Residual Range Organics (C28-C40)	889	200	"	1000	ND	88.9	70-130	3.02	35	
Surrogate: o-Terphenyl	48		"	50.0		96.9	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 #1

Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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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July 03, 2019

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Aristocrat 41-9 #1

Project Number - 014219041

Attached are your analytical results for KMG - Aristocrat 41-9 #1 received by Origins Laboratory, Inc. July 02, 2019. This project is associated with Origins project number Y907066-01.

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 #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N02@10'	Y907066-01	Soil	July 2, 2019 15:44	07/02/2019 16:18
E02@6'	Y907066-02	Soil	July 2, 2019 15:41	07/02/2019 16:18
S02@6'	Y907066-03	Soil	July 2, 2019 15:35	07/02/2019 16:18

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.

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 #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1907066 Client: LTE
 Client Project ID: Aristocrat 41-9 #1
 Checklist Completed by: JG Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 7/2/2019 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 3.8 °C _____ °C _____ °C _____ °C (Describe)
 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"/>			
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)

Date/Time Reviewed 7/2/19

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

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

N02@10'

7/2/2019 3:44:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907066-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9G0205	KDK	07/02/2019	07/02/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 78.0 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9G0207	KDK	07/02/2019	07/02/2019	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " "
 Surrogate: Toluene-d8 90.7 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

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 #1

E02@6'

7/2/2019 3:41:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y907066-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9G0205	KDK	07/02/2019	07/02/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 71.9 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9G0207	KDK	07/02/2019	07/03/2019	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " "
 Surrogate: Toluene-d8 90.4 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

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 #1

S02@6'

7/2/2019 3:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907066-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9G0205	KDK	07/02/2019	07/03/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 75.9 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9G0207	KDK	07/02/2019	07/03/2019	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "
Surrogate: Toluene-d8 88.6 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

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 #1

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 B9G0205 - EPA 3580										
Blank (B9G0205-BLK1)										
					Prepared: 07/02/2019 Analyzed: 07/02/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	38		"	50.0		75.5	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 #1

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 B9G0205 - EPA 3580										
Blank (B9G0205-BLK2)										
					Prepared: 07/02/2019 Analyzed: 07/02/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	42		"	50.0		83.1	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 #1

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 B9G0205 - EPA 3580										
LCS (B9G0205-BS1)					Prepared: 07/02/2019 Analyzed: 07/02/2019					
Diesel (C10-C28)	834	50.0	mg/kg	1000		83.4	70-130			
Residual Range Organics (C28-C40)	773	200	"	1000		77.3	70-130			
Surrogate: o-Terphenyl	41		"	50.0		82.4	50-150			

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 Arvada CO 80003

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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 B9G0205 - EPA 3580

LCS (B9G0205-BS2)

Prepared: 07/02/2019 Analyzed: 07/02/2019

Diesel (C10-C28)	943	50.0	mg/kg	1000		94.3	70-130			
Residual Range Organics (C28-C40)	885	200	"	1000		88.5	70-130			
Surrogate: o-Terphenyl	47		"	50.0		94.5	50-150			

Origins Laboratory, Inc.



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 Arvada CO 80003

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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 B9G0205 - EPA 3580

Matrix Spike (B9G0205-MS1)	Source: Y907016-01			Prepared: 07/02/2019 Analyzed: 07/02/2019						
Diesel (C10-C28)	878	50.0	mg/kg	1000	ND	87.8	70-130			
Residual Range Organics (C28-C40)	802	200	"	1000	ND	80.2	70-130			
Surrogate: o-Terphenyl	41		"	50.0		82.9	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 #1

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 B9G0205 - EPA 3580

Matrix Spike (B9G0205-MS2)	Source: Y907063-01			Prepared: 07/02/2019 Analyzed: 07/02/2019						
Diesel (C10-C28)	981	50.0	mg/kg	1000	ND	98.1	70-130			
Residual Range Organics (C28-C40)	907	200	"	1000	ND	90.7	70-130			
Surrogate: o-Terphenyl	47		"	50.0		93.6	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 #1

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 B9G0205 - EPA 3580

Matrix Spike Dup (B9G0205-MSD1)	Source: Y907016-01			Prepared: 07/02/2019 Analyzed: 07/02/2019						
Diesel (C10-C28)	902	50.0	mg/kg	1000	ND	90.2	70-130	2.75	35	
Residual Range Organics (C28-C40)	847	200	"	1000	ND	84.7	70-130	5.46	35	
Surrogate: o-Terphenyl	43		"	50.0		86.4	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 #1

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 B9G0205 - EPA 3580

Matrix Spike Dup (B9G0205-MSD2)	Source: Y907063-01			Prepared: 07/02/2019 Analyzed: 07/02/2019						
Diesel (C10-C28)	985	50.0	mg/kg	1000	ND	98.5	70-130	0.381	35	
Residual Range Organics (C28-C40)	965	200	"	1000	ND	96.5	70-130	6.17	35	
Surrogate: o-Terphenyl	47		"	50.0		93.9	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 #1

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 B9G0207 - EPA 5030 (soil)

Blank (B9G0207-BLK1)

Prepared: 07/02/2019 Analyzed: 07/02/2019

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

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 B9G0207 - EPA 5030 (soil)

LCS (B9G0207-BS1)

Prepared: 07/02/2019 Analyzed: 07/02/2019

Benzene	0.105	0.002	mg/kg	0.100		105	70-130			
Toluene	0.092	0.002	"	0.100		92.0	70-130			
Ethylbenzene	0.089	0.002	"	0.100		89.2	70-130			
m,p-Xylene	0.184	0.004	"	0.200		91.9	70-130			
o-Xylene	0.096	0.002	"	0.100		95.5	70-130			
Naphthalene	0.105	0.008	"	0.100		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	70-130			

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

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

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 B9G0207 - EPA 5030 (soil)

Matrix Spike (B9G0207-MS1)	Source: Y907010-01			Prepared: 07/02/2019 Analyzed: 07/02/2019						
Benzene	0.098	0.002	mg/kg	0.100	ND	97.6	70-130			
Toluene	0.081	0.002	"	0.100	ND	81.4	70-130			
Ethylbenzene	0.079	0.002	"	0.100	ND	79.1	70-130			
m,p-Xylene	0.167	0.004	"	0.200	ND	83.5	70-130			
o-Xylene	0.092	0.002	"	0.100	ND	92.1	70-130			
Naphthalene	0.071	0.008	"	0.100	ND	70.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		119	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		108	70-130			

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

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

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 B9G0207 - EPA 5030 (soil)

Matrix Spike Dup (B9G0207-MSD1)	Source: Y907010-01			Prepared: 07/02/2019 Analyzed: 07/02/2019						
Benzene	0.094	0.002	mg/kg	0.100	ND	94.4	70-130	3.33	20	
Toluene	0.080	0.002	"	0.100	ND	80.0	70-130	1.71	20	
Ethylbenzene	0.079	0.002	"	0.100	ND	79.4	70-130	0.404	20	
m,p-Xylene	0.167	0.004	"	0.200	ND	83.5	70-130	0.00	20	
o-Xylene	0.089	0.002	"	0.100	ND	89.3	70-130	3.07	20	
Naphthalene	0.078	0.008	"	0.100	ND	77.8	70-130	9.79	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		122	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		108	70-130			

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

Brian Sulzberger
Project Number: 014219041
Project: KMG - Aristocrat 41-9 #1

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.

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.

Jen Pellegrini For Noelle Doyle Mathis, President



July 23, 2019

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Aristocrat 41-9 #1

Project Number - 014219041

Attached are your analytical results for KMG - Aristocrat 41-9 #1 received by Origins Laboratory, Inc. July 16, 2019. This project is associated with Origins project number Y907230-01.

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 #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S03@11'	Y907230-01	Soil	July 16, 2019 9:18	07/16/2019 16:36
S04@12'	Y907230-02	Soil	July 16, 2019 9:24	07/16/2019 16:36
E03@12'	Y907230-03	Soil	July 16, 2019 9:31	07/16/2019 16:36
E04@11'	Y907230-04	Soil	July 16, 2019 9:36	07/16/2019 16:36
N04@11'	Y907230-05	Soil	July 16, 2019 9:41	07/16/2019 16:36
N03@11'	Y907230-06	Soil	July 16, 2019 9:45	07/16/2019 16:36
W02@10'	Y907230-07	Soil	July 16, 2019 9:49	07/16/2019 16:36
W01@11'	Y907230-08	Soil	July 16, 2019 13:35	07/16/2019 16:36
B02@25'	Y907230-09	Soil	July 16, 2019 11:16	07/16/2019 16:36
B03@25'	Y907230-10	Soil	July 16, 2019 13:16	07/16/2019 16:36
B04@25'	Y907230-11	Soil	July 16, 2019 15:11	07/16/2019 16:36

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

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y907230 Client: LTE
 Client Project ID: Aristocrat 41-9 #1
 Checklist Completed by: JG Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 7/16/2019 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)
 Cooler Number/Temperature: 1 / 5.9 °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"/>			
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 (> 1/4 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 analytes 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: [Signature] (Project Manager)

Date/Time Reviewed: 7/16/19

Origins Laboratory, Inc.

Jen Pellegrini

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

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

S03@11'

7/16/2019 9:18:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907230-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9G1602	KDK	07/16/2019	07/16/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 67.5 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B9G1610	KDK	07/16/2019	07/16/2019	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 97.3 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.3 % 70-130 " " "

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

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

S04@12'

7/16/2019 9:24:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907230-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9G1602	KDK	07/16/2019	07/16/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 69.2 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B9G1610	KDK	07/16/2019	07/16/2019	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 95.7 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.0 % 70-130 " " "

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

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

E03@12'

7/16/2019 9:31:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907230-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9G1602	KDK	07/16/2019	07/16/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 71.9 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B9G1610	KDK	07/16/2019	07/16/2019	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 96.5 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.3 % 70-130 " " "

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 #1

E04@11'

7/16/2019 9:36:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y907230-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9G1602	KDK	07/16/2019	07/16/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 75.5 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B9G1610	KDK	07/16/2019	07/16/2019	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 96.3 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.9 % 70-130 " " "

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

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

N04@11'

7/16/2019 9:41:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907230-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9G1602	KDK	07/16/2019	07/16/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 67.4 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B9G1610	KDK	07/16/2019	07/16/2019	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 96.4 % 70-130 " " "

Surrogate: Toluene-d8 99.6 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 95.8 % 70-130 " " "

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 #1

N03@11'

7/16/2019 9:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y907230-06 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9G1602	KDK	07/16/2019	07/16/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 70.3 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B9G1610	KDK	07/16/2019	07/16/2019	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 97.8 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.0 % 70-130 " " "

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

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

W02@10'
7/16/2019 9:49:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907230-07 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9G1602	KDK	07/16/2019	07/16/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 69.4 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B9G1610	KDK	07/16/2019	07/16/2019	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 96.9 % 70-130 " " "
 Surrogate: Toluene-d8 100 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 96.5 % 70-130 " " "

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

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

W01@11'
7/16/2019 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907230-08 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9G1602	KDK	07/16/2019	07/16/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 66.6 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B9G1610	KDK	07/16/2019	07/16/2019	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 97.2 % 70-130 " " "
Surrogate: Toluene-d8 102 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 95.7 % 70-130 " " "

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

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

B02@25'

7/16/2019 11:16:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907230-09 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9G1602	KDK	07/16/2019	07/16/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 71.7 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	23.7	5.00	mg/kg	25	B9G1610	KDK	07/16/2019	07/16/2019	
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 95.9 % 70-130 " " "
 Surrogate: Toluene-d8 102 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.2 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	0.95		me/L	1	[none]		07/17/2019	07/22/2019	
Magnesium	0.46		"	"	"		"	"	
Sodium	10.53		"	"	"		"	"	

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 #1

B02@25'

7/16/2019 11:16:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907230-09 (Soil)

pH in Soil by EPA 9045D

pH	8.93		pH Units	1	B9G1612	OLAB	07/16/2019	07/16/2019	
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SAR by 20B Saturated Paste

SAR	12.54			1	[none]		07/17/2019	07/22/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.237	0.00500	mmhos/cm	1	B9G1613	OLAB	07/16/2019	07/16/2019	
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LT Environmental, Inc.
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 Arvada CO 80003

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

B03@25'

7/16/2019 1:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907230-10 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	48.2	25.0	mg/kg	1	B9G1602	KDK	07/16/2019	07/16/2019	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 67.1 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	36.6	5.00	mg/kg	25	B9G1610	KDK	07/16/2019	07/16/2019	
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	0.066	0.050	"	"	"	KDK	"	"	
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 95.4 % 70-130 " " "
 Surrogate: Toluene-d8 104 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.0 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	0.41		me/L	1	[none]		07/17/2019	07/22/2019	
Magnesium	0.16		"	"	"		"	"	
Sodium	13.49		"	"	"		"	"	

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

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

B03@25'

7/16/2019 1:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907230-10 (Soil)

pH in Soil by EPA 9045D

pH	9.26		pH Units	1	B9G1612	OLAB	07/16/2019	07/16/2019	
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SAR by 20B Saturated Paste

SAR	25.27			1	[none]		07/17/2019	07/22/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.303	0.00500	mmhos/cm	1	B9G1613	OLAB	07/16/2019	07/16/2019	
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LT Environmental, Inc.
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 Arvada CO 80003

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

B04@25'

7/16/2019 3:11:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907230-11 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9G1602	KDK	07/16/2019	07/16/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 67.8 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B9G1610	KDK	07/16/2019	07/16/2019	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 96.8 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.2 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	0.75		me/L	1	[none]		07/17/2019	07/22/2019	
Magnesium	0.27		"	"	"		"	"	
Sodium	10.48		"	"	"		"	"	

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

Brian Sulzberger
Project Number: 014219041
Project: KMG - Aristocrat 41-9 #1

B04@25'

7/16/2019 3:11:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907230-11 (Soil)

pH in Soil by EPA 9045D

pH	9.53		pH Units	1	B9G1612	OLAB	07/16/2019	07/16/2019	
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SAR by 20B Saturated Paste

SAR	14.67			1	[none]		07/17/2019	07/22/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.224	0.00500	mmhos/cm	1	B9G1613	OLAB	07/16/2019	07/16/2019	
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Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

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 B9G1602 - EPA 3580										
Blank (B9G1602-BLK1)										
					Prepared: 07/16/2019 Analyzed: 07/16/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	41		"	50.0		82.3	50-150			

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Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

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 B9G1602 - EPA 3580										
Blank (B9G1602-BLK2)										
					Prepared: 07/16/2019 Analyzed: 07/16/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	42		"	50.0		84.6	50-150			

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Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

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 B9G1602 - EPA 3580										
LCS (B9G1602-BS1)					Prepared: 07/16/2019 Analyzed: 07/16/2019					
Diesel (C10-C28)	870	50.0	mg/kg	1000		87.0	70-130			
Residual Range Organics (C28-C40)	881	200	"	1000		88.1	70-130			
Surrogate: o-Terphenyl	45		"	50.0		89.5	50-150			

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Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

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 B9G1602 - EPA 3580

LCS (B9G1602-BS2)

Prepared: 07/16/2019 Analyzed: 07/16/2019

Diesel (C10-C28)	855	50.0	mg/kg	1000		85.5	70-130			
Residual Range Organics (C28-C40)	863	200	"	1000		86.3	70-130			
Surrogate: o-Terphenyl	44		"	50.0		88.4	50-150			

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LT Environmental, Inc.
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Project Number: 014219041
Project: KMG - Aristocrat 41-9 #1

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 B9G1602 - EPA 3580

Matrix Spike (B9G1602-MS1)	Source: Y907217-01			Prepared: 07/16/2019 Analyzed: 07/16/2019						
Diesel (C10-C28)	1270	50.0	mg/kg	1000	562	70.5	70-130			
Residual Range Organics (C28-C40)	910	200	"	1000	205	70.5	70-130			
Surrogate: o-Terphenyl	33		"	50.0		65.3	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 B9G1602 - EPA 3580

Matrix Spike (B9G1602-MS2)	Source: Y907233-01			Prepared: 07/16/2019 Analyzed: 07/16/2019						
Diesel (C10-C28)	879	50.0	mg/kg	1000	ND	87.9	70-130			
Residual Range Organics (C28-C40)	895	200	"	1000	ND	89.5	70-130			
Surrogate: o-Terphenyl	41		"	50.0		81.4	50-150			

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 Project: KMG - Aristocrat 41-9 #1

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 B9G1602 - EPA 3580

Matrix Spike Dup (B9G1602-MSD1)	Source: Y907217-01			Prepared: 07/16/2019 Analyzed: 07/16/2019						
Diesel (C10-C28)	1340	50.0	mg/kg	1000	562	77.5	70-130	9.54	35	
Residual Range Organics (C28-C40)	1010	200	"	1000	205	80.3	70-130	13.0	35	
Surrogate: o-Terphenyl	51		"	50.0		103	50-150			

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Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

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 B9G1602 - EPA 3580

Matrix Spike Dup (B9G1602-MSD2)	Source: Y907233-01			Prepared: 07/16/2019 Analyzed: 07/16/2019						
Diesel (C10-C28)	935	50.0	mg/kg	1000	ND	93.5	70-130	6.17	35	
Residual Range Organics (C28-C40)	965	200	"	1000	ND	96.5	70-130	7.53	35	
Surrogate: o-Terphenyl	45		"	50.0		90.5	50-150			

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LT Environmental, Inc.
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Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

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 B9G1610 - EPA 5030 (soil)

Blank (B9G1610-BLK1)

Prepared: 07/16/2019 Analyzed: 07/16/2019

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.2	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 #1

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 B9G1610 - EPA 5030 (soil)										
Blank (B9G1610-BLK2)										
					Prepared: 07/16/2019 Analyzed: 07/16/2019					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.1	70-130			

Origins Laboratory, Inc.



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LT Environmental, Inc.
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 Arvada CO 80003

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

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 B9G1610 - EPA 5030 (soil)

LCS (B9G1610-BS1)

Prepared: 07/16/2019 Analyzed: 07/16/2019

Benzene	0.096	0.002	mg/kg	0.100		96.0	70-130			
Toluene	0.099	0.002	"	0.100		98.6	70-130			
Ethylbenzene	0.101	0.002	"	0.100		101	70-130			
m,p-Xylene	0.202	0.004	"	0.200		101	70-130			
o-Xylene	0.099	0.002	"	0.100		98.5	70-130			
Naphthalene	0.096	0.008	"	0.100		95.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.3	70-130			

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 #1

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 B9G1610 - EPA 5030 (soil)

LCS (B9G1610-BS2)

Prepared: 07/16/2019 Analyzed: 07/16/2019

Benzene	0.100	0.002	mg/kg	0.100		100	70-130			
Toluene	0.102	0.002	"	0.100		102	70-130			
Ethylbenzene	0.105	0.002	"	0.100		105	70-130			
m,p-Xylene	0.209	0.004	"	0.200		105	70-130			
o-Xylene	0.103	0.002	"	0.100		103	70-130			
Naphthalene	0.114	0.008	"	0.100		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.2	70-130			

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 #1

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 B9G1610 - EPA 5030 (soil)

Matrix Spike (B9G1610-MS1)	Source: Y907233-01			Prepared: 07/16/2019 Analyzed: 07/16/2019						
Benzene	2.31	0.050	mg/kg	2.50	ND	92.5	70-130			
Toluene	2.35	0.050	"	2.50	ND	93.9	70-130			
Ethylbenzene	2.40	0.050	"	2.50	ND	96.1	70-130			
m,p-Xylene	4.80	0.100	"	5.00	ND	96.0	70-130			
o-Xylene	2.36	0.050	"	2.50	ND	94.3	70-130			
Naphthalene	2.80	0.200	"	2.50	ND	112	70-130			
Surrogate: 1,2-Dichloroethane-d4	2.9		"	3.12		93.9	70-130			
Surrogate: Toluene-d8	3.1		"	3.12		100	70-130			
Surrogate: 4-Bromofluorobenzene	3.0		"	3.12		96.4	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 #1

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 B9G1610 - EPA 5030 (soil)

Matrix Spike (B9G1610-MS2)	Source: Y907233-02			Prepared: 07/16/2019 Analyzed: 07/16/2019						
Benzene	2.29	0.050	mg/kg	2.50	ND	91.6	70-130			
Toluene	2.34	0.050	"	2.50	ND	93.6	70-130			
Ethylbenzene	2.36	0.050	"	2.50	ND	94.2	70-130			
m,p-Xylene	4.75	0.100	"	5.00	ND	95.0	70-130			
o-Xylene	2.36	0.050	"	2.50	ND	94.3	70-130			
Naphthalene	2.76	0.200	"	2.50	ND	110	70-130			
Surrogate: 1,2-Dichloroethane-d4	2.9		"	3.12		93.5	70-130			
Surrogate: Toluene-d8	3.2		"	3.12		101	70-130			
Surrogate: 4-Bromofluorobenzene	3.0		"	3.12		96.5	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 #1

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 B9G1610 - EPA 5030 (soil)

Matrix Spike Dup (B9G1610-MSD1)	Source: Y907233-01			Prepared: 07/16/2019 Analyzed: 07/16/2019						
Benzene	2.27	0.050	mg/kg	2.50	ND	90.8	70-130	1.83	20	
Toluene	2.31	0.050	"	2.50	ND	92.3	70-130	1.72	20	
Ethylbenzene	2.33	0.050	"	2.50	ND	93.1	70-130	3.15	20	
m,p-Xylene	4.66	0.100	"	5.00	ND	93.2	70-130	2.89	20	
o-Xylene	2.32	0.050	"	2.50	ND	92.7	70-130	1.73	20	
Naphthalene	2.74	0.200	"	2.50	ND	110	70-130	2.20	20	
Surrogate: 1,2-Dichloroethane-d4	2.9		"	3.12		94.0	70-130			
Surrogate: Toluene-d8	3.1		"	3.12		100	70-130			
Surrogate: 4-Bromofluorobenzene	3.0		"	3.12		96.3	70-130			

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 #1

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 B9G1610 - EPA 5030 (soil)

Matrix Spike Dup (B9G1610-MSD2)	Source: Y907233-02			Prepared: 07/16/2019 Analyzed: 07/16/2019						
Benzene	2.29	0.050	mg/kg	2.50	ND	91.8	70-130	0.196	20	
Toluene	2.33	0.050	"	2.50	ND	93.1	70-130	0.557	20	
Ethylbenzene	2.34	0.050	"	2.50	ND	93.7	70-130	0.553	20	
m,p-Xylene	4.72	0.100	"	5.00	ND	94.5	70-130	0.517	20	
o-Xylene	2.34	0.050	"	2.50	ND	93.6	70-130	0.745	20	
Naphthalene	2.72	0.200	"	2.50	ND	109	70-130	1.59	20	
Surrogate: 1,2-Dichloroethane-d4	2.9		"	3.12		93.7	70-130			
Surrogate: Toluene-d8	3.2		"	3.12		101	70-130			
Surrogate: 4-Bromofluorobenzene	3.1		"	3.12		98.3	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 #1

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.

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.

Jen Pellegrini For Noelle Doyle Mathis, President



July 23, 2019

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Aristocrat 41-9 #1

Project Number - 014219041

Attached are your analytical results for KMG - Aristocrat 41-9 #1 received by Origins Laboratory, Inc. July 17, 2019. This project is associated with Origins project number Y907249-01.

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 #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW01	Y907249-01	Water	July 17, 2019 9:46	07/17/2019 16:30
B05@25'	Y907249-02	Soil	July 17, 2019 13:54	07/17/2019 16:30

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.

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 #1

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

Sample Receipt Checklist

Origins Work Order: Y907249 Client: LTE
 Client Project ID: Aristocrat 41-9 #1

Checklist Completed by: JG Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 7/17/2019 Airbill #: N/A

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

Cooler Number/Temperature: 1 15.2 °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"/>			
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) 7/17/19
 Date/Time Reviewed

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 #1

GW01

7/17/2019 9:46:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907249-01 (Water)

BTEX by EPA 8260D

Benzene	ND	4.00	ug/L	4	B9G1707	KDK	07/17/2019	07/17/2019	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	6.68	4.00	"	"	"	KDK	"	"	
Xylenes, total	78.4	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %	70-130			"	"	"	"	

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 #1

B05@25'

7/17/2019 1:54:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907249-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9G1703	KDK	07/17/2019	07/17/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 70.1 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B9G1702	KDK	"	07/17/2019	U
Benzene	ND	0.050	"	"	"	KDK	"	"	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U
Naphthalene	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "
 Surrogate: Toluene-d8 102 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 99.2 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	0.40		me/L	1	[none]		07/18/2019	07/22/2019	
Magnesium	0.20		"	"	"		"	"	
Sodium	8.62		"	"	"		"	"	

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 #1

B05@25'

7/17/2019 1:54:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y907249-02 (Soil)

pH in Soil by EPA 9045D

pH	9.35		pH Units	1	B9G1709	OLAB	07/17/2019	07/17/2019	
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SAR by 20B Saturated Paste

SAR	15.74			1	[none]		07/18/2019	07/22/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.268	0.00503	mmhos/cm	1	B9G1710	OLAB	07/17/2019	07/17/2019	
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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

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 B9G1702 - EPA 5030 (soil)

Blank (B9G1702-BLK1)

Prepared: 07/17/2019 Analyzed: 07/17/2019

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	110		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	100		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.5		70-130			

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LT Environmental, Inc.
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Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

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 B9G1702 - EPA 5030 (soil)

LCS (B9G1702-BS1)

Prepared: 07/17/2019 Analyzed: 07/17/2019

Benzene	0.102	0.002	mg/kg	0.100		102	70-130			
Toluene	0.104	0.002	"	0.100		104	70-130			
Ethylbenzene	0.101	0.002	"	0.100		101	70-130			
m,p-Xylene	0.220	0.004	"	0.200		110	70-130			
o-Xylene	0.100	0.002	"	0.100		100	70-130			
Naphthalene	0.082	0.008	"	0.100		82.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	70-130			

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 Project: KMG - Aristocrat 41-9 #1

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 B9G1702 - EPA 5030 (soil)

Matrix Spike (B9G1702-MS1)	Source: Y907201-01			Prepared: 07/17/2019 Analyzed: 07/17/2019						
Benzene	0.097	0.002	mg/kg	0.100	ND	97.5	70-130			
Toluene	0.097	0.002	"	0.100	ND	96.7	70-130			
Ethylbenzene	0.098	0.002	"	0.100	ND	97.5	70-130			
m,p-Xylene	0.210	0.004	"	0.200	ND	105	70-130			
o-Xylene	0.097	0.002	"	0.100	ND	97.3	70-130			
Naphthalene	0.088	0.008	"	0.100	0.004	83.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	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 #1

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 B9G1702 - EPA 5030 (soil)

Matrix Spike Dup (B9G1702-MSD1)	Source: Y907201-01			Prepared: 07/17/2019 Analyzed: 07/17/2019						
Benzene	0.091	0.002	mg/kg	0.100	ND	91.3	70-130	6.53	20	
Toluene	0.091	0.002	"	0.100	ND	90.6	70-130	6.54	20	
Ethylbenzene	0.090	0.002	"	0.100	ND	90.5	70-130	7.49	20	
m,p-Xylene	0.193	0.004	"	0.200	ND	96.5	70-130	8.55	20	
o-Xylene	0.090	0.002	"	0.100	ND	90.1	70-130	7.64	20	
Naphthalene	0.097	0.008	"	0.100	0.004	93.0	70-130	10.1	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	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 #1

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 B9G1703 - EPA 3580										
Blank (B9G1703-BLK1)										
					Prepared: 07/17/2019 Analyzed: 07/17/2019					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	36		"	50.0		72.6	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 #1

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 B9G1703 - EPA 3580										
LCS (B9G1703-BS1)					Prepared: 07/17/2019 Analyzed: 07/17/2019					
Diesel (C10-C28)	895	50.0	mg/kg	1000		89.5	70-130			
Residual Range Organics (C28-C40)	883	200	"	1000		88.3	70-130			
Surrogate: o-Terphenyl	46		"	50.0		91.1	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 #1

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 B9G1703 - EPA 3580

Matrix Spike (B9G1703-MS1)	Source: Y907244-01			Prepared: 07/17/2019 Analyzed: 07/17/2019						
Diesel (C10-C28)	1050	50.0	mg/kg	1000	78.8	96.8	70-130			
Residual Range Organics (C28-C40)	1100	200	"	1000	128	97.3	70-130			
Surrogate: o-Terphenyl	48		"	50.0		96.8	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 #1

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 B9G1703 - EPA 3580

Matrix Spike Dup (B9G1703-MSD1)	Source: Y907244-01			Prepared: 07/17/2019 Analyzed: 07/17/2019						
Diesel (C10-C28)	956	50.0	mg/kg	1000	78.8	87.7	70-130	9.77	35	
Residual Range Organics (C28-C40)	1010	200	"	1000	128	88.5	70-130	9.47	35	
Surrogate: o-Terphenyl	43		"	50.0		85.2	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 #1

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 B9G1707 - EPA 5030B (Water)

Blank (B9G1707-BLK1)

Prepared: 07/17/2019 Analyzed: 07/17/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		105	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	70-130			

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 #1

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 B9G1707 - EPA 5030B (Water)

LCS (B9G1707-BS1)

Prepared: 07/17/2019 Analyzed: 07/17/2019

Benzene	48.6	1.00	ug/L	50.0		97.3	70-130			
Toluene	48.9	1.00	"	50.0		97.9	70-130			
Ethylbenzene	47.6	1.00	"	50.0		95.1	70-130			
m,p-Xylene	94.1	2.00	"	100		94.1	70-130			
o-Xylene	46.8	1.00	"	50.0		93.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.2	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		102	70-130			

Origins Laboratory, Inc.



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LT Environmental, Inc.
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 Arvada CO 80003

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

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 B9G1707 - EPA 5030B (Water)

Matrix Spike (B9G1707-MS1)	Source: Y907251-01			Prepared: 07/17/2019 Analyzed: 07/17/2019						
Benzene	46.9	1.00	ug/L	50.0	ND	93.7	70-130			
Toluene	61.4	1.00	"	50.0	17.7	87.4	70-130			
Ethylbenzene	46.1	1.00	"	50.0	ND	92.2	70-130			
m,p-Xylene	92.2	2.00	"	100	ND	92.2	70-130			
o-Xylene	46.1	1.00	"	50.0	ND	92.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.5	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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 #1

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 B9G1707 - EPA 5030B (Water)

Matrix Spike Dup (B9G1707-MSD1)	Source: Y907251-01			Prepared: 07/17/2019 Analyzed: 07/17/2019						
Benzene	45.1	1.00	ug/L	50.0	ND	90.2	70-130	3.89	20	
Toluene	60.5	1.00	"	50.0	17.7	85.6	70-130	1.44	20	
Ethylbenzene	43.9	1.00	"	50.0	ND	87.7	70-130	5.00	20	
m,p-Xylene	87.5	2.00	"	100	ND	87.5	70-130	5.20	20	
o-Xylene	44.5	1.00	"	50.0	ND	89.1	70-130	3.51	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.6	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	70-130			

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 #1

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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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 B9G1709 - NO PREP

Duplicate (B9G1709-DUP1)

Source: Y907249-02

Prepared: 07/17/2019 Analyzed: 07/17/2019

pH	9.34		pH Units		9.35			0.107	25	
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Batch B9G1710 - NO PREP

Blank (B9G1710-BLK1)

Prepared: 07/17/2019 Analyzed: 07/17/2019

Specific Conductance (EC)	0.00190	0.00500	mmhos/cm							
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Duplicate (B9G1710-DUP1)

Source: Y907249-02

Prepared: 07/17/2019 Analyzed: 07/17/2019

Specific Conductance (EC)	0.256	0.00500	mmhos/cm		0.268			4.65	25	
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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014219041
Project: KMG - Aristocrat 41-9 #1

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.

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.



October 29, 2019

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - Aristocrat 41-9 #1

Project Number - 014219041

Attached are your analytical results for KMG - Aristocrat 41-9 #1 received by Origins Laboratory, Inc. October 25, 2019. This project is associated with Origins project number Y910400-01.

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 #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y910400-01	Water	October 25, 2019 11:30	10/25/2019 15:34
MW02	Y910400-02	Water	October 25, 2019 11:45	10/25/2019 15:34
MW03	Y910400-03	Water	October 25, 2019 11:55	10/25/2019 15:34
MW04	Y910400-04	Water	October 25, 2019 12:07	10/25/2019 15:34
MW05	Y910400-05	Water	October 25, 2019 12:23	10/25/2019 15:34
MW06	Y910400-06	Water	October 25, 2019 12:35	10/25/2019 15:34
MW07	Y910400-07	Water	October 25, 2019 12:47	10/25/2019 15:34
MW08	Y910400-08	Water	October 25, 2019 13:01	10/25/2019 15:34
MW09	Y910400-09	Water	October 25, 2019 13:15	10/25/2019 15:34
MW10	Y910400-10	Water	October 25, 2019 13:26	10/25/2019 15:34
MW11	Y910400-11	Water	October 25, 2019 13:35	10/25/2019 15:34

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

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

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Y910400 1/2

page | of B

ORIGINS
 LABORATORY, INC

Client: LT Environmental Inc
 Address: 4600 W 60th Ave, Arvada, CO 80003
 Project Manager: Brian Sulzberger
 Project Name: Aristocrat 41-9-1
 Project Number: 014219041
 Telephone Number: 303-453-9788
 Email Address: KMG Group
 Samples Collected By: Te

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summ #			Other
MW01	10/05/19	1130	3	X				X					
MW02		1145											
MW03		1155											
MW04		1207											
MW05		1223											
MW06		1235											
MW07		1247											
MW08		1301											
MW09		1315											
MW10		1326											
Relinquished By:		Date:	Time:	Received By:				Time:	Date:	Time:	Turnaround Time:		
<i>Jef</i>	10/05/19	1534	1534	<i>[Signature]</i>				1534	10-25-19	1534	Same Day <input type="checkbox"/>	24 Hr <input type="checkbox"/>	
Relinquished By:		Date:	Time:	Received By:				Time:	Date:	Time:	Turnaround Time:		
											48 Hr <input type="checkbox"/>	72 Hr <input checked="" type="checkbox"/>	
											Standard <input type="checkbox"/>		

Temp Received - 13.9 Date Results Needed

Origins Laboratory, Inc.

Jef Pellegrini

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

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y910400

Client: LTE

Client Project ID: Aristocrat 41-9-1

Checklist Completed by: JG KDK

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

Date/time completed: 10 / 28 / 2019

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

Cooler Number/Temperature: 1 / 13.9 °C _____ / _____ °C _____ / _____ °C (Describe)

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⁾ ?		-		Same day
Is there ice present (document if blue ice is used)	-			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			-	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			-	
Were all samples received intact ⁽¹⁾ ?	-			
Was adequate sample volume provided ⁽¹⁾ ?	-			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?			-	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	-			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	-			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	-			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	-			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		-		
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)			-	
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.

JG
 Reviewed by (Project Manager)

10/29/19
 Date/Time Reviewed

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 #1

MW01
10/25/2019 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y910400-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9J2803	KDK	10/28/2019	10/28/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	3.36	1.00	"	"	"	KDK	"	"	
Xylenes, total	11.4	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"		
Surrogate: Toluene-d8	103 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"		

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 #1

MW02
10/25/2019 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y910400-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9J2803	KDK	10/28/2019	10/28/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	3.16	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"		
Surrogate: Toluene-d8	102 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	97.3 %	70-130			"	"	"		

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 #1

MW03
10/25/2019 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y910400-03 (Water)

BTEX by EPA 8260D

Benzene	1.32	1.00	ug/L	1	B9J2803	KDK	10/28/2019	10/28/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	171	1.00	"	"	"	KDK	"	"	
Xylenes, total	1420	10.0	"	10	"	KDK	"	10/29/2019	

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"		10/28/2019	
Surrogate: Toluene-d8	103 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	99.8 %	70-130			"	"		"	

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 #1

MW04

10/25/2019 12:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y910400-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9J2803	KDK	10/28/2019	10/28/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.9 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 4600 West 60th Avenue
 Arvada CO 80003

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

MW05
10/25/2019 12:23:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y910400-05 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9J2803	KDK	10/28/2019	10/28/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	6.48	1.00	"	"	"	KDK	"	"	
Xylenes, total	50.5	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"		
Surrogate: Toluene-d8	102 %	70-130			"	"	"		
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130			"	"	"		

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 #1

MW06

10/25/2019 12:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y910400-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9J2803	KDK	10/28/2019	10/28/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	2.51	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	"	

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 #1

MW07

10/25/2019 12:47:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y910400-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9J2803	KDK	10/28/2019	10/28/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	"	

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 #1

MW08

10/25/2019 1:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y910400-08 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9J2803	KDK	10/28/2019	10/28/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.0 %	70-130			"	"	"	"	

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 #1

MW09

10/25/2019 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y910400-09 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9J2805	KDK	10/28/2019	10/28/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	84.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	"	

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

Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

MW10

10/25/2019 1:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y910400-10 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9J2805	KDK	10/28/2019	10/28/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	88.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.0 %	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 #1

MW11

10/25/2019 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y910400-11 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9J2805	KDK	10/28/2019	10/28/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	84.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	92.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	90.7 %	70-130			"	"	"	"	

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Brian Sulzberger
 Project Number: 014219041
 Project: KMG - Aristocrat 41-9 #1

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 B9J2803 - EPA 5030B (Water)

Blank (B9J2803-BLK1)

Prepared: 10/28/2019 Analyzed: 10/28/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		105	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	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 B9J2803 - EPA 5030B (Water)

LCS (B9J2803-BS1)

Prepared: 10/28/2019 Analyzed: 10/28/2019

Benzene	58.5	1.00	ug/L	50.0		117	70-130			
Toluene	55.9	1.00	"	50.0		112	70-130			
Ethylbenzene	56.5	1.00	"	50.0		113	70-130			
m,p-Xylene	112	2.00	"	100		112	70-130			
o-Xylene	55.4	1.00	"	50.0		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.9	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 B9J2803 - EPA 5030B (Water)

Matrix Spike (B9J2803-MS1)	Source: Y910393-03			Prepared: 10/28/2019 Analyzed: 10/28/2019						
Benzene	63.5	1.00	ug/L	50.0	ND	127	70-130			
Toluene	61.9	1.00	"	50.0	ND	124	70-130			
Ethylbenzene	65.2	1.00	"	50.0	0.190	130	70-130			
m,p-Xylene	175	2.00	"	100	0.180	175	70-130			QM-07
o-Xylene	65.7	1.00	"	50.0	0.160	131	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.1	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.6	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 B9J2803 - EPA 5030B (Water)

Matrix Spike Dup (B9J2803-MSD1)	Source: Y910393-03			Prepared: 10/28/2019 Analyzed: 10/28/2019						
Benzene	61.8	1.00	ug/L	50.0	ND	124	70-130	2.78	20	
Toluene	60.0	1.00	"	50.0	ND	120	70-130	3.25	20	
Ethylbenzene	60.2	1.00	"	50.0	0.190	120	70-130	7.95	20	
m,p-Xylene	119	2.00	"	100	0.180	118	70-130	38.7	20	QR-03
o-Xylene	58.0	1.00	"	50.0	0.160	116	70-130	12.4	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.2	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.4	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 B9J2805 - EPA 5030B (Water)

Blank (B9J2805-BLK1)

Prepared: 10/28/2019 Analyzed: 10/28/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	51		"	62.5	81.3		70-130			
Surrogate: Toluene-d8	66		"	62.5	105		70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5	95.1		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 B9J2805 - EPA 5030B (Water)

LCS (B9J2805-BS1)

Prepared: 10/28/2019 Analyzed: 10/28/2019

Benzene	46.6	1.00	ug/L	50.0		93.3	70-130			
Toluene	56.9	1.00	"	50.0		114	70-130			
Ethylbenzene	49.8	1.00	"	50.0		99.6	70-130			
m,p-Xylene	101	2.00	"	100		101	70-130			
o-Xylene	49.3	1.00	"	50.0		98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	47		"	62.5		75.2	70-130			
Surrogate: Toluene-d8	73		"	62.5		116	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.3	70-130			

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Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9J2805 - EPA 5030B (Water)

Matrix Spike (B9J2805-MS1)	Source: Y910400-09			Prepared: 10/28/2019 Analyzed: 10/28/2019						
Benzene	44.7	1.00	ug/L	50.0	ND	89.5	70-130			
Toluene	48.0	1.00	"	50.0	ND	96.1	70-130			
Ethylbenzene	42.4	1.00	"	50.0	ND	84.7	70-130			
m,p-Xylene	85.1	2.00	"	100	ND	85.1	70-130			
o-Xylene	42.3	1.00	"	50.0	ND	84.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	49		"	62.5		79.1	70-130			
Surrogate: Toluene-d8	65		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	55		"	62.5		87.3	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B9J2805 - EPA 5030B (Water)

Matrix Spike Dup (B9J2805-MSD1)	Source: Y910400-09			Prepared: 10/28/2019 Analyzed: 10/28/2019						
Benzene	46.4	1.00	ug/L	50.0	ND	92.7	70-130	3.58	20	
Toluene	57.4	1.00	"	50.0	ND	115	70-130	17.8	20	
Ethylbenzene	45.2	1.00	"	50.0	ND	90.4	70-130	6.51	20	
m,p-Xylene	91.1	2.00	"	100	ND	91.1	70-130	6.80	20	
o-Xylene	44.5	1.00	"	50.0	ND	89.1	70-130	5.11	20	
Surrogate: 1,2-Dichloroethane-d4	48		"	62.5		76.2	70-130			
Surrogate: Toluene-d8	77		"	62.5		122	70-130			
Surrogate: 4-Bromofluorobenzene	55		"	62.5		88.6	70-130			

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Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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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