



December 10, 2020

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - King Addie M GU 1

Project Number - 90257194

Attached are your analytical results for KMG - King Addie M GU 1 received by Origins Laboratory, Inc. December 07, 2020. This project is associated with Origins project number Y012102-01.

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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@5'	Y012102-01	Soil	December 7, 2020 14:10	12/07/2020 16:00
N01@4'	Y012102-02	Soil	December 7, 2020 14:13	12/07/2020 16:00
S01@4'	Y012102-03	Soil	December 7, 2020 14:16	12/07/2020 16:00
E01@4'	Y012102-04	Soil	December 7, 2020 14:19	12/07/2020 16:00
W01@4'	Y012102-05	Soil	December 7, 2020 14:22	12/07/2020 16:00

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y01262

Client: Tasman
 Client Project ID: King Addie M GU 1

Checklist Completed by: JG

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

Date/time completed: 12/7/20

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1, 8.1 °C / _____ °C / _____ °C (Describe) / _____ °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>Some Dry</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: 12/7/20

Origins Laboratory, Inc.

[Signature]

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B01@5'
12/7/2020 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012102-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	265	25.0	mg/kg	1	B0L0708	TEM	12/07/2020	12/07/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U
<i>Surrogate: o-Terphenyl</i>	102 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	1300	50.0	mg/kg	250	B0L0704	TEM	12/07/2020	12/07/2020	
Benzene	0.624	0.050	"	25	"	TEM	"	12/07/2020	
Toluene	0.106	0.050	"	"	"	TEM	"	"	
Ethylbenzene	1.26	0.050	"	"	"	TEM	"	"	
Xylenes, total	24.5	0.498	"	250	"	TEM	"	12/07/2020	
Naphthalene	0.480	0.200	"	25	"	TEM	"	12/07/2020	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	98.5 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	111 %	70-130			"	"	"	12/07/2020	
<i>Surrogate: 4-Bromofluorobenzene</i>	116 %	70-130			"	"	"	12/07/2020	

Metals (Saturated Paste Prep)

Calcium	0.95		me/L	1	[none]		12/08/2020	12/10/2020	
Magnesium	0.39		"	"	"		"	"	
Sodium	10.03		"	"	"		"	"	

pH in Soil by EPA 9045D

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B01@5'

12/7/2020 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y012102-01 (Soil)**

pH in Soil by EPA 9045D

pH	8.21		pH Units	1	B0L0711	DJL	12/07/2020	12/07/2020	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	12.25			1	[none]		12/08/2020	12/10/2020	
-----	-------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.246	0.00505	mmhos/cm	1	B0L0712	DJL	12/07/2020	12/07/2020	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

N01@4'

12/7/2020 2:13:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012102-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	2220	25.0	mg/kg	1	B0L0708	TEM	12/07/2020	12/07/2020	
Residual Range Organics (C28-C40)	1420	100	"	"	"	TEM	"	"	

Surrogate: *o*-Terphenyl 393 % 50-150 " " " S-04

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	85.9	5.00	mg/kg	25	B0L0704	TEM	12/07/2020	12/07/2020	
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "

Surrogate: Toluene-d8 103 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 87.9 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S01@4'

12/7/2020 2:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012102-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	1470	25.0	mg/kg	1	B0L0708	TEM	12/07/2020	12/07/2020	
Residual Range Organics (C28-C40)	625	100	"	"	"	TEM	"	"	

Surrogate: *o*-Terphenyl 120 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	1270	50.0	mg/kg	250	B0L0704	TEM	12/07/2020	12/07/2020	
Benzene	0.324	0.050	"	25	"	TEM	"	12/07/2020	
Toluene	0.095	0.050	"	"	"	TEM	"	"	
Ethylbenzene	0.136	0.050	"	"	"	TEM	"	"	
Xylenes, total	0.904	0.050	"	"	"	TEM	"	"	
Naphthalene	1.34	0.200	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "
 Surrogate: Toluene-d8 111 % 70-130 " " 12/07/2020
 Surrogate: 4-Bromofluorobenzene 129 % 70-130 " " 12/07/2020

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

E01@4'
12/7/2020 2:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012102-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	458	25.0	mg/kg	1	B0L0708	TEM	12/07/2020	12/07/2020	
Residual Range Organics (C28-C40)	269	100	"	"	"	TEM	"	"	
<i>Surrogate: o-Terphenyl</i>	104 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	84.1	5.00	mg/kg	25	B0L0704	TEM	12/07/2020	12/07/2020	
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	100 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	106 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	87.2 %	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

W01@4'
12/7/2020 2:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012102-05 (Soil)

DRO/ORO by EPA 8015D


Diesel (C10-C28)	ND	25.0	mg/kg	1	B0L0708	TEM	12/07/2020	12/07/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 82.3 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0L0704	TEM	12/07/2020	12/07/2020	U
Benzene	ND	0.050	"	"	"	TEM	"	12/07/2020	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " 12/07/2020
 Surrogate: Toluene-d8 106 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 87.0 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L0704 - EPA 5030 (soil)

Blank (B0L0704-BLK1)

Prepared: 12/07/2020 Analyzed: 12/07/2020

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	0.15		"	0.125	116		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	104		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	106		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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L0704 - EPA 5030 (soil)

LCS (B0L0704-BS1)

Prepared: 12/07/2020 Analyzed: 12/07/2020

Benzene	0.045	0.002	mg/kg	0.0500		89.0	70-130			
Toluene	0.046	0.002	"	0.0500		92.0	70-130			
Ethylbenzene	0.050	0.002	"	0.0500		101	70-130			
m,p-Xylene	0.105	0.004	"	0.100		105	70-130			
o-Xylene	0.051	0.002	"	0.0500		102	70-130			
Naphthalene	0.047	0.008	"	0.0500		93.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L0704 - EPA 5030 (soil)

Matrix Spike (B0L0704-MS1)	Source: Y012089-01			Prepared: 12/07/2020 Analyzed: 12/07/2020						
Benzene	0.046	0.002	mg/kg	0.0500	ND	92.4	70-130			
Toluene	0.045	0.002	"	0.0500	ND	89.4	70-130			
Ethylbenzene	0.047	0.002	"	0.0500	ND	93.9	70-130			
m,p-Xylene	0.098	0.004	"	0.100	ND	98.4	70-130			
o-Xylene	0.048	0.002	"	0.0500	ND	96.5	70-130			
Naphthalene	0.046	0.008	"	0.0500	0.001	90.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.16		"	0.125		124	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L0704 - EPA 5030 (soil)

Matrix Spike Dup (B0L0704-MSD1)	Source: Y012089-01			Prepared: 12/07/2020 Analyzed: 12/07/2020						
Benzene	0.049	0.002	mg/kg	0.0500	ND	98.6	70-130	6.53	20	
Toluene	0.048	0.002	"	0.0500	ND	96.3	70-130	7.50	20	
Ethylbenzene	0.050	0.002	"	0.0500	ND	99.7	70-130	5.95	20	
m,p-Xylene	0.105	0.004	"	0.100	ND	105	70-130	6.64	20	
o-Xylene	0.052	0.002	"	0.0500	ND	104	70-130	7.89	20	
Naphthalene	0.100	0.008	"	0.0500	0.001	199	70-130	74.3	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		124	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L0708 - EPA 3580										
Blank (B0L0708-BLK1)										
					Prepared: 12/07/2020 Analyzed: 12/07/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	25.0		97.5	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L0708 - EPA 3580

LCS (B0L0708-BS1)

Prepared: 12/07/2020 Analyzed: 12/07/2020

Diesel (C10-C28)	1110	50.0	mg/kg	1000		111	70-130			
Residual Range Organics (C28-C40)	1180	200	"	1000		118	70-130			
Surrogate: <i>o</i> -Terphenyl	68		"	50.0		136	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L0708 - EPA 3580

Matrix Spike (B0L0708-MS1)	Source: Y012092-16			Prepared: 12/07/2020 Analyzed: 12/07/2020						
Diesel (C10-C28)	907	50.0	mg/kg	1000	ND	90.7	70-130			
Residual Range Organics (C28-C40)	971	200	"	1000	ND	97.1	70-130			
Surrogate: o-Terphenyl	49		"	50.0		98.7	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L0708 - EPA 3580

Matrix Spike Dup (B0L0708-MSD1)	Source: Y012092-16			Prepared: 12/07/2020 Analyzed: 12/07/2020						
Diesel (C10-C28)	1050	50.0	mg/kg	1000	ND	105	70-130	14.4	35	
Residual Range Organics (C28-C40)	1160	200	"	1000	ND	116	70-130	18.1	35	
<i>Surrogate: o-Terphenyl</i>	<i>57</i>		<i>"</i>	<i>50.0</i>		<i>113</i>	<i>50-150</i>			

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

Notes and Definitions

U Sample is Non-Detect.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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.



December 17, 2020

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - King Addie M GU 1

Project Number - 90257194

Attached are your analytical results for KMG - King Addie M GU 1 received by Origins Laboratory, Inc. December 14, 2020. This project is associated with Origins project number Y012205-01.

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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B02@12'	Y012205-01	Soil	December 14, 2020 15:02	12/14/2020 16:30
N02@10'	Y012205-02	Soil	December 14, 2020 15:04	12/14/2020 16:30
S02@10'	Y012205-03	Soil	December 14, 2020 15:06	12/14/2020 16:30
E02@10'	Y012205-04	Soil	December 14, 2020 15:08	12/14/2020 16:30
W02@10'	Y012205-05	Soil	December 14, 2020 15:10	12/14/2020 16:30
GW01	Y012205-06	Water	December 14, 2020 15:00	12/14/2020 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

www.originslaboratory.com

902205

page of

Client: Oxy/Hammann
 Address: _____
 Telephone Number: _____
 Email Address: WJahn@tasman-geo.com

Project Manager: Mike Jahn
 Project Name: King Addie M GU 1
 Project Number: 90257194
 Samples Collected By: _____

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	As Summ #	Other	D/As/O/As	PH		DR	DR EX
1502-012'	12-14-20	1508	2	X				X				X	X	X	PH 7.6	1
1502-010'		1504	1									X	X	X		2
1502-010'		1506	1									X	X	X	2000	3
1502-010'		1508	1									X	X	X	2000	4
1502-010'		1510	1									X	X	X	2000	5
GW01		1500	3					X							2000	6
																7
																8
																9
																10
Relinquished By: <u>WJ</u>	Date: <u>12-14-20</u>	Time: _____	Received By: _____	Date: <u>12-14-20</u>	Time: <u>1630</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr	Standard <input checked="" type="checkbox"/>									
Relinquished By: <u>BL</u>	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____											

Date Results Needed

6.5

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

Origins Laboratory

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

Sample Receipt Checklist


Origins Work Order: Y012205 Client: Tasman
 Client Project ID: King Addie M GU 1
 Checklist Completed by: JG Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 12/14/20 Airbill #: NTA
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 6.8 °C _____ °C _____ °C (Describe) _____ °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 past narrative.

Reviewed by (Project Manager)

12/14/20
 Date/Time Reviewed

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B02@12'
12/14/2020 3:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012205-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	39.3	25.0	mg/kg	1	B0L1405	TEM	12/14/2020	12/14/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U
<i>Surrogate: o-Terphenyl</i>	96.2 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	439	5.00	mg/kg	25	B0L1404	TEM	12/14/2020	12/14/2020	
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	0.954	0.050	"	"	"	TEM	"	"	
Xylenes, total	15.1	0.050	"	"	"	TEM	"	"	
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	83.3 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	131 %	70-130			"	"	"	"	S-04
<i>Surrogate: 4-Bromofluorobenzene</i>	105 %	70-130			"	"	"	"	

Metals (Saturated Paste Prep)

Calcium	2.90		me/L	1	[none]		12/15/2020	12/17/2020	
Magnesium	1.44		"	"	"		"	"	
Sodium	5.62		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B02@12'

12/14/2020 3:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y012205-01 (Soil)**

pH in Soil by EPA 9045D

pH	7.92		pH Units	1	B0L1409	DJL	12/14/2020	12/14/2020	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	3.82			1	[none]		12/15/2020	12/17/2020	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.108	0.00502	mmhos/cm	1	B0L1410	DJL	12/14/2020	12/14/2020	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

N02@10'

12/14/2020 3:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012205-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	1360	25.0	mg/kg	1	B0L1405	TEM	12/14/2020	12/14/2020	
Residual Range Organics (C28-C40)	177	100	"	"	"	TEM	"	"	
Surrogate: <i>o</i> -Terphenyl	132 %	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S02@10'

12/14/2020 3:06:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y012205-03 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	372	25.0	mg/kg	1	B0L1405	TEM	12/14/2020	12/14/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U
<i>Surrogate: o-Terphenyl</i>	99.6 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	1600	50.0	mg/kg	250	B0L1404	TEM	12/14/2020	12/14/2020	
Benzene	0.505	0.498	"	"	"	TEM	"	"	
Toluene	0.114	0.050	"	25	"	TEM	"	12/15/2020	
Ethylbenzene	1.92	0.498	"	250	"	TEM	"	12/14/2020	
Xylenes, total	25.5	0.498	"	"	"	TEM	"	"	
Naphthalene	0.691	0.200	"	25	"	TEM	"	12/15/2020	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	81.8 %	70-130			"	"	"	12/14/2020	
<i>Surrogate: Toluene-d8</i>	109 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	107 %	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

E02@10'

12/14/2020 3:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y012205-04 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	64.4	25.0	mg/kg	1	B0L1405	TEM	12/14/2020	12/14/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 78.4 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	49.1	5.00	mg/kg	25	B0L1404	TEM	12/14/2020	12/15/2020	
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	0.188	0.050	"	"	"	TEM	"	"	
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 84.1 % 70-130 " " "
 Surrogate: Toluene-d8 105 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 101 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

W02@10'
12/14/2020 3:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012205-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	465	25.0	mg/kg	1	B0L1405	TEM	12/14/2020	12/14/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 92.8 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	1550	50.0	mg/kg	250	B0L1404	TEM	12/14/2020	12/14/2020	
Benzene	0.294	0.050	"	25	"	TEM	"	12/15/2020	
Toluene	0.142	0.050	"	"	"	TEM	"	"	
Ethylbenzene	2.91	0.498	"	250	"	TEM	"	12/14/2020	
Xylenes, total	28.3	0.498	"	"	"	TEM	"	12/15/2020	
Naphthalene	1.04	0.200	"	25	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4 82.5 % 70-130 " " 12/14/2020
 Surrogate: Toluene-d8 112 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

GW01

12/14/2020 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012205-06 (Water)

BTEX by EPA 8260D

Benzene	426	100	ug/L	100	B0L1006	TEM	12/14/2020	12/14/2020	
Toluene	ND	100	"	"	"	TEM	"	"	U
Ethylbenzene	956	100	"	"	"	TEM	"	"	
Xylenes, total	16200	100	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	88.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1006 - EPA 5030B (Water)

Blank (B0L1006-BLK1)

Prepared: 12/10/2020 Analyzed: 12/14/2020

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	58		"	62.5	92.7		70-130			
Surrogate: Toluene-d8	63		"	62.5	101		70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5	98.6		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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1006 - EPA 5030B (Water)

LCS (B0L1006-BS1)

Prepared: 12/10/2020 Analyzed: 12/14/2020

Benzene	54.9	1.00	ug/L	50.0		110	70-130			
Toluene	53.4	1.00	"	50.0		107	70-130			
Ethylbenzene	55.6	1.00	"	50.0		111	70-130			
m,p-Xylene	110	2.00	"	100		110	70-130			
o-Xylene	54.3	1.00	"	50.0		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.0	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.9	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1006 - EPA 5030B (Water)

Matrix Spike (B0L1006-MS1)	Source: Y012139-21			Prepared: 12/10/2020 Analyzed: 12/14/2020						
Benzene	55.0	1.00	ug/L	50.0	ND	110	70-130			
Toluene	52.5	1.00	"	50.0	ND	105	70-130			
Ethylbenzene	52.5	1.00	"	50.0	ND	105	70-130			
m,p-Xylene	106	2.00	"	100	ND	106	70-130			
o-Xylene	51.9	1.00	"	50.0	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.9	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1006 - EPA 5030B (Water)

Matrix Spike Dup (B0L1006-MSD1)	Source: Y012139-21			Prepared: 12/10/2020 Analyzed: 12/14/2020						
Benzene	54.9	1.00	ug/L	50.0	ND	110	70-130	0.0546	20	
Toluene	54.2	1.00	"	50.0	ND	108	70-130	3.09	20	
Ethylbenzene	54.7	1.00	"	50.0	ND	109	70-130	4.12	20	
m,p-Xylene	108	2.00	"	100	ND	108	70-130	2.28	20	
o-Xylene	52.1	1.00	"	50.0	ND	104	70-130	0.365	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.8	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1404 - EPA 5030 (soil)

Blank (B0L1404-BLK1)

Prepared: 12/14/2020 Analyzed: 12/14/2020

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	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.4	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1404 - EPA 5030 (soil)

LCS (B0L1404-BS1)

Prepared: 12/14/2020 Analyzed: 12/14/2020

Benzene	0.048	0.002	mg/kg	0.0500		95.2	70-130			
Toluene	0.049	0.002	"	0.0500		97.6	70-130			
Ethylbenzene	0.050	0.002	"	0.0500		101	70-130			
m,p-Xylene	0.103	0.004	"	0.100		103	70-130			
o-Xylene	0.051	0.002	"	0.0500		102	70-130			
Naphthalene	0.047	0.008	"	0.0500		94.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1404 - EPA 5030 (soil)

Matrix Spike (B0L1404-MS1)	Source: Y012196-01			Prepared: 12/14/2020 Analyzed: 12/14/2020						
Benzene	0.050	0.002	mg/kg	0.0500	ND	99.9	70-130			
Toluene	0.051	0.002	"	0.0500	ND	102	70-130			
Ethylbenzene	0.052	0.002	"	0.0500	ND	104	70-130			
m,p-Xylene	0.107	0.004	"	0.100	ND	107	70-130			
o-Xylene	0.054	0.002	"	0.0500	ND	108	70-130			
Naphthalene	0.051	0.008	"	0.0500	0.002	99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.4	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1404 - EPA 5030 (soil)

Matrix Spike Dup (B0L1404-MSD1)	Source: Y012196-01			Prepared: 12/14/2020 Analyzed: 12/14/2020						
Benzene	0.049	0.002	mg/kg	0.0500	ND	98.8	70-130	1.09	20	
Toluene	0.052	0.002	"	0.0500	ND	103	70-130	0.897	20	
Ethylbenzene	0.054	0.002	"	0.0500	ND	108	70-130	3.14	20	
m,p-Xylene	0.110	0.004	"	0.100	ND	110	70-130	2.86	20	
o-Xylene	0.056	0.002	"	0.0500	ND	111	70-130	3.22	20	
Naphthalene	0.055	0.008	"	0.0500	0.002	107	70-130	7.62	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.1	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1405 - EPA 3550B										
Blank (B0L1405-BLK1)										
					Prepared: 12/14/2020 Analyzed: 12/14/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	25.0		97.4	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1405 - EPA 3550B

LCS (B0L1405-BS1)

Prepared: 12/14/2020 Analyzed: 12/14/2020

Diesel (C10-C28)	1070	50.0	mg/kg	1000		107	70-130			
Residual Range Organics (C28-C40)	1130	200	"	1000		113	70-130			
Surrogate: o-Terphenyl	61		"	50.0		122	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1405 - EPA 3550B

Matrix Spike (B0L1405-MS1)	Source: Y012196-01			Prepared: 12/14/2020 Analyzed: 12/14/2020						
Diesel (C10-C28)	946	50.0	mg/kg	1000	ND	94.6	70-130			
Residual Range Organics (C28-C40)	991	200	"	1000	ND	99.1	70-130			
Surrogate: o-Terphenyl	52		"	50.0		104	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1405 - EPA 3550B

Matrix Spike Dup (B0L1405-MSD1)	Source: Y012196-01			Prepared: 12/14/2020 Analyzed: 12/14/2020						
Diesel (C10-C28)	992	50.0	mg/kg	1000	ND	99.2	70-130	4.78	35	
Residual Range Organics (C28-C40)	1080	200	"	1000	ND	108	70-130	8.20	35	
<i>Surrogate: o-Terphenyl</i>	<i>51</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>50-150</i>			

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B0L1409 - NO PREP

Duplicate (B0L1409-DUP1)		Source: Y012205-01			Prepared: 12/14/2020 Analyzed: 12/14/2020
pH	7.75		pH Units	7.92	2.17 25

Batch B0L1410 - NO PREP

Blank (B0L1410-BLK1)					Prepared: 12/14/2020 Analyzed: 12/14/2020
Specific Conductance (EC)	0.00250	0.00500	mmhos/cm		
Duplicate (B0L1410-DUP1)		Source: Y012205-01			Prepared: 12/14/2020 Analyzed: 12/14/2020
Specific Conductance (EC)	0.112	0.00502	mmhos/cm	0.108	3.63 25

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

Notes and Definitions

U Sample is Non-Detect.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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.

December 16, 2020

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - King Addie M GU 1

Project Number - 90257194

Attached are your analytical results for KMG - King Addie M GU 1 received by Origins Laboratory, Inc. December 15, 2020. This project is associated with Origins project number Y012226-01.

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



Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N03@10'	Y012226-01	Soil	December 15, 2020 15:02	12/15/2020 16:15
S03@10'	Y012226-02	Soil	December 15, 2020 15:05	12/15/2020 16:15
W03@10'	Y012226-03	Soil	December 15, 2020 15:08	12/15/2020 16:15

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, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1



402226

www.originslaboratory.com

page 1 of 1

Client: DX/TASMAN
 Address: _____
 Telephone Number: _____
 Email Address: m.jahn@tasman-geo.com

Project Manager: Mike Jahn
 Project Name: King Addie M GU 1
 Project Number: 90257194
 Samples Collected By: M Riend

Fax: 303.265.9645 | Phone: 303.433.1322 | Denver, CO 80211

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	DR/GR		DR/GR
N03@10'	12/15/2018	15:02	1	X				X				X	1	
S03@10'	↓	15:05	1	X				X				X	2	AM
W03@10'	↓	15:08	1	X				X				X	3	E DAY
													4	
													5	
													6	
													7	
													8	
													9	
													10	
Relinquished By: <u>MM</u>	Date: 12/15/2018	Time: 16:15						Received By: <u>[Signature]</u>	Date: 12/15/10	Time: 16:15				
Relinquished By:	Date:	Time:						Received By:	Date:	Time:				

Temp Received: 4.6 Date Results Needed

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y012226

Client: Tasman

Client Project ID: Ad King Addie M GU 1

Checklist Completed by: JG

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

Date/time completed: 12/15/20

Airbill #: NTA

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

Cooler Number/Temperature: 1 4.6 °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 Na ₂ CO ₃ +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 be taken in the additional comments (above) and the case narrative.

Reviewed by (Project Manager)

12/15/20
 Date/Time Reviewed

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

N03@10'
12/15/2020 3:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012226-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	1080	25.0	mg/kg	1	B0L1502	TEM	12/15/2020	12/15/2020	
Residual Range Organics (C28-C40)	127	100	"	"	"	TEM	"	"	

Surrogate: *o*-Terphenyl 118 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	3220	50.0	mg/kg	250	B0L1501	TEM	12/15/2020	12/15/2020	
Benzene	0.103	0.050	"	25	"	TEM	"	12/16/2020	
Toluene	0.168	0.050	"	"	"	TEM	"	"	
Ethylbenzene	9.46	0.050	"	"	"	TEM	"	"	
Xylenes, total	216	4.98	"	2500	"	TEM	"	"	
Naphthalene	2.35	0.200	"	25	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4 90.2 % 70-130 " " 12/15/2020
 Surrogate: Toluene-d8 103 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S03@10'

12/15/2020 3:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012226-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	128	25.0	mg/kg	1	B0L1502	TEM	12/15/2020	12/15/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 100 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	179	50.0	mg/kg	250	B0L1501	TEM	12/15/2020	12/15/2020	
Benzene	ND	0.050	"	25	"	TEM	"	12/15/2020	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	0.160	0.050	"	"	"	TEM	"	"	
Xylenes, total	2.24	0.050	"	"	"	TEM	"	"	
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 86.0 % 70-130 " " "
 Surrogate: Toluene-d8 109 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 107 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

W03@10'
12/15/2020 3:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012226-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	37.3	25.0	mg/kg	1	B0L1502	TEM	12/15/2020	12/15/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 99.2 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	21.8	5.00	mg/kg	25	B0L1501	TEM	12/15/2020	12/15/2020	
Benzene	0.093	0.050	"	"	"	TEM	"	"	
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	0.088	0.050	"	"	"	TEM	"	"	
Xylenes, total	1.06	0.050	"	"	"	TEM	"	"	
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 86.1 % 70-130 " " "
 Surrogate: Toluene-d8 106 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1501 - EPA 5030 (soil)

Blank (B0L1501-BLK1)

Prepared: 12/15/2020 Analyzed: 12/15/2020

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	103		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.0		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	101		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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1501 - EPA 5030 (soil)

LCS (B0L1501-BS1)

Prepared: 12/15/2020 Analyzed: 12/15/2020

Benzene	0.051	0.002	mg/kg	0.0500		103	70-130			
Toluene	0.048	0.002	"	0.0500		96.7	70-130			
Ethylbenzene	0.048	0.002	"	0.0500		95.9	70-130			
m,p-Xylene	0.096	0.004	"	0.100		95.5	70-130			
o-Xylene	0.046	0.002	"	0.0500		92.9	70-130			
Naphthalene	0.046	0.008	"	0.0500		92.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.3	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1501 - EPA 5030 (soil)

Matrix Spike (B0L1501-MS1)	Source: Y012201-01			Prepared: 12/15/2020 Analyzed: 12/15/2020						
Benzene	0.058	0.002	mg/kg	0.0500	ND	117	70-130			
Toluene	0.051	0.002	"	0.0500	ND	103	70-130			
Ethylbenzene	0.049	0.002	"	0.0500	ND	97.2	70-130			
m,p-Xylene	0.098	0.004	"	0.100	ND	98.4	70-130			
o-Xylene	0.050	0.002	"	0.0500	ND	99.0	70-130			
Naphthalene	0.052	0.008	"	0.0500	0.0009	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		114	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.3	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1501 - EPA 5030 (soil)

Matrix Spike Dup (B0L1501-MSD1)	Source: Y012201-01			Prepared: 12/15/2020 Analyzed: 12/15/2020						
Benzene	0.057	0.002	mg/kg	0.0500	ND	115	70-130	1.80	20	
Toluene	0.056	0.002	"	0.0500	ND	111	70-130	7.63	20	
Ethylbenzene	0.054	0.002	"	0.0500	ND	108	70-130	10.5	20	
m,p-Xylene	0.110	0.004	"	0.100	ND	110	70-130	11.1	20	
o-Xylene	0.055	0.002	"	0.0500	ND	109	70-130	9.65	20	
Naphthalene	0.054	0.008	"	0.0500	0.0009	106	70-130	2.97	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.5	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1502 - EPA 3550B										
Blank (B0L1502-BLK1)										
					Prepared: 12/15/2020 Analyzed: 12/15/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	25.0		102	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1502 - EPA 3550B										
LCS (B0L1502-BS1)					Prepared: 12/15/2020 Analyzed: 12/15/2020					
Diesel (C10-C28)	1070	50.0	mg/kg	1000		107	70-130			
Residual Range Organics (C28-C40)	1160	200	"	1000		116	70-130			
Surrogate: o-Terphenyl	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1502 - EPA 3550B

Matrix Spike (B0L1502-MS1)	Source: Y012201-01			Prepared: 12/15/2020 Analyzed: 12/15/2020						
Diesel (C10-C28)	989	50.0	mg/kg	1000	ND	98.9	70-130			
Residual Range Organics (C28-C40)	1060	200	"	1000	ND	106	70-130			
Surrogate: o-Terphenyl	56		"	50.0		113	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1502 - EPA 3550B

Matrix Spike Dup (B0L1502-MSD1)	Source: Y012201-01		Prepared: 12/15/2020 Analyzed: 12/15/2020							
Diesel (C10-C28)	890	50.0	mg/kg	1000	ND	89.0	70-130	10.5	35	
Residual Range Organics (C28-C40)	921	200	"	1000	ND	92.1	70-130	13.7	35	
Surrogate: o-Terphenyl	46		"	50.0		92.1	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 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, Project Manager



December 22, 2020

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - King Addie M GU 1

Project Number - 90257194

Attached are your analytical results for KMG - King Addie M GU 1 received by Origins Laboratory, Inc. December 16, 2020. This project is associated with Origins project number Y012241-01.

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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B03@3.5'	Y012241-01	Soil	December 16, 2020 15:05	12/16/2020 16:27
N04@10'	Y012241-02	Soil	December 16, 2020 15:08	12/16/2020 16:27
N05@2.5'	Y012241-03	Soil	December 16, 2020 15:11	12/16/2020 16:27
S04@2.5'	Y012241-04	Soil	December 16, 2020 15:14	12/16/2020 16:27
W04@2.5'	Y012241-05	Soil	December 16, 2020 15:17	12/16/2020 16:27

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

www.originslaboratory.com

page 1 of 1

yocum

ORIGINS
LABORATORY, INC

Client: DXY Tasman Geo

Address: _____

Telephone Number: _____

Email Address: m.jahn@tasman-geo.com

Project Manager: Mike Jahn

Project Name: King Addie M (GU)

Project Number: 90257194

Samples Collected By: M Rianka

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	GT/FTN	Dro/Dro	PH		FC
B03@35'	12/16/20	15:05	2	X				X			X	X	X	X	S	1
N04@10'		15:06	1								X	X			A	2
N05@2.5'		15:11	1												M	3
S04@2.5'		15:14	1												E	4
N04@2.5'		15:17	1												DAY	5
																6
																7
																8
																9
																10
Relinquished By: <u>M. Jahn</u>	Date: 12/16/2020	Time: 16:57						Received By: <u>[Signature]</u>	Date: 12/16/20	Time: 16:27	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr					
Relinquished By:	Date:	Time:						Received By:	Date:	Time:						

Temp Received: 6.7 Date Results Needed

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y012241

Client: Tasman

Client Project ID: King Addie

Checklist Completed by: JG

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

Date/time completed: 12/16/20

Airbill #: NTA

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

Cooler Number/Temperature: 1167 °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"/>		<u>Same Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) / (pH < -2 for samples preserved with HNO ₃ , HCl, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date, time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) 

12/16/20
 Date/Time Reviewed

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B03@3.5'

12/16/2020 3:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y012241-01 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	1190	25.0	mg/kg	1	B0L1603	TEM	12/16/2020	12/16/2020	
Residual Range Organics (C28-C40)	121	100	"	"	"	TEM	"	"	

Surrogate: *o*-Terphenyl 89.6 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	3910	50.0	mg/kg	250	B0L1602	TEM	12/16/2020	12/16/2020	
Benzene	0.243	0.050	"	25	"	TEM	"	12/17/2020	
Toluene	0.272	0.050	"	"	"	TEM	"	"	
Ethylbenzene	6.82	0.498	"	250	"	TEM	"	12/16/2020	
Xylenes, total	34.1	0.498	"	"	"	TEM	"	"	
Naphthalene	4.14	2.00	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4 90.7 % 70-130 " " "
 Surrogate: Toluene-d8 128 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 110 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	2.53		me/L	1	[none]		12/17/2020	12/21/2020	
Magnesium	0.93		"	"	"		"	"	
Sodium	1.87		"	"	"		"	"	

pH in Soil by EPA 9045D

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B03@3.5'

12/16/2020 3:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012241-01 (Soil)

pH in Soil by EPA 9045D

pH	7.63		pH Units	1	B0L1604	DJL	12/16/2020	12/16/2020	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	1.42			1	[none]		12/17/2020	12/21/2020	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.117	0.00500	mmhos/cm	1	B0L1606	DJL	12/16/2020	12/16/2020	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

N04@10'

12/16/2020 3:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y012241-02 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	335	25.0	mg/kg	1	B0L1603	TEM	12/16/2020	12/16/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 97.1 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	1250	50.0	mg/kg	250	B0L1602	TEM	12/16/2020	12/16/2020	
Benzene	ND	0.050	"	25	"	TEM	"	12/17/2020	U
Toluene	0.078	0.050	"	"	"	TEM	"	"	
Ethylbenzene	0.482	0.050	"	"	"	TEM	"	"	
Xylenes, total	33.5	0.498	"	250	"	TEM	"	12/16/2020	
Naphthalene	0.896	0.200	"	25	"	TEM	"	12/17/2020	

Surrogate: 1,2-Dichloroethane-d4 89.7 % 70-130 " " 12/16/2020

Surrogate: Toluene-d8 108 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

N05@2.5'
12/16/2020 3:11:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012241-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	406	25.0	mg/kg	1	B0L1603	TEM	12/16/2020	12/16/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 85.4 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	1230	50.0	mg/kg	250	B0L1602	TEM	12/16/2020	12/17/2020	
Benzene	ND	0.050	"	25	"	TEM	"	12/16/2020	U
Toluene	0.078	0.050	"	"	"	TEM	"	"	
Ethylbenzene	0.338	0.050	"	"	"	TEM	"	"	
Xylenes, total	11.6	0.498	"	250	"	TEM	"	12/17/2020	
Naphthalene	0.473	0.200	"	25	"	TEM	"	12/16/2020	

Surrogate: 1,2-Dichloroethane-d4 87.5 % 70-130 " " 12/17/2020
 Surrogate: Toluene-d8 102 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S04@2.5'

12/16/2020 3:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y012241-04 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	649	25.0	mg/kg	1	B0L1603	TEM	12/16/2020	12/16/2020	
Residual Range Organics (C28-C40)	167	100	"	"	"	TEM	"	"	

Surrogate: *o*-Terphenyl 97.2 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	2690	50.0	mg/kg	250	B0L1602	TEM	12/16/2020	12/16/2020	
Benzene	1.18	0.050	"	25	"	TEM	"	12/17/2020	
Toluene	0.340	0.050	"	"	"	TEM	"	"	
Ethylbenzene	0.374	0.050	"	"	"	TEM	"	"	
Xylenes, total	0.292	0.050	"	"	"	TEM	"	"	
Naphthalene	3.40	2.00	"	250	"	TEM	"	12/16/2020	

Surrogate: 1,2-Dichloroethane-d4 88.1 % 70-130 " " "
 Surrogate: Toluene-d8 124 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 106 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

W04@2.5'

12/16/2020 3:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012241-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	358	25.0	mg/kg	1	B0L1603	TEM	12/16/2020	12/16/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U
<i>Surrogate: o-Terphenyl</i>	89.9 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	599	50.0	mg/kg	250	B0L1602	TEM	12/16/2020	12/16/2020	
Benzene	ND	0.050	"	25	"	TEM	"	12/17/2020	U
Toluene	0.062	0.050	"	"	"	TEM	"	"	
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	0.460	0.200	"	"	"	TEM	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	87.3 %	70-130			"	"		12/16/2020	
<i>Surrogate: Toluene-d8</i>	105 %	70-130			"	"		"	
<i>Surrogate: 4-Bromofluorobenzene</i>	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1602 - EPA 5030 (soil)										
Blank (B0L1602-BLK1)										
					Prepared: 12/16/2020 Analyzed: 12/16/2020					
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	0.11		"	0.125		91.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1602 - EPA 5030 (soil)

LCS (B0L1602-BS1)

Prepared: 12/16/2020 Analyzed: 12/16/2020

Benzene	0.099	0.002	mg/kg	0.100		99.4	70-130			
Toluene	0.098	0.002	"	0.100		97.7	70-130			
Ethylbenzene	0.098	0.002	"	0.100		97.9	70-130			
m,p-Xylene	0.195	0.004	"	0.200		97.5	70-130			
o-Xylene	0.093	0.002	"	0.100		93.5	70-130			
Naphthalene	0.092	0.008	"	0.100		92.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.2	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.



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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1602 - EPA 5030 (soil)

Matrix Spike (B0L1602-MS1)	Source: Y012236-02			Prepared: 12/16/2020 Analyzed: 12/16/2020						
Benzene	0.099	0.002	mg/kg	0.100	ND	99.4	70-130			
Toluene	0.099	0.002	"	0.100	ND	99.1	70-130			
Ethylbenzene	0.093	0.002	"	0.100	ND	93.3	70-130			
m,p-Xylene	0.190	0.004	"	0.200	ND	94.8	70-130			
o-Xylene	0.095	0.002	"	0.100	ND	94.8	70-130			
Naphthalene	0.100	0.008	"	0.100	ND	100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1602 - EPA 5030 (soil)

Matrix Spike Dup (B0L1602-MSD1)	Source: Y012236-02			Prepared: 12/16/2020 Analyzed: 12/16/2020						
Benzene	0.096	0.002	mg/kg	0.100	ND	95.5	70-130	3.96	20	
Toluene	0.095	0.002	"	0.100	ND	94.8	70-130	4.44	20	
Ethylbenzene	0.090	0.002	"	0.100	ND	90.0	70-130	3.62	20	
m,p-Xylene	0.180	0.004	"	0.200	ND	90.2	70-130	4.95	20	
o-Xylene	0.090	0.002	"	0.100	ND	90.1	70-130	5.02	20	
Naphthalene	0.097	0.008	"	0.100	ND	97.2	70-130	3.24	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1603 - EPA 3550B										
Blank (B0L1603-BLK1)										
					Prepared: 12/16/2020 Analyzed: 12/16/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	25.0		88.3	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1603 - EPA 3550B

LCS (B0L1603-BS1)

Prepared: 12/16/2020 Analyzed: 12/16/2020

Diesel (C10-C28)	1070	50.0	mg/kg	1000		107	70-130			
Residual Range Organics (C28-C40)	1130	200	"	1000		113	70-130			
Surrogate: o-Terphenyl	56		"	50.0		113	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1603 - EPA 3550B

Matrix Spike (B0L1603-MS1)	Source: Y012236-02			Prepared: 12/16/2020 Analyzed: 12/16/2020						
Diesel (C10-C28)	903	50.0	mg/kg	1000	ND	90.3	70-130			
Residual Range Organics (C28-C40)	922	200	"	1000	ND	92.2	70-130			
Surrogate: o-Terphenyl	45		"	50.0		89.3	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1603 - EPA 3550B

Matrix Spike Dup (B0L1603-MSD1)	Source: Y012236-02		Prepared: 12/16/2020 Analyzed: 12/16/2020							
Diesel (C10-C28)	948	50.0	mg/kg	1000	ND	94.8	70-130	4.81	35	
Residual Range Organics (C28-C40)	993	200	"	1000	ND	99.3	70-130	7.40	35	
Surrogate: o-Terphenyl	47		"	50.0		94.6	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B0L1604 - NO PREP

Duplicate (B0L1604-DUP1) Source: Y012241-01 Prepared: 12/16/2020 Analyzed: 12/16/2020

pH	7.54		pH Units		7.63			1.19	25	
----	------	--	----------	--	------	--	--	------	----	--

Batch B0L1606 - NO PREP

Blank (B0L1606-BLK1) Prepared: 12/16/2020 Analyzed: 12/16/2020

Specific Conductance (EC)	0.00330	0.00500	mmhos/cm							
---------------------------	---------	---------	----------	--	--	--	--	--	--	--

Duplicate (B0L1606-DUP1) Source: Y012241-01 Prepared: 12/16/2020 Analyzed: 12/16/2020

Specific Conductance (EC)	0.105	0.00509	mmhos/cm		0.117			10.1	25	
---------------------------	-------	---------	----------	--	-------	--	--	------	----	--

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 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, Project Manager

December 23, 2020

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - King Addie M GU 1

Project Number - 90257194

Attached are your analytical results for KMG - King Addie M GU 1 received by Origins Laboratory, Inc. December 17, 2020. This project is associated with Origins project number Y012264-01.

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



Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B04@11'	Y012264-01	Soil	December 17, 2020 15:10	12/17/2020 17:27
B05@11'	Y012264-02	Soil	December 17, 2020 15:00	12/17/2020 17:27
N06@10'	Y012264-03	Soil	December 17, 2020 15:12	12/17/2020 17:27
N07@8'	Y012264-04	Soil	December 17, 2020 15:02	12/17/2020 17:27
E03@9'	Y012264-05	Soil	December 17, 2020 15:06	12/17/2020 17:27
S05@10'	Y012264-06	Soil	December 17, 2020 15:14	12/17/2020 17:27
W05@10'	Y012264-07	Soil	December 17, 2020 15:16	12/17/2020 17:27
W06@9'	Y012264-08	Soil	December 17, 2020 15:08	12/17/2020 17:27

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

www.originslaboratory.com

page 1 of 1



9022204

Client: Cxy Tasman
 Address: _____
 Telephone Number: _____
 Email Address: MikeJahn@tasmangeos.com

Project Manager: Mike Jahn
 Project Name: King Addie M GU 1
 Project Number: 90257194
 Samples Collected By: BL

Sample ID Description	Date Sampled	Time Sampled	# of Containers			Preservative				Matrix			Analysis						Sample Instructions
			Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	Geochem	DRA/RO	PH	SFA					
B04R11'	12-17-20	15:16	2	X				X					X	X	X	X	X	pid 1,000	
B05R11'		15:00	2	X									X	X	X	X	X		
N06R10'		15:12	1										X	X	X	X	X	1000	
N07R8'		15:22	1										X	X	X	X	X	1000	
E03R9'		15:26	1										X	X	X	X	X	2,000	
S05R10'		15:14	1										X	X	X	X	X	2,100	
N05R10'		15:16	1										X	X	X	X	X	2,600	
N06R9'		15:08	1	X									X	X	X	X	X	1,800	

Relinquished By: BL Date: 12-17-20 Time: _____
 Relinquished By: _____ Date: _____ Time: _____
 Received By: [Signature] Date: 12/17/20 Time: 17:27
 Received By: _____ Date: _____ Time: _____
 Turnaround Time: 24 Hr 48 Hr 72 Hr

Date Results Needed 2.5

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

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: y012264

Client: Tasman

Client Project ID: King Addie

Checklist Completed by: JG

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

Date/time completed: 12/17/20

Airbill #: N/A

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

Cooler Number/Temperature: 1, 2.5 °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)

12/17/20
 Date/Time Reviewed

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B04@11'

12/17/2020 3:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y012264-01 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	53.2	25.0	mg/kg	1	B0L1701	TEM	12/17/2020	12/17/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 104 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	105	5.00	mg/kg	25	B0L1706	TEM	12/17/2020	12/17/2020	
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	0.112	0.050	"	"	"	TEM	"	"	
Xylenes, total	1.02	0.050	"	"	"	TEM	"	"	
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 78.2 % 70-130 " " "

Surrogate: Toluene-d8 109 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	2.26		me/L	1	[none]		12/21/2020	12/23/2020	
Magnesium	0.96		"	"	"		"	"	
Sodium	6.35		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B04@11'

12/17/2020 3:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012264-01 (Soil)

pH in Soil by EPA 9045D

pH	7.48		pH Units	1	B0L1711	DJL	12/17/2020	12/17/2020	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	5.00			1	[none]		12/21/2020	12/23/2020	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.127	0.00508	mmhos/cm	1	B0L1712	DJL	12/17/2020	12/17/2020	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B05@11'
12/17/2020 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012264-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0L1701	TEM	12/17/2020	12/17/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 85.5 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	8.13	5.00	mg/kg	25	B0L1706	TEM	12/17/2020	12/17/2020	
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	0.102	0.050	"	"	"	TEM	"	"	
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 80.6 % 70-130 " " "
 Surrogate: Toluene-d8 105 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	2.25		me/L	1	[none]		12/21/2020	12/23/2020	
Magnesium	0.96		"	"	"		"	"	
Sodium	4.47		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B05@11'

12/17/2020 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y012264-02 (Soil)**

pH in Soil by EPA 9045D

pH	7.71		pH Units	1	B0L1711	DJL	12/17/2020	12/17/2020	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	3.53			1	[none]		12/21/2020	12/23/2020	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.111	0.00500	mmhos/cm	1	B0L1712	DJL	12/17/2020	12/17/2020	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

N06@10'
12/17/2020 3:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012264-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	70.6	25.0	mg/kg	1	B0L1701	TEM	12/17/2020	12/17/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 84.1 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	414	5.00	mg/kg	25	B0L1706	TEM	12/17/2020	12/17/2020	
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	0.166	0.050	"	"	"	TEM	"	"	
Xylenes, total	1.34	0.050	"	"	"	TEM	"	"	
Naphthalene	0.249	0.200	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4 77.3 % 70-130 " " "
 Surrogate: Toluene-d8 112 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 109 % 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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

N07@8'

12/17/2020 3:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012264-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	1020	25.0	mg/kg	1	B0L1701	TEM	12/17/2020	12/17/2020	
Residual Range Organics (C28-C40)	166	100	"	"	"	TEM	"	12/18/2020	

Surrogate: *o*-Terphenyl 106 % 50-150 " " 12/17/2020

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	2680	50.0	mg/kg	250	B0L1706	TEM	12/17/2020	12/17/2020	
Benzene	ND	0.050	"	25	"	TEM	"	12/17/2020	U
Toluene	0.065	0.050	"	"	"	TEM	"	"	
Ethylbenzene	0.079	0.050	"	"	"	TEM	"	"	
Xylenes, total	2.59	0.050	"	"	"	TEM	"	"	
Naphthalene	0.212	0.200	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4 76.0 % 70-130 " " "

Surrogate: Toluene-d8 109 % 70-130 " " 12/17/2020

Surrogate: 4-Bromofluorobenzene 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

E03@9'

12/17/2020 3:06:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012264-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	335	25.0	mg/kg	1	B0L1701	TEM	12/17/2020	12/17/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl 89.4 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	1300	50.0	mg/kg	250	B0L1706	TEM	12/17/2020	12/17/2020	
Benzene	ND	0.050	"	25	"	TEM	"	12/17/2020	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	0.426	0.050	"	"	"	TEM	"	"	
Xylenes, total	13.0	0.050	"	"	"	TEM	"	"	
Naphthalene	0.513	0.200	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4 76.4 % 70-130 " " "

Surrogate: Toluene-d8 125 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 119 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S05@10'

12/17/2020 3:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y012264-06 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	118	25.0	mg/kg	1	B0L1701	TEM	12/17/2020	12/17/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 88.1 % 50-150 " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	561	50.0	mg/kg	250	B0L1706	TEM	12/17/2020	12/17/2020	
Benzene	ND	0.050	"	25	"	TEM	"	12/17/2020	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	0.740	0.050	"	"	"	TEM	"	"	
Xylenes, total	7.65	0.050	"	"	"	TEM	"	"	
Naphthalene	0.348	0.200	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4 77.4 % 70-130 " "
 Surrogate: Toluene-d8 117 % 70-130 " "
 Surrogate: 4-Bromofluorobenzene 107 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

W05@10'
12/17/2020 3:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012264-07 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	1350	25.0	mg/kg	1	B0L1701	TEM	12/17/2020	12/17/2020	
Residual Range Organics (C28-C40)	195	100	"	"	"	TEM	"	12/18/2020	

Surrogate: *o*-Terphenyl 92.4 % 50-150 " " 12/17/2020

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	4900	50.0	mg/kg	250	B0L1706	TEM	12/17/2020	12/17/2020	
Benzene	0.189	0.050	"	25	"	TEM	"	12/17/2020	
Toluene	0.214	0.050	"	"	"	TEM	"	"	
Ethylbenzene	7.81	0.498	"	250	"	TEM	"	12/17/2020	
Xylenes, total	105	0.498	"	"	"	TEM	"	"	
Naphthalene	3.44	0.200	"	25	"	TEM	"	12/17/2020	

Surrogate: 1,2-Dichloroethane-d4 74.7 % 70-130 " " "

Surrogate: Toluene-d8 122 % 70-130 " " 12/17/2020

Surrogate: 4-Bromofluorobenzene 109 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

W06@9'

12/17/2020 3:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012264-08 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	706	25.0	mg/kg	1	B0L1701	TEM	12/17/2020	12/17/2020	
Residual Range Organics (C28-C40)	134	100	"	"	"	TEM	"	12/18/2020	

Surrogate: *o*-Terphenyl 90.8 % 50-150 " " 12/17/2020

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	3370	50.0	mg/kg	250	B0L1706	TEM	12/17/2020	12/17/2020	
Benzene	ND	0.050	"	25	"	TEM	"	12/17/2020	U
Toluene	0.103	0.050	"	"	"	TEM	"	"	
Ethylbenzene	0.204	0.050	"	"	"	TEM	"	"	
Xylenes, total	4.25	0.050	"	"	"	TEM	"	"	
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 76.7 % 70-130 " " "

Surrogate: Toluene-d8 114 % 70-130 " " 12/17/2020

Surrogate: 4-Bromofluorobenzene 110 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1701 - EPA 3580										
Blank (B0L1701-BLK1)										
					Prepared: 12/17/2020 Analyzed: 12/17/2020					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	45		"	50.0		90.8	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1701 - EPA 3580										
LCS (B0L1701-BS1)										
					Prepared: 12/17/2020 Analyzed: 12/17/2020					
Diesel (C10-C28)	833	50.0	mg/kg	1000		83.3	70-130			
Residual Range Organics (C28-C40)	859	200	"	1000		85.9	70-130			
Surrogate: o-Terphenyl	46		"	50.0		91.2	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1701 - EPA 3580

Matrix Spike (B0L1701-MS1)	Source: Y012251-01			Prepared: 12/17/2020 Analyzed: 12/17/2020						
Diesel (C10-C28)	1040	50.0	mg/kg	1000	ND	104	70-130			
Residual Range Organics (C28-C40)	1130	200	"	1000	ND	113	70-130			
Surrogate: o-Terphenyl	57		"	50.0		114	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1701 - EPA 3580

Matrix Spike Dup (B0L1701-MSD1)	Source: Y012251-01		Prepared: 12/17/2020 Analyzed: 12/17/2020							
Diesel (C10-C28)	900	50.0	mg/kg	1000	ND	90.0	70-130	14.5	35	
Residual Range Organics (C28-C40)	916	200	"	1000	ND	91.6	70-130	21.2	35	
Surrogate: o-Terphenyl	51		"	50.0		102	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1706 - EPA 5030 (soil)

Blank (B0L1706-BLK1)

Prepared: 12/17/2020 Analyzed: 12/17/2020

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		107	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.



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, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1706 - EPA 5030 (soil)

LCS (B0L1706-BS1)

Prepared: 12/17/2020 Analyzed: 12/17/2020

Benzene	0.041	0.002	mg/kg	0.0500		81.8	70-130			
Toluene	0.046	0.002	"	0.0500		92.3	70-130			
Ethylbenzene	0.048	0.002	"	0.0500		96.4	70-130			
m,p-Xylene	0.096	0.004	"	0.100		95.7	70-130			
o-Xylene	0.047	0.002	"	0.0500		94.1	70-130			
Naphthalene	0.049	0.008	"	0.0500		98.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1706 - EPA 5030 (soil)

Matrix Spike (B0L1706-MS1)	Source: Y012251-01			Prepared: 12/17/2020 Analyzed: 12/17/2020						
Benzene	0.044	0.002	mg/kg	0.0500	ND	88.0	70-130			
Toluene	0.048	0.002	"	0.0500	ND	96.2	70-130			
Ethylbenzene	0.049	0.002	"	0.0500	ND	98.5	70-130			
m,p-Xylene	0.100	0.004	"	0.100	ND	99.6	70-130			
o-Xylene	0.050	0.002	"	0.0500	ND	101	70-130			
Naphthalene	0.046	0.008	"	0.0500	0.004	84.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L1706 - EPA 5030 (soil)

Matrix Spike Dup (B0L1706-MSD1)	Source: Y012251-01			Prepared: 12/17/2020 Analyzed: 12/17/2020						
Benzene	0.046	0.002	mg/kg	0.0500	ND	91.3	70-130	3.75	20	
Toluene	0.049	0.002	"	0.0500	ND	97.8	70-130	1.57	20	
Ethylbenzene	0.050	0.002	"	0.0500	ND	100	70-130	1.73	20	
m,p-Xylene	0.102	0.004	"	0.100	ND	102	70-130	2.52	20	
o-Xylene	0.051	0.002	"	0.0500	ND	102	70-130	1.66	20	
Naphthalene	0.052	0.008	"	0.0500	0.004	96.8	70-130	12.3	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B0L1711 - NO PREP

Duplicate (B0L1711-DUP1)

Source: Y012264-01

Prepared: 12/17/2020 Analyzed: 12/17/2020

pH	7.27		pH Units		7.48			2.85	25	
----	------	--	----------	--	------	--	--	------	----	--

Batch B0L1712 - NO PREP

Blank (B0L1712-BLK1)

Prepared: 12/17/2020 Analyzed: 12/17/2020

Specific Conductance (EC)	0.00330	0.00500	mmhos/cm							
---------------------------	---------	---------	----------	--	--	--	--	--	--	--

Duplicate (B0L1712-DUP1)

Source: Y012264-01

Prepared: 12/17/2020 Analyzed: 12/17/2020

Specific Conductance (EC)	0.128	0.00500	mmhos/cm		0.127			0.864	25	
---------------------------	-------	---------	----------	--	-------	--	--	-------	----	--

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 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, Project Manager



December 31, 2020

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - King Addie M GU 1

Project Number - 90257194

Attached are your analytical results for KMG - King Addie M GU 1 received by Origins Laboratory, Inc. December 21, 2020. This project is associated with Origins project number Y012326-01.

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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B06@11'	Y012326-01	Soil	December 21, 2020 15:00	12/21/2020 17:03
N08@10'	Y012326-02	Soil	December 21, 2020 15:02	12/21/2020 17:03
S06@9'	Y012326-03	Soil	December 21, 2020 15:04	12/21/2020 17:03
E04@10'	Y012326-04	Soil	December 21, 2020 15:06	12/21/2020 17:03

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

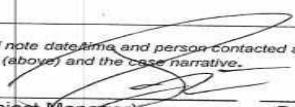
Origins Laboratory F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y012326 Client: Tasman
 Checklist Completed by: JG Client Project ID: King Addie M GU 1
 Date/time completed: 12/21/20 Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 5.2 °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 Na ₂ SO 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 12/21/20

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B06@11'

12/21/2020 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y012326-01 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0L2115	TEM	12/21/2020	12/21/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl 101 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0L2112	TEM	12/21/2020	12/21/2020	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 97.2 % 70-130 " " "
Surrogate: Toluene-d8 97.9 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 96.3 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	2.24		me/L	1	[none]		12/28/2020	12/30/2020	
Magnesium	1.41		"	"	"		"	"	
Sodium	5.35		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B06@11'

12/21/2020 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012326-01 (Soil)

pH in Soil by EPA 9045D

pH	7.47		pH Units	1	B0L2111	DJL	12/21/2020	12/21/2020	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	3.96			1	[none]		12/28/2020	12/30/2020	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.101	0.00500	mmhos/cm	1	B0L2116	DJL	12/21/2020	12/21/2020	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

N08@10'
12/21/2020 3:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012326-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0L2115	TEM	12/21/2020	12/21/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 87.5 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0L2112	TEM	12/21/2020	12/21/2020	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 97.2 % 70-130 " " "
 Surrogate: Toluene-d8 99.6 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 96.4 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S06@9'

12/21/2020 3:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y012326-03 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	1060	250	mg/kg	10	B0L2115	TEM	12/21/2020	12/21/2020	
Residual Range Organics (C28-C40)	ND	100	"	1	"	TEM	"	12/22/2020	U
<i>Surrogate: o-Terphenyl</i>	107 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	1930	50.0	mg/kg	250	B0L2112	TEM	12/21/2020	12/22/2020	
Benzene	0.075	0.050	"	25	"	TEM	"	12/22/2020	
Toluene	2.62	0.498	"	250	"	TEM	"	12/22/2020	
Ethylbenzene	6.66	0.498	"	"	"	TEM	"	"	
Xylenes, total	74.0	4.98	"	2500	"	TEM	"	12/21/2020	
Naphthalene	1.20	0.200	"	25	"	TEM	"	12/22/2020	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	99.1 %	70-130			"	"	"	12/21/2020	
<i>Surrogate: Toluene-d8</i>	98.8 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	96.3 %	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

E04@10'

12/21/2020 3:06:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012326-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0L2115	TEM	12/21/2020	12/21/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl 84.4 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0L2112	TEM	12/21/2020	12/21/2020	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	0.120	0.050	"	"	"	TEM	"	"	
Xylenes, total	0.528	0.050	"	"	"	TEM	"	"	
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 96.8 % 70-130 " " "

Surrogate: Toluene-d8 101 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 96.2 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2112 - EPA 5030 (soil)

Blank (B0L2112-BLK1)

Prepared: 12/21/2020 Analyzed: 12/21/2020

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		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.6	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2112 - EPA 5030 (soil)

LCS (B0L2112-BS1)

Prepared: 12/21/2020 Analyzed: 12/21/2020

Benzene	0.042	0.002	mg/kg	0.0500		84.1	70-130			
Toluene	0.045	0.002	"	0.0500		90.4	70-130			
Ethylbenzene	0.047	0.002	"	0.0500		94.0	70-130			
m,p-Xylene	0.094	0.004	"	0.100		93.6	70-130			
o-Xylene	0.047	0.002	"	0.0500		94.6	70-130			
Naphthalene	0.056	0.008	"	0.0500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.8	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2112 - EPA 5030 (soil)

Matrix Spike (B0L2112-MS1)	Source: Y012323-34			Prepared: 12/21/2020 Analyzed: 12/22/2020						
Benzene	0.057	0.002	mg/kg	0.0500	ND	113	70-130			
Toluene	0.048	0.002	"	0.0500	ND	95.3	70-130			
Ethylbenzene	0.044	0.002	"	0.0500	ND	87.1	70-130			
m,p-Xylene	0.089	0.004	"	0.100	ND	89.0	70-130			
o-Xylene	0.045	0.002	"	0.0500	ND	89.3	70-130			
Naphthalene	0.043	0.008	"	0.0500	ND	85.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2112 - EPA 5030 (soil)

Matrix Spike Dup (B0L2112-MSD1)	Source: Y012323-34			Prepared: 12/21/2020 Analyzed: 12/22/2020						
Benzene	0.056	0.002	mg/kg	0.0500	ND	112	70-130	1.42	20	
Toluene	0.046	0.002	"	0.0500	ND	91.1	70-130	4.46	20	
Ethylbenzene	0.042	0.002	"	0.0500	ND	83.1	70-130	4.75	20	
m,p-Xylene	0.089	0.004	"	0.100	ND	89.3	70-130	0.381	20	
o-Xylene	0.045	0.002	"	0.0500	ND	90.2	70-130	0.980	20	
Naphthalene	0.044	0.008	"	0.0500	ND	88.4	70-130	3.50	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.7	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2115 - EPA 3580										
Blank (B0L2115-BLK1)										
					Prepared: 12/21/2020 Analyzed: 12/21/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	25.0		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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2115 - EPA 3580

LCS (B0L2115-BS1)

Prepared: 12/21/2020 Analyzed: 12/21/2020

Diesel (C10-C28)	1040	50.0	mg/kg	1000		104	70-130			
Residual Range Organics (C28-C40)	1120	200	"	1000		112	70-130			
Surrogate: <i>o</i> -Terphenyl	57		"	50.0		114	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2115 - EPA 3580

Matrix Spike (B0L2115-MS1)	Source: Y012326-01			Prepared: 12/21/2020 Analyzed: 12/21/2020						
Diesel (C10-C28)	1050	50.0	mg/kg	1000	5.94	105	70-130			
Residual Range Organics (C28-C40)	1110	200	"	1000	16.8	109	70-130			
Surrogate: o-Terphenyl	56		"	50.0		113	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2115 - EPA 3580

Matrix Spike Dup (B0L2115-MSD1)	Source: Y012326-01		Prepared: 12/21/2020 Analyzed: 12/21/2020							
Diesel (C10-C28)	942	50.0	mg/kg	1000	ND	94.2	70-130	11.3	35	
Residual Range Organics (C28-C40)	986	200	"	1000	ND	98.6	70-130	11.5	35	
Surrogate: o-Terphenyl	50		"	50.0		99.3	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B0L2111 - NO PREP

Duplicate (B0L2111-DUP1)

Source: Y012312-01

Prepared: 12/21/2020 Analyzed: 12/21/2020

pH	7.08		pH Units		7.32			3.33	25	
----	------	--	----------	--	------	--	--	------	----	--

Batch B0L2116 - NO PREP

Blank (B0L2116-BLK1)

Prepared: 12/21/2020 Analyzed: 12/21/2020

Specific Conductance (EC)	0.00180	0.00500	mmhos/cm							
---------------------------	---------	---------	----------	--	--	--	--	--	--	--

Duplicate (B0L2116-DUP1)

Source: Y012326-01

Prepared: 12/21/2020 Analyzed: 12/21/2020

Specific Conductance (EC)	0.101	0.00500	mmhos/cm		0.101			0.297	25	
---------------------------	-------	---------	----------	--	-------	--	--	-------	----	--

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 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.



December 31, 2020

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - King Addie M GU 1

Project Number - 90257194

Attached are your analytical results for KMG - King Addie M GU 1 received by Origins Laboratory, Inc. December 22, 2020. This project is associated with Origins project number Y012357-01.

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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B07@11'	Y012357-01	Soil	December 22, 2020 15:00	12/22/2020 17:02
N09@10'	Y012357-02	Soil	December 22, 2020 15:02	12/22/2020 17:02
S07@9'	Y012357-03	Soil	December 22, 2020 15:04	12/22/2020 17:02
E05@9'	Y012357-04	Soil	December 22, 2020 15:06	12/22/2020 17:02
W07@9'	Y012357-05	Soil	December 22, 2020 15:08	12/22/2020 17:02

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

www.originslaboratory.com

page 1 of 1



Client: Oxy/Tasman
 Project Manager: Mike Jahn
 Project Name: King Addie M GU 1
 Project Number: 90257194
 Samples Collected By: BL
 Telephone Number: _____
 Email Address: mjahn@tasman-geo.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	ERTX-2	PRE/CO	FS		PH	SRR
BOT 11	12-22-10	1504	2	X				X					X	X	X		
N 65810'		1502	1										X	X	X		
S 670 9'		1504	1										X	X	X		PA 3500
E 650 9'		1506	1										X	X	X		
W 670 9'		1508	1										X	X	X		PA 3500
Relinquished By:																	
Relinquished By:																	
Received By:																	
Received By:																	
Date:																	
Date:																	
Time:																	
Time:																	
Date:																	
Date:																	
Time:																	
Time:																	
Turnaround Time:																	
Same Day:																	
48 Hr:																	
72 Hr:																	
Standard:																	

Date Results Needed

Temp Received: 5.2

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y012357

Client: Tasman
 Client Project ID: King Addie

Checklist Completed by: JG

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

Date/time completed: 12/22/20

Airbill #: N/A

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

Water

Other:

(Describe)

Cooler Number/Temperature: 1, 5.2 °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)

Date/Time Reviewed 12/22/20

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B07@11'
12/22/2020 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012357-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0L2211	TEM	12/22/2020	12/22/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 92.4 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0L2214	TEM	12/22/2020	12/22/2020	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "
 Surrogate: Toluene-d8 98.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.8 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	2.28		me/L	1	[none]		12/28/2020	12/30/2020	
Magnesium	1.24		"	"	"		"	"	
Sodium	5.05		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B07@11'

12/22/2020 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012357-01 (Soil)

pH in Soil by EPA 9045D

pH	7.70		pH Units	1	B0L2209	KDK	12/22/2020	12/22/2020	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	3.81			1	[none]		12/28/2020	12/30/2020	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.113	0.00500	mmhos/cm	1	B0L2210	KDK	12/22/2020	12/22/2020	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

N09@10'
12/22/2020 3:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012357-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0L2211	TEM	12/22/2020	12/22/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 87.8 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0L2214	TEM	12/22/2020	12/22/2020	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "
 Surrogate: Toluene-d8 98.6 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 99.4 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S07@9'

12/22/2020 3:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012357-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	110	25.0	mg/kg	1	B0L2211	TEM	12/22/2020	12/22/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U
<i>Surrogate: o-Terphenyl</i>	85.4 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	127	50.0	mg/kg	250	B0L2214	TEM	12/22/2020	12/22/2020	
Benzene	ND	0.050	"	25	"	TEM	"	12/22/2020	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	0.182	0.050	"	"	"	TEM	"	"	
Xylenes, total	4.15	0.050	"	"	"	TEM	"	"	
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	101 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	106 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	98.5 %	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

E05@9'

12/22/2020 3:06:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012357-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0L2211	TEM	12/22/2020	12/22/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 83.5 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	11.7	5.00	mg/kg	25	B0L2214	TEM	12/22/2020	12/22/2020	
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	0.105	0.050	"	"	"	TEM	"	"	
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

W07@9'

12/22/2020 3:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
 Y012357-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	295	25.0	mg/kg	1	B0L2211	TEM	12/22/2020	12/22/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U
<i>Surrogate: o-Terphenyl</i>	100 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	459	50.0	mg/kg	250	B0L2214	TEM	12/22/2020	12/22/2020	
Benzene	ND	0.050	"	25	"	TEM	"	12/23/2020	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	4.20	0.050	"	"	"	TEM	"	"	
Naphthalene	0.284	0.200	"	"	"	TEM	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	98.2 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	117 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	99.1 %	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2211 - EPA 3580										
Blank (B0L2211-BLK1)										
					Prepared: 12/22/2020 Analyzed: 12/22/2020					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2211 - EPA 3580

LCS (B0L2211-BS1)

Prepared: 12/22/2020 Analyzed: 12/22/2020

Diesel (C10-C28)	1130	50.0	mg/kg	1000		113	70-130			
Residual Range Organics (C28-C40)	1170	200	"	1000		117	70-130			
Surrogate: o-Terphenyl	93		"	100		92.8	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2211 - EPA 3580

Matrix Spike (B0L2211-MS1)	Source: Y012350-01			Prepared: 12/22/2020 Analyzed: 12/22/2020						
Diesel (C10-C28)	1150	50.0	mg/kg	1000	15.7	114	70-130			
Residual Range Organics (C28-C40)	1250	200	"	1000	53.8	120	70-130			
Surrogate: o-Terphenyl	56		"	50.0		112	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2211 - EPA 3580

Matrix Spike Dup (B0L2211-MSD1)	Source: Y012350-01			Prepared: 12/22/2020 Analyzed: 12/22/2020						
Diesel (C10-C28)	1400	50.0	mg/kg	1000	15.7	138	70-130	19.3	35	QM-07
Residual Range Organics (C28-C40)	1480	200	"	1000	53.8	143	70-130	17.1	35	QM-07
Surrogate: o-Terphenyl	78		"	100		78.2	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2214 - EPA 5030 (soil)										
Blank (B0L2214-BLK1)										
					Prepared: 12/22/2020 Analyzed: 12/22/2020					
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		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.3	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2214 - EPA 5030 (soil)

LCS (B0L2214-BS1)

Prepared: 12/22/2020 Analyzed: 12/22/2020

Benzene	0.095	0.002	mg/kg	0.100		94.9	70-130			
Toluene	0.096	0.002	"	0.100		96.1	70-130			
Ethylbenzene	0.090	0.002	"	0.100		90.3	70-130			
m,p-Xylene	0.188	0.004	"	0.200		93.8	70-130			
o-Xylene	0.088	0.002	"	0.100		88.3	70-130			
Naphthalene	0.105	0.008	"	0.100		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2214 - EPA 5030 (soil)

Matrix Spike (B0L2214-MS1)	Source: Y012356-01			Prepared: 12/22/2020 Analyzed: 12/22/2020						
Benzene	0.092	0.002	mg/kg	0.100	ND	91.5	70-130			
Toluene	0.092	0.002	"	0.100	ND	92.0	70-130			
Ethylbenzene	0.085	0.002	"	0.100	ND	84.6	70-130			
m,p-Xylene	0.175	0.004	"	0.200	ND	87.5	70-130			
o-Xylene	0.085	0.002	"	0.100	ND	85.3	70-130			
Naphthalene	0.110	0.008	"	0.100	ND	110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.5	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2214 - EPA 5030 (soil)

Matrix Spike Dup (B0L2214-MSD1)	Source: Y012356-01			Prepared: 12/22/2020 Analyzed: 12/22/2020						
Benzene	0.097	0.002	mg/kg	0.100	ND	96.9	70-130	5.71	20	
Toluene	0.098	0.002	"	0.100	ND	98.3	70-130	6.64	20	
Ethylbenzene	0.090	0.002	"	0.100	ND	89.7	70-130	5.92	20	
m,p-Xylene	0.185	0.004	"	0.200	ND	92.4	70-130	5.40	20	
o-Xylene	0.086	0.002	"	0.100	ND	86.4	70-130	1.21	20	
Naphthalene	0.110	0.008	"	0.100	ND	110	70-130	0.200	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.9	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B0L2209 - NO PREP

Duplicate (B0L2209-DUP1)		Source: Y012343-01			Prepared: 12/22/2020 Analyzed: 12/22/2020					
pH	9.24		pH Units		9.21			0.325	25	

Batch B0L2210 - NO PREP

Blank (B0L2210-BLK1)		Prepared: 12/22/2020 Analyzed: 12/22/2020								
Specific Conductance (EC)	0.00240	0.00500	mmhos/cm							
Duplicate (B0L2210-DUP1)		Source: Y012343-01			Prepared: 12/22/2020 Analyzed: 12/22/2020					
Specific Conductance (EC)	0.348	0.00500	mmhos/cm		0.351			0.887	25	

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 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.



January 06, 2021

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - King Addie M GU 1

Project Number - 90257194

Attached are your analytical results for KMG - King Addie M GU 1 received by Origins Laboratory, Inc. December 23, 2020. This project is associated with Origins project number Y012371-01.

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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B08@11'	Y012371-01	Soil	December 23, 2020 12:00	12/23/2020 13:40
N10@10'	Y012371-02	Soil	December 23, 2020 12:02	12/23/2020 13:40
W08@9'	Y012371-03	Soil	December 23, 2020 12:04	12/23/2020 13:40

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

www.originslaboratory.com
 page of

1127371

ORIGINS
LABORATORY, INC

Client: CXY / TASMAN
 Address: _____
 Telephone Number: _____
 Email Address: m.jahn@tasman-geo.com

Project Manager: Mike Jahn
 Project Name: King Addie M GU 1
 Project Number: 90257194
 Samples Collected By: BL

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	sample instructions											
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	2 Summa Canister #			Other										
<u>PER 011'</u>	<u>12-23-20</u>	<u>1200</u>	<u>2</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>															
<u>ALB 101'</u>	<u>12/23</u>	<u>1200</u>	<u>1</u>	<input checked="" type="checkbox"/>																			
<u>WAS 09'</u>	<u>12/24</u>	<u>1204</u>	<u>1</u>	<input checked="" type="checkbox"/>																			

Relinquished By: BL Date: 12-23-20 Time: _____
 Relinquished By: _____ Date: _____ Time: _____
 Received By: _____ Date: 12/23/20 Time: 1340
 Received By: _____ Date: _____ Time: _____

Turnaround Time: Same Day 24 Hr 48 Hr 72 Hr Steamcleaning

Date Results Needed 4.6

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

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y012371

Client: Tasman
 Client Project ID: King Addie M GU 1

Checklist Completed by: JG
 Date/time completed: 12/23/20

Shipped Via: HD
 (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, 4g °C / _____ °C / _____ °C / _____ °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 GOC 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)

12/23/20
 Date/Time Reviewed

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B08@11'
12/23/2020 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012371-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0L2302	TEM	12/23/2020	12/23/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 97.8 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0L2301	TEM	12/23/2020	12/23/2020	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "
 Surrogate: Toluene-d8 99.2 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	1.75		me/L	1	[none]		01/04/2021	01/05/2021	
Magnesium	0.72		"	"	"		"	"	
Sodium	8.16		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B08@11'

12/23/2020 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012371-01 (Soil)

pH in Soil by EPA 9045D

pH	7.83		pH Units	1	B0L2307	KDK	12/23/2020	12/24/2020	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	7.34			1	[none]		01/04/2021	01/05/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.130	0.00500	mmhos/cm	1	B0L2308	KDK	12/23/2020	12/24/2020	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

N10@10'
12/23/2020 12:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012371-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0L2302	TEM	12/23/2020	12/23/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 90.8 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0L2301	TEM	12/23/2020	12/23/2020	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.1 % 70-130 " " "
 Surrogate: Toluene-d8 100 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 99.8 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

W08@9'
12/23/2020 12:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012371-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	1270	25.0	mg/kg	1	B0L2302	TEM	12/23/2020	12/23/2020	
Residual Range Organics (C28-C40)	199	100	"	"	"	TEM	"	"	

Surrogate: *o*-Terphenyl 106 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	3170	50.0	mg/kg	250	B0L2301	TEM	12/23/2020	12/24/2020	
Benzene	ND	0.050	"	25	"	TEM	"	12/23/2020	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	1.86	0.050	"	"	"	TEM	"	"	
Xylenes, total	67.1	0.498	"	250	"	TEM	"	12/24/2020	
Naphthalene	2.27	0.200	"	25	"	TEM	"	12/23/2020	

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "
 Surrogate: Toluene-d8 104 % 70-130 " " 12/24/2020
 Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " 12/23/2020

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2301 - EPA 5030 (soil)

Blank (B0L2301-BLK1)

Prepared: 12/23/2020 Analyzed: 12/23/2020

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		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.8	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2301 - EPA 5030 (soil)

LCS (B0L2301-BS1)

Prepared: 12/23/2020 Analyzed: 12/23/2020

Benzene	0.105	0.002	mg/kg	0.100		105	70-130			
Toluene	0.107	0.002	"	0.100		107	70-130			
Ethylbenzene	0.101	0.002	"	0.100		101	70-130			
m,p-Xylene	0.208	0.004	"	0.200		104	70-130			
o-Xylene	0.095	0.002	"	0.100		94.5	70-130			
Naphthalene	0.097	0.008	"	0.100		97.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2301 - EPA 5030 (soil)

Matrix Spike (B0L2301-MS1)	Source: Y012358-01			Prepared: 12/23/2020 Analyzed: 12/23/2020						
Benzene	0.104	0.002	mg/kg	0.100	ND	104	70-130			
Toluene	0.106	0.002	"	0.100	ND	106	70-130			
Ethylbenzene	0.100	0.002	"	0.100	0.021	78.8	70-130			
m,p-Xylene	0.204	0.004	"	0.200	0.033	85.7	70-130			
o-Xylene	0.096	0.002	"	0.100	0.028	68.1	70-130			QM-07
Naphthalene	0.101	0.008	"	0.100	0.071	30.0	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2301 - EPA 5030 (soil)

Matrix Spike Dup (B0L2301-MSD1)	Source: Y012358-01			Prepared: 12/23/2020 Analyzed: 12/23/2020						
Benzene	0.097	0.002	mg/kg	0.100	ND	97.1	70-130	6.69	20	
Toluene	0.099	0.002	"	0.100	ND	99.4	70-130	6.01	20	
Ethylbenzene	0.093	0.002	"	0.100	0.021	72.1	70-130	6.97	20	
m,p-Xylene	0.190	0.004	"	0.200	0.033	78.8	70-130	7.02	20	
o-Xylene	0.088	0.002	"	0.100	0.028	61.0	70-130	7.71	20	QM-07
Naphthalene	0.100	0.008	"	0.100	0.071	29.0	70-130	0.975	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2302 - EPA 3580										
Blank (B0L2302-BLK1)										
					Prepared: 12/23/2020 Analyzed: 12/23/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	31		"	25.0		125	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2302 - EPA 3580

LCS (B0L2302-BS1)

Prepared: 12/23/2020 Analyzed: 12/23/2020

Diesel (C10-C28)	1080	50.0	mg/kg	1000		108	70-130			
Residual Range Organics (C28-C40)	1130	200	"	1000		113	70-130			
Surrogate: o-Terphenyl	58		"	50.0		117	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2302 - EPA 3580

Matrix Spike (B0L2302-MS1)	Source: Y012358-01			Prepared: 12/23/2020 Analyzed: 12/23/2020						
Diesel (C10-C28)	1200	50.0	mg/kg	1000	ND	120	70-130			
Residual Range Organics (C28-C40)	1210	200	"	1000	63.8	115	70-130			
Surrogate: o-Terphenyl	56		"	50.0		112	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2302 - EPA 3580										
Matrix Spike Dup (B0L2302-MSD1)		Source: Y012358-01			Prepared: 12/23/2020 Analyzed: 12/23/2020					
Diesel (C10-C28)	603	50.0	mg/kg	1000	ND	60.3	70-130	66.1	35	QM-07, QR-03
Residual Range Organics (C28-C40)	609	200	"	1000	63.8	54.5	70-130	66.4	35	QM-07, QR-03
Surrogate: o-Terphenyl	51		"	50.0		102	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Classical Chemistry Parameters - Quality Control
 Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B0L2307 - NO PREP

Duplicate (B0L2307-DUP1)		Source: Y012371-01			Prepared: 12/23/2020 Analyzed: 12/24/2020					
pH	7.68		pH Units		7.83			1.93	25	

Batch B0L2308 - NO PREP

Blank (B0L2308-BLK1)		Prepared: 12/23/2020 Analyzed: 12/24/2020								
Specific Conductance (EC)	0.00300	0.00500	mmhos/cm							
Duplicate (B0L2308-DUP1)		Source: Y012371-01			Prepared: 12/23/2020 Analyzed: 12/24/2020					
Specific Conductance (EC)	0.130	0.00500	mmhos/cm		0.130			0.308	25	

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 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.



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.



January 06, 2021

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - King Addie M GU 1

Project Number - 90257194

Attached are your analytical results for KMG - King Addie M GU 1 received by Origins Laboratory, Inc. December 28, 2020. This project is associated with Origins project number Y012396-01.

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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B09@11'	Y012396-01	Soil	December 28, 2020 15:15	12/28/2020 17:10
B10@11'	Y012396-02	Soil	December 28, 2020 15:17	12/28/2020 17:10
N11@10'	Y012396-03	Soil	December 28, 2020 15:19	12/28/2020 17:10
S08@9'	Y012396-04	Soil	December 28, 2020 15:21	12/28/2020 17:10
E06@9'	Y012396-05	Soil	December 28, 2020 15:23	12/28/2020 17:10
W09@9'	Y012396-06	Soil	December 28, 2020 15:25	12/28/2020 17:10
W10@9'	Y012396-07	Soil	December 28, 2020 15:27	12/28/2020 17:10
GW02	Y012396-08	Water	December 28, 2020 15:00	12/28/2020 17:10

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

www.originslaboratory.com

page 1 of 1

4012396

Client: Oxy / Tasman
 Address:
 Telephone Number:
 Email Address: m.jahn@tasmangeo.com

Project Manager: Mike Jahn
 Project Name: King Addie M GU 1
 Project Number: 90257194
 Samples Collected By: DL

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 Summa #	Other	GC/MS	DR/ORB	PH	SVR	BTEX										
B09811'	12-28-20	1515	2	X				X					X	X	X	X										
B10611'		1517	1										X	X	X	X										
A11610'		1519	1										X	X	X	X										
S02809'		1520	1										X	X	X	X										
F02809'		1523	1										X	X	X	X										
A02809'		1525	1										X	X	X	X										
N10610'		1527	1										X	X	X	X										
G02018		1530	3					X																		

Relinquished By: [Signature] Date: 12-28-20 Time: 11:10
 Relinquished By: [Signature] Date: 12-28-20 Time: 17:10

Received By: [Signature] Date: 12-28-20
 Received By: [Signature] Date:

Turnaround Time: Same Day 24 Hr 48 Hr 72 Hr
 Standards

34 Date Results Needed

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y012396

Client: Tasman

Client Project ID: KMG - King Addie M GU 1

Checklist Completed by: Don Lu

Shipped Via: FD

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

Date/time completed: 12-28-20

Airbill #: NA

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

Cooler Number/Temperature: 134 °C / _____ °C / _____ °C (Describe)

Thermometer ID: 1003

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 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 12/28/20

Origins Laboratory, Inc.

[Signature]

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B09@11'
12/28/2020 3:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012396-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	47.2	25.0	mg/kg	1	B0L2805	TEM	12/28/2020	12/28/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U
<i>Surrogate: o-Terphenyl</i>	92.4 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	16.9	5.00	mg/kg	25	B0L2806	TEM	12/28/2020	12/28/2020	
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	0.060	0.050	"	"	"	TEM	"	"	
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	101 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	99.4 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	96.1 %	70-130			"	"	"	"	

Metals (Saturated Paste Prep)

Calcium	2.93		me/L	1	[none]		01/04/2021	01/05/2021	
Magnesium	1.38		"	"	"		"	"	
Sodium	4.99		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B09@11'

12/28/2020 3:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012396-01 (Soil)

pH in Soil by EPA 9045D

pH	7.27		pH Units	1	B0L2808	DJL	12/28/2020	12/28/2020	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	3.40			1	[none]		01/04/2021	01/05/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.131	0.00500	mmhos/cm	1	B0L2809	DJL	12/28/2020	12/28/2020	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B10@11'
12/28/2020 3:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012396-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0L2805	TEM	12/28/2020	12/28/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 80.0 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0L2806	TEM	12/28/2020	12/28/2020	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "
 Surrogate: Toluene-d8 97.6 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.8 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	2.48		me/L	1	[none]		01/04/2021	01/05/2021	
Magnesium	1.15		"	"	"		"	"	
Sodium	5.45		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B10@11'

12/28/2020 3:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012396-02 (Soil)

pH in Soil by EPA 9045D

pH	7.52		pH Units	1	B0L2808	DJL	12/28/2020	12/28/2020	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	4.05			1	[none]		01/04/2021	01/05/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.119	0.00500	mmhos/cm	1	B0L2809	DJL	12/28/2020	12/28/2020	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

N11@10'
12/28/2020 3:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012396-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0L2805	TEM	12/28/2020	12/28/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 82.1 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0L2806	TEM	12/28/2020	12/28/2020	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "
 Surrogate: Toluene-d8 97.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 94.6 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S08@9'

12/28/2020 3:21:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit								

Origins Laboratory, Inc.
Y012396-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	792	25.0	mg/kg	1	B0L2805	TEM	12/28/2020	12/28/2020	
Residual Range Organics (C28-C40)	245	100	"	"	"	TEM	"	"	

Surrogate: *o*-Terphenyl 88.0 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	2280	50.0	mg/kg	250	B0L2806	TEM	12/28/2020	12/28/2020	
Benzene	0.468	0.050	"	25	"	TEM	"	12/28/2020	
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	9.30	0.498	"	250	"	TEM	"	12/28/2020	
Xylenes, total	11.8	0.050	"	25	"	TEM	"	12/28/2020	
Naphthalene	2.40	0.200	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " 12/28/2020
 Surrogate: Toluene-d8 111 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

E06@9'

12/28/2020 3:23:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012396-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	184	25.0	mg/kg	1	B0L2805	TEM	12/28/2020	12/28/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 93.5 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	523	50.0	mg/kg	250	B0L2806	TEM	12/28/2020	12/28/2020	
Benzene	0.050	0.050	"	25	"	TEM	"	12/28/2020	
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	0.634	0.050	"	"	"	TEM	"	"	
Xylenes, total	2.62	0.050	"	"	"	TEM	"	"	
Naphthalene	0.640	0.200	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " 12/28/2020
 Surrogate: Toluene-d8 96.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.7 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

W09@9'

12/28/2020 3:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
 Y012396-06 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	280	25.0	mg/kg	1	B0L2805	TEM	12/28/2020	12/28/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	87.1 %	50-150			"	"	"	"	
------------------------	--------	--------	--	--	---	---	---	---	--

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	776	50.0	mg/kg	250	B0L2806	TEM	12/28/2020	12/28/2020	
Benzene	0.082	0.050	"	25	"	TEM	"	12/28/2020	
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	0.966	0.200	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"		12/28/2020	
Surrogate: Toluene-d8	97.1 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	99.5 %	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

W10@9'
12/28/2020 3:27:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012396-07 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	384	25.0	mg/kg	1	B0L2805	TEM	12/28/2020	12/28/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U
<i>Surrogate: o-Terphenyl</i>	80.5 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	937	50.0	mg/kg	250	B0L2806	TEM	12/28/2020	12/28/2020	
Benzene	ND	0.050	"	25	"	TEM	"	12/28/2020	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	0.128	0.050	"	"	"	TEM	"	"	
Xylenes, total	0.240	0.050	"	"	"	TEM	"	"	
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

<i>Surrogate: 1,2-Dichloroethane-d4</i>	102 %	70-130			"	"		12/28/2020	
<i>Surrogate: Toluene-d8</i>	94.4 %	70-130			"	"		"	
<i>Surrogate: 4-Bromofluorobenzene</i>	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

GW02

12/28/2020 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012396-08 (Water)

BTEX by EPA 8260D

Benzene	90.5	50.0	ug/L	50	B0L2304	TEM	12/28/2020	12/28/2020	
Toluene	ND	50.0	"	"	"	TEM	"	"	U
Ethylbenzene	311	50.0	"	"	"	TEM	"	"	
Xylenes, total	3040	50.0	"	"	"	TEM	"	"	

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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2304 - EPA 5030B (Water)

Blank (B0L2304-BLK1)

Prepared: 12/23/2020 Analyzed: 12/28/2020

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	106		70-130			
Surrogate: Toluene-d8	62		"	62.5	98.9		70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5	107		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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2304 - EPA 5030B (Water)

LCS (B0L2304-BS1)

Prepared: 12/23/2020 Analyzed: 12/28/2020

Benzene	49.5	1.00	ug/L	50.0		99.0	70-130			
Toluene	50.5	1.00	"	50.0		101	70-130			
Ethylbenzene	45.6	1.00	"	50.0		91.3	70-130			
m,p-Xylene	93.4	2.00	"	100		93.4	70-130			
o-Xylene	42.2	1.00	"	50.0		84.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.7	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2304 - EPA 5030B (Water)

Matrix Spike (B0L2304-MS1)	Source: Y012361-02			Prepared: 12/23/2020 Analyzed: 12/28/2020						
Benzene	50.6	1.00	ug/L	50.0	ND	101	70-130			
Toluene	51.9	1.00	"	50.0	ND	104	70-130			
Ethylbenzene	47.6	1.00	"	50.0	ND	95.2	70-130			
m,p-Xylene	97.0	2.00	"	100	ND	97.0	70-130			
o-Xylene	44.7	1.00	"	50.0	ND	89.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.1	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2304 - EPA 5030B (Water)

Matrix Spike Dup (B0L2304-MSD1)	Source: Y012361-02			Prepared: 12/23/2020 Analyzed: 12/28/2020						
Benzene	50.5	1.00	ug/L	50.0	ND	101	70-130	0.238	20	
Toluene	50.7	1.00	"	50.0	ND	101	70-130	2.30	20	
Ethylbenzene	46.2	1.00	"	50.0	ND	92.4	70-130	2.90	20	
m,p-Xylene	95.9	2.00	"	100	ND	95.9	70-130	1.16	20	
o-Xylene	43.9	1.00	"	50.0	ND	87.9	70-130	1.80	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.3	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2805 - EPA 3550B										
Blank (B0L2805-BLK1)										
					Prepared: 12/28/2020 Analyzed: 12/28/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	25.0		87.2	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2805 - EPA 3550B

LCS (B0L2805-BS1)

Prepared: 12/28/2020 Analyzed: 12/28/2020

Diesel (C10-C28)	960	50.0	mg/kg	1000		96.0	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000		103	70-130			
Surrogate: o-Terphenyl	57		"	50.0		113	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2805 - EPA 3550B

Matrix Spike (B0L2805-MS1)	Source: Y012386-01			Prepared: 12/28/2020 Analyzed: 12/28/2020						
Diesel (C10-C28)	810	50.0	mg/kg	1000	ND	81.0	70-130			
Residual Range Organics (C28-C40)	855	200	"	1000	54.2	80.1	70-130			
Surrogate: o-Terphenyl	46		"	50.0		92.3	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2805 - EPA 3550B										
Matrix Spike Dup (B0L2805-MSD1)					Source: Y012386-01					Prepared: 12/28/2020 Analyzed: 12/28/2020
Diesel (C10-C28)	947	50.0	mg/kg	1000	ND	94.7	70-130	15.6	35	
Residual Range Organics (C28-C40)	1030	200	"	1000	54.2	97.8	70-130	18.8	35	
Surrogate: o-Terphenyl	55		"	50.0		111	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2806 - EPA 5030 (soil)										
Blank (B0L2806-BLK1)										
					Prepared: 12/28/2020 Analyzed: 12/28/2020					
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		99.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2806 - EPA 5030 (soil)

LCS (B0L2806-BS1)

Prepared: 12/28/2020 Analyzed: 12/28/2020

Benzene	0.050	0.002	mg/kg	0.0500		101	70-130			
Toluene	0.046	0.002	"	0.0500		91.8	70-130			
Ethylbenzene	0.048	0.002	"	0.0500		95.2	70-130			
m,p-Xylene	0.097	0.004	"	0.100		96.8	70-130			
o-Xylene	0.048	0.002	"	0.0500		96.2	70-130			
Naphthalene	0.043	0.008	"	0.0500		86.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2806 - EPA 5030 (soil)

Matrix Spike (B0L2806-MS1)	Source: Y012386-01			Prepared: 12/28/2020 Analyzed: 12/28/2020						
Benzene	0.055	0.002	mg/kg	0.0500	ND	109	70-130			
Toluene	0.044	0.002	"	0.0500	ND	88.8	70-130			
Ethylbenzene	0.043	0.002	"	0.0500	ND	85.4	70-130			
m,p-Xylene	0.087	0.004	"	0.100	ND	87.0	70-130			
o-Xylene	0.043	0.002	"	0.0500	ND	86.6	70-130			
Naphthalene	0.043	0.008	"	0.0500	ND	86.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2806 - EPA 5030 (soil)

Matrix Spike Dup (B0L2806-MSD1)	Source: Y012386-01			Prepared: 12/28/2020 Analyzed: 12/28/2020						
Benzene	0.060	0.002	mg/kg	0.0500	ND	119	70-130	8.48	20	
Toluene	0.049	0.002	"	0.0500	ND	98.1	70-130	9.89	20	
Ethylbenzene	0.047	0.002	"	0.0500	ND	94.0	70-130	9.58	20	
m,p-Xylene	0.095	0.004	"	0.100	ND	94.9	70-130	8.75	20	
o-Xylene	0.047	0.002	"	0.0500	ND	94.9	70-130	9.17	20	
Naphthalene	0.047	0.008	"	0.0500	ND	94.2	70-130	8.68	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.8	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B0L2808 - NO PREP

Duplicate (B0L2808-DUP1)		Source: Y012390-01			Prepared: 12/28/2020 Analyzed: 12/28/2020					
pH	7.25		pH Units		7.53			3.79	25	

Batch B0L2809 - NO PREP

Blank (B0L2809-BLK1)		Prepared: 12/28/2020 Analyzed: 12/28/2020								
Specific Conductance (EC)	0.00190	0.00500	mmhos/cm							
Duplicate (B0L2809-DUP1)		Source: Y012390-01			Prepared: 12/28/2020 Analyzed: 12/28/2020					
Specific Conductance (EC)	0.282	0.00500	mmhos/cm		0.278			1.36	25	

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 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.



January 06, 2021

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - King Addie M GU 1

Project Number - 90257194

Attached are your analytical results for KMG - King Addie M GU 1 received by Origins Laboratory, Inc. December 29, 2020. This project is associated with Origins project number Y012407-01.

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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B11@11'	Y012407-01	Soil	December 29, 2020 15:37	12/29/2020 16:51
S09@9'	Y012407-02	Soil	December 29, 2020 15:39	12/29/2020 16:51
S10@9'	Y012407-03	Soil	December 29, 2020 15:41	12/29/2020 16:51
E07@9'	Y012407-04	Soil	December 29, 2020 15:43	12/29/2020 16:51
W11@9'	Y012407-05	Soil	December 29, 2020 15:45	12/29/2020 16:51

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

www.originslaboratory.com

4012407

page 1 of 1

Client: Oxy Tasman
 Address: _____
 Telephone Number: _____
 Email Address: mjahn@tasmangeo.com

Project Manager: Mike Jahn
 Project Name: King Addie M GU 1
 Project Number: 90257194
 Samples Collected By: BL

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 Summa	Canister #			Other	
B110 11'	12-21-20	1537	2	X				X							
S1004 S1009		1539	1												
S1004		1541													
E0101		1543													
W1004		1545													
Relinquished By: _____	Date: 12-21-20	Time: 1651	Received By: <i>[Signature]</i>	Date: 12/21/20	Time: 1651	Turnaround Time: Same Day <input type="checkbox"/>	48 Hr <input type="checkbox"/>	72 Hr <input type="checkbox"/>	Standard <input checked="" type="checkbox"/>						

Date Results Needed

4/4

Origins Laboratory, Inc.

[Signature]

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 7012407

Client: Tasman

Client Project ID: KMG - King Addie M GU 1

Checklist Completed by: Dan Lee

Shipped Via: 1st

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

Date/time completed: 12/21/20

Airbill #: NA

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

Cooler Number/Temperature: 1 4.4 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: 1003

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>See</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"/>			<u>ph</u>
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 12/21/20

Origins Laboratory, Inc.

[Signature]

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B11@11'
12/29/2020 3:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012407-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	33.8	25.0	mg/kg	1	B0L2906	TEM	12/29/2020	12/29/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U
<i>Surrogate: o-Terphenyl</i>	81.3 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	242	5.00	mg/kg	25	B0L2907	TEM	12/29/2020	12/29/2020	
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	0.478	0.050	"	"	"	TEM	"	"	
Xylenes, total	2.49	0.050	"	"	"	TEM	"	"	
Naphthalene	0.356	0.200	"	"	"	TEM	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	102 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	109 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	104 %	70-130			"	"	"	"	

Metals (Saturated Paste Prep)

Calcium	3.35		me/L	1	[none]		01/04/2021	01/05/2021	
Magnesium	1.44		"	"	"		"	"	
Sodium	6.07		"	"	"		"	"	

pH in Soil by EPA 9045D

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B11@11'

12/29/2020 3:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012407-01 (Soil)

pH in Soil by EPA 9045D

pH	7.65		pH Units	1	B0L2904	DJL	12/29/2020	12/29/2020	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	3.92			1	[none]		01/04/2021	01/05/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.142	0.00500	mmhos/cm	1	B0L2905	DJL	12/29/2020	12/29/2020	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S09@9'

12/29/2020 3:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012407-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	1340	25.0	mg/kg	1	B0L2906	TEM	12/29/2020	12/29/2020	
Residual Range Organics (C28-C40)	284	100	"	"	"	TEM	"	"	

Surrogate: *o*-Terphenyl 89.9 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	6850	500	mg/kg	2500	B0L2907	TEM	12/29/2020	12/29/2020	
Benzene	1.00	0.498	"	250	"	TEM	"	12/29/2020	
Toluene	0.685	0.498	"	"	"	TEM	"	"	
Ethylbenzene	17.8	0.498	"	"	"	TEM	"	"	
Xylenes, total	ND	0.498	"	"	"	TEM	"	"	U
Naphthalene	6.21	2.00	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "
 Surrogate: Toluene-d8 128 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 119 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S10@9'

12/29/2020 3:41:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012407-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	946	25.0	mg/kg	1	B0L2906	TEM	12/29/2020	12/29/2020	
Residual Range Organics (C28-C40)	140	100	"	"	"	TEM	"	"	

Surrogate: *o*-Terphenyl 98.2 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	2690	50.0	mg/kg	250	B0L2907	TEM	12/29/2020	12/29/2020	
Benzene	0.192	0.050	"	25	"	TEM	"	12/29/2020	
Toluene	0.183	0.050	"	"	"	TEM	"	"	
Ethylbenzene	8.07	0.498	"	250	"	TEM	"	12/29/2020	
Xylenes, total	13.8	0.498	"	"	"	TEM	"	"	
Naphthalene	3.01	2.00	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "
 Surrogate: Toluene-d8 110 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

E07@9'

12/29/2020 3:43:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
 Y012407-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	444	25.0	mg/kg	1	B0L2906	TEM	12/29/2020	12/29/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U
<i>Surrogate: o-Terphenyl</i>	86.2 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	2110	50.0	mg/kg	250	B0L2907	TEM	12/29/2020	12/29/2020	
Benzene	0.090	0.050	"	25	"	TEM	"	12/29/2020	
Toluene	0.151	0.050	"	"	"	TEM	"	"	
Ethylbenzene	5.75	0.498	"	250	"	TEM	"	12/29/2020	
Xylenes, total	19.7	0.498	"	"	"	TEM	"	"	
Naphthalene	1.68	0.200	"	25	"	TEM	"	12/29/2020	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	104 %	70-130			"	"	"	12/29/2020	
<i>Surrogate: Toluene-d8</i>	108 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

W11@9'
12/29/2020 3:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012407-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	1040	25.0	mg/kg	1	B0L2906	TEM	12/29/2020	12/29/2020	
Residual Range Organics (C28-C40)	313	100	"	"	"	TEM	"	"	

Surrogate: *o*-Terphenyl 94.4 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	2730	50.0	mg/kg	250	B0L2907	TEM	12/29/2020	12/29/2020	
Benzene	0.888	0.050	"	25	"	TEM	"	12/29/2020	
Toluene	0.182	0.050	"	"	"	TEM	"	"	
Ethylbenzene	10.2	0.498	"	250	"	TEM	"	12/29/2020	
Xylenes, total	26.5	0.498	"	"	"	TEM	"	"	
Naphthalene	2.90	2.00	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "
 Surrogate: Toluene-d8 111 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2906 - EPA 3550B										
Blank (B0L2906-BLK1)										
					Prepared: 12/29/2020 Analyzed: 12/29/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	25.0		94.9	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2906 - EPA 3550B

LCS (B0L2906-BS1)

Prepared: 12/29/2020 Analyzed: 12/29/2020

Diesel (C10-C28)	834	50.0	mg/kg	1000		83.4	70-130			
Residual Range Organics (C28-C40)	871	200	"	1000		87.1	70-130			
Surrogate: o-Terphenyl	46		"	50.0		92.1	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2906 - EPA 3550B

Matrix Spike (B0L2906-MS1)	Source: Y012410-01			Prepared: 12/29/2020 Analyzed: 12/29/2020						
Diesel (C10-C28)	872	50.0	mg/kg	1000	ND	87.2	70-130			
Residual Range Organics (C28-C40)	914	200	"	1000	ND	91.4	70-130			
Surrogate: o-Terphenyl	48		"	50.0		96.2	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2906 - EPA 3550B

Matrix Spike Dup (B0L2906-MSD1)	Source: Y012410-01		Prepared: 12/29/2020 Analyzed: 12/29/2020							
Diesel (C10-C28)	900	50.0	mg/kg	1000	ND	90.0	70-130	3.12	35	
Residual Range Organics (C28-C40)	934	200	"	1000	ND	93.4	70-130	2.11	35	
Surrogate: o-Terphenyl	49		"	50.0		98.4	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2907 - EPA 5030 (soil)

Blank (B0L2907-BLK1)

Prepared: 12/29/2020 Analyzed: 12/29/2020

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		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.1	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2907 - EPA 5030 (soil)

LCS (B0L2907-BS1)

Prepared: 12/29/2020 Analyzed: 12/29/2020

Benzene	0.097	0.002	mg/kg	0.100		97.4	70-130			
Toluene	0.097	0.002	"	0.100		97.3	70-130			
Ethylbenzene	0.103	0.002	"	0.100		103	70-130			
m,p-Xylene	0.199	0.004	"	0.200		99.4	70-130			
o-Xylene	0.102	0.002	"	0.100		102	70-130			
Naphthalene	0.089	0.008	"	0.100		89.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.5	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2907 - EPA 5030 (soil)

Matrix Spike (B0L2907-MS1)	Source: Y012409-01			Prepared: 12/29/2020 Analyzed: 12/29/2020						
Benzene	0.106	0.002	mg/kg	0.100	ND	106	70-130			
Toluene	0.107	0.002	"	0.100	ND	107	70-130			
Ethylbenzene	0.115	0.002	"	0.100	ND	115	70-130			
m,p-Xylene	0.221	0.004	"	0.200	ND	110	70-130			
o-Xylene	0.112	0.002	"	0.100	ND	112	70-130			
Naphthalene	0.093	0.008	"	0.100	ND	92.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L2907 - EPA 5030 (soil)

Matrix Spike Dup (B0L2907-MSD1)	Source: Y012409-01			Prepared: 12/29/2020 Analyzed: 12/29/2020						
Benzene	0.098	0.002	mg/kg	0.100	ND	97.8	70-130	8.27	20	
Toluene	0.094	0.002	"	0.100	ND	94.1	70-130	13.1	20	
Ethylbenzene	0.102	0.002	"	0.100	ND	102	70-130	12.1	20	
m,p-Xylene	0.197	0.004	"	0.200	ND	98.3	70-130	11.4	20	
o-Xylene	0.100	0.002	"	0.100	ND	99.6	70-130	11.4	20	
Naphthalene	0.096	0.008	"	0.100	ND	96.4	70-130	3.85	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B0L2904 - NO PREP

Duplicate (B0L2904-DUP1)

Source: Y012407-01

Prepared: 12/29/2020 Analyzed: 12/29/2020

pH	7.53		pH Units		7.65			1.58	25	
----	------	--	----------	--	------	--	--	------	----	--

Batch B0L2905 - NO PREP

Blank (B0L2905-BLK1)

Prepared: 12/29/2020 Analyzed: 12/29/2020

Specific Conductance (EC)	0.00310	0.00500	mmhos/cm							
---------------------------	---------	---------	----------	--	--	--	--	--	--	--

Duplicate (B0L2905-DUP1)

Source: Y012407-01

Prepared: 12/29/2020 Analyzed: 12/29/2020

Specific Conductance (EC)	0.137	0.00500	mmhos/cm		0.142			3.30	25	
---------------------------	-------	---------	----------	--	-------	--	--	------	----	--

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 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.



January 06, 2021

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - King Addie M GU 1

Project Number - 90257194

Attached are your analytical results for KMG - King Addie M GU 1 received by Origins Laboratory, Inc. December 30, 2020. This project is associated with Origins project number Y012423-01.

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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B12@11'	Y012423-01	Soil	December 30, 2020 15:00	12/30/2020 16:06
S11@9'	Y012423-02	Soil	December 30, 2020 15:02	12/30/2020 16:06
E08@9'	Y012423-03	Soil	December 30, 2020 15:04	12/30/2020 16:06

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

www.originslaboratory.com

page 1 of 1

Y012423

Client: OXY / TASMAN

Address:

Telephone Number:

Email Address: mjahn@tasmangeo.com

Project Manager: Mike Jahn

Project Name: King Addie M GU 1

Project Number: 90257194

Samples Collected By: BL

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	EDX-IV	IC	PH		JAR
B12011	12-30-20	1500	2	X				X				X	X	X		1
S11091		1500	1									X	X			2
E08091		1504										X	X			3
																4
																5
																6
																7
																8
																9
																10

Relinquished By: [Signature] Date: 12-30-20 Time: 1606

Relinquished By: [Signature] Date: 12-30-20 Time: 1606

Received By: [Signature] Date: 12-31-20 Time: 1606

Received By: [Signature] Date: [] Time: []

Turnaround Time: Same Day 24 Hr 48 Hr 72 Hr Standard

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

Origins Laboratory, Inc.

Jordan A. Merrill

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y012423 Client: Tasman
 Client Project ID: KMG - King Addie M GU 1
 Checklist Completed by: D. Jahn Shipped Via: HT
 Date/time completed: 12/30/20 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: 2A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1307 °C / _____ °C / _____ °C (Describe)
 Thermometer ID: 1007

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"/>			gt
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 12/30/20

Origins Laboratory, Inc.

[Signature]

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B12@11'
12/30/2020 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012423-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0L3007	TEM	12/30/2020	12/30/2020	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 103 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B0L3009	TEM	12/30/2020	12/30/2020	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "
 Surrogate: Toluene-d8 100 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 92.7 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	3.94		me/L	1	[none]		01/04/2021	01/06/2021	
Magnesium	1.50		"	"	"		"	"	
Sodium	5.72		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B12@11'

12/30/2020 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012423-01 (Soil)

pH in Soil by EPA 9045D

pH	8.02		pH Units	1	B0L3010	DJL	12/30/2020	12/30/2020	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	3.47			1	[none]		01/04/2021	01/06/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.129	0.00500	mmhos/cm	1	B0L3011	DJL	12/30/2020	12/30/2020	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S11@9'

12/30/2020 3:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012423-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	197	25.0	mg/kg	1	B0L3007	TEM	12/30/2020	12/30/2020	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 92.6 % 50-150 " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	898	50.0	mg/kg	250	B0L3009	TEM	12/30/2020	12/30/2020	
Benzene	ND	0.050	"	25	"	TEM	"	12/30/2020	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	2.13	0.050	"	"	"	TEM	"	"	
Xylenes, total	37.8	0.498	"	250	"	TEM	"	12/30/2020	
Naphthalene	0.626	0.200	"	25	"	TEM	"	12/30/2020	

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " 12/30/2020
 Surrogate: Toluene-d8 95.6 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.9 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

E08@9'
12/30/2020 3:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y012423-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	532	25.0	mg/kg	1	B0L3007	TEM	12/30/2020	12/30/2020	
Residual Range Organics (C28-C40)	131	100	"	"	"	TEM	"	"	

Surrogate: *o*-Terphenyl 108 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	2000	50.0	mg/kg	250	B0L3009	TEM	12/30/2020	12/30/2020	
Benzene	ND	0.050	"	25	"	TEM	"	12/30/2020	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	2.31	0.050	"	"	"	TEM	"	"	
Xylenes, total	71.0	0.498	"	250	"	TEM	"	12/30/2020	
Naphthalene	0.730	0.200	"	25	"	TEM	"	12/30/2020	

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " 12/30/2020
 Surrogate: Toluene-d8 94.7 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 94.3 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L3007 - EPA 3550B										
Blank (B0L3007-BLK1)										
					Prepared: 12/30/2020 Analyzed: 12/30/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	29		"	25.0		114	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L3007 - EPA 3550B

LCS (B0L3007-BS1)

Prepared: 12/30/2020 Analyzed: 12/30/2020

Diesel (C10-C28)	926	50.0	mg/kg	1000		92.6	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000		104	70-130			
Surrogate: o-Terphenyl	57		"	50.0		114	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L3007 - EPA 3550B

Matrix Spike (B0L3007-MS1)	Source: Y012405-02			Prepared: 12/30/2020 Analyzed: 12/30/2020						
Diesel (C10-C28)	1070	50.0	mg/kg	1000	ND	107	70-130			
Residual Range Organics (C28-C40)	1160	200	"	1000	ND	116	70-130			
Surrogate: o-Terphenyl	61		"	50.0		121	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L3007 - EPA 3550B

Matrix Spike Dup (B0L3007-MSD1)	Source: Y012405-02			Prepared: 12/30/2020 Analyzed: 12/30/2020						
Diesel (C10-C28)	949	50.0	mg/kg	1000	ND	94.9	70-130	12.1	35	
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130	11.8	35	
Surrogate: o-Terphenyl	53		"	50.0		106	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L3009 - EPA 5030 (soil)

Blank (B0L3009-BLK1)

Prepared: 12/30/2020 Analyzed: 12/30/2020

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		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.3	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L3009 - EPA 5030 (soil)

LCS (B0L3009-BS1)

Prepared: 12/30/2020 Analyzed: 12/30/2020

Benzene	0.050	0.002	mg/kg	0.0500		100	70-130			
Toluene	0.047	0.002	"	0.0500		94.8	70-130			
Ethylbenzene	0.048	0.002	"	0.0500		95.0	70-130			
m,p-Xylene	0.099	0.004	"	0.100		99.3	70-130			
o-Xylene	0.049	0.002	"	0.0500		97.9	70-130			
Naphthalene	0.040	0.008	"	0.0500		81.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L3009 - EPA 5030 (soil)

Matrix Spike (B0L3009-MS1)	Source: Y012423-01			Prepared: 12/30/2020 Analyzed: 12/30/2020						
Benzene	0.053	0.002	mg/kg	0.0500	ND	105	70-130			
Toluene	0.050	0.002	"	0.0500	ND	99.2	70-130			
Ethylbenzene	0.050	0.002	"	0.0500	0.001	97.6	70-130			
m,p-Xylene	0.103	0.004	"	0.100	0.014	89.3	70-130			
o-Xylene	0.051	0.002	"	0.0500	ND	102	70-130			
Naphthalene	0.047	0.008	"	0.0500	ND	94.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.4	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L3009 - EPA 5030 (soil)

Matrix Spike Dup (B0L3009-MSD1)	Source: Y012423-01			Prepared: 12/30/2020 Analyzed: 12/30/2020						
Benzene	0.051	0.002	mg/kg	0.0500	ND	102	70-130	2.77	20	
Toluene	0.048	0.002	"	0.0500	ND	96.9	70-130	2.33	20	
Ethylbenzene	0.049	0.002	"	0.0500	0.001	95.0	70-130	2.64	20	
m,p-Xylene	0.100	0.004	"	0.100	0.014	86.2	70-130	3.09	20	
o-Xylene	0.050	0.002	"	0.0500	ND	99.7	70-130	2.30	20	
Naphthalene	0.045	0.008	"	0.0500	ND	89.7	70-130	4.62	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.6	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B0L3010 - NO PREP

Duplicate (B0L3010-DUP1)

Source: Y012423-01

Prepared: 12/30/2020 Analyzed: 12/30/2020

pH	7.66		pH Units		8.02			4.59	25	
----	------	--	----------	--	------	--	--	------	----	--

Batch B0L3011 - NO PREP

Blank (B0L3011-BLK1)

Prepared: 12/30/2020 Analyzed: 12/30/2020

Specific Conductance (EC)	0.00160	0.00500	mmhos/cm							
---------------------------	---------	---------	----------	--	--	--	--	--	--	--

Duplicate (B0L3011-DUP1)

Source: Y012423-01

Prepared: 12/30/2020 Analyzed: 12/30/2020

Specific Conductance (EC)	0.136	0.00501	mmhos/cm		0.129			5.89	25	
---------------------------	-------	---------	----------	--	-------	--	--	------	----	--

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 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.

January 07, 2021

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - King Addie M GU 1

Project Number - 90257194

Attached are your analytical results for KMG - King Addie M GU 1 received by Origins Laboratory, Inc. January 04, 2021. This project is associated with Origins project number Y101013-01.

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



Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B13@11'	Y101013-01	Soil	January 4, 2021 15:00	01/04/2021 16:45
B14@11'	Y101013-02	Soil	January 4, 2021 15:02	01/04/2021 16:45
S13@9'	Y101013-03	Soil	January 4, 2021 15:04	01/04/2021 16:45
S14@9'	Y101013-04	Soil	January 4, 2021 15:06	01/04/2021 16:45
W13@9'	Y101013-05	Soil	January 4, 2021 15:08	01/04/2021 16:45
W14@9'	Y101013-06	Soil	January 4, 2021 15:10	01/04/2021 16:45

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

www.originslaboratory.com

page 1 of 1



901013

Client: OXY / Tasman
 Address: [Blank]
 Telephone Number: [Blank]
 Email Address: Mjahn@tasman-geo.com

Project Manager: Mike Jahn
 Project Name: King Addie M GU 1
 Project Number: 90257194
 Samples Collected By: BL

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 Summa #	Other	G-80/80	Fe	TR	
B13011'	1-4-20	1200	2	X				X				X	X	X	
B14011'		1506										X	X	X	
S1309'		1504	1									X	X	X	pid 3.000
S1409'		1506										X	X	X	"
N1309'		1508										X	X	X	pid 2.800
N1409'		1510										X	X	X	
Relinquished By: <u>BL</u>	Date: <u>1-4-21</u>	Time:	Date: <u>1/4/21</u>	Time:	Received By: <u>[Signature]</u>	Date: <u>1/4/21</u>	Time: <u>1645</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr							
Relinquished By: <u>[Blank]</u>	Date: <u>[Blank]</u>	Time:	Date: <u>[Blank]</u>	Time:	Received By: <u>[Blank]</u>	Date: <u>[Blank]</u>	Time: <u>[Blank]</u>	Statements <input type="checkbox"/>							

Date Results Needed 29

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y101013

Client: Tasman

Client Project ID: King Addie

Checklist Completed by: SG

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

Date/time completed: 1/4/21

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 2.9 °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 Na ₂ SO 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 1/4/21

Origins Laboratory, Inc.

[Signature]

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B13@11'

1/4/2021 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101013-01 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0L3101	TEM	01/04/2021	01/04/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 113 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A0403	TEM	01/04/2021	01/04/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "
 Surrogate: Toluene-d8 98.4 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 94.4 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	3.00		me/L	1	[none]		01/05/2021	01/07/2020	
Magnesium	1.54		"	"	"		"	"	
Sodium	7.93		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B13@11'

1/4/2021 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101013-01 (Soil)

pH in Soil by EPA 9045D

pH	8.03		pH Units	1	B1A0409	DJL	01/04/2021	01/04/2021	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	5.26			1	[none]		01/05/2021	01/07/2020	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.137	0.00503	mmhos/cm	1	B1A0410	DJL	01/04/2021	01/04/2021	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B14@11'

1/4/2021 3:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101013-02 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B0L3101	TEM	01/04/2021	01/04/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 96.2 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A0403	TEM	01/04/2021	01/04/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "
 Surrogate: Toluene-d8 97.4 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 94.4 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	1.46		me/L	1	[none]		01/05/2021	01/07/2020	
Magnesium	0.63		"	"	"		"	"	
Sodium	6.71		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B14@11'

1/4/2021 3:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101013-02 (Soil)**

pH in Soil by EPA 9045D

pH	8.53		pH Units	1	B1A0409	DJL	01/04/2021	01/04/2021	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	6.56			1	[none]		01/05/2021	01/07/2020	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.116	0.00506	mmhos/cm	1	B1A0410	DJL	01/04/2021	01/04/2021	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S13@9'

1/4/2021 3:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101013-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	292	25.0	mg/kg	1	B0L3101	TEM	01/04/2021	01/04/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U
<i>Surrogate: o-Terphenyl</i>	104 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	930	50.0	mg/kg	250	B1A0403	TEM	01/04/2021	01/04/2021	
Benzene	ND	0.050	"	25	"	TEM	"	01/05/2021	U
Toluene	0.092	0.050	"	"	"	TEM	"	"	
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	0.421	0.200	"	"	"	TEM	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	108 %	70-130			"	"		01/04/2021	
<i>Surrogate: Toluene-d8</i>	99.1 %	70-130			"	"		"	
<i>Surrogate: 4-Bromofluorobenzene</i>	101 %	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S14@9'

1/4/2021 3:06:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101013-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	1300	25.0	mg/kg	1	B0L3101	TEM	01/04/2021	01/04/2021	
Residual Range Organics (C28-C40)	168	100	"	"	"	TEM	"	"	

Surrogate: *o*-Terphenyl 111 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	2200	50.0	mg/kg	250	B1A0403	TEM	01/04/2021	01/04/2021	
Benzene	0.365	0.050	"	25	"	TEM	"	01/05/2021	
Toluene	0.150	0.050	"	"	"	TEM	"	"	
Ethylbenzene	10.8	0.498	"	250	"	TEM	"	01/04/2021	
Xylenes, total	2.54	0.050	"	25	"	TEM	"	01/05/2021	
Naphthalene	2.54	0.200	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 " " 01/04/2021
 Surrogate: Toluene-d8 108 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

W13@9'

1/4/2021 3:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101013-05 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	396	25.0	mg/kg	1	B0L3101	TEM	01/04/2021	01/04/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U
<i>Surrogate: o-Terphenyl</i>	101 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	759	50.0	mg/kg	250	B1A0403	TEM	01/04/2021	01/04/2021	
Benzene	0.066	0.050	"	25	"	TEM	"	01/05/2021	
Toluene	0.084	0.050	"	"	"	TEM	"	"	
Ethylbenzene	1.80	0.498	"	250	"	TEM	"	01/04/2021	
Xylenes, total	ND	0.050	"	25	"	TEM	"	01/05/2021	U
Naphthalene	1.37	0.200	"	"	"	TEM	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	106 %	70-130			"	"	"	01/04/2021	
<i>Surrogate: Toluene-d8</i>	101 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	99.3 %	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

W14@9'

1/4/2021 3:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101013-06 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	51.6	25.0	mg/kg	1	B0L3101	TEM	01/04/2021	01/04/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U
<i>Surrogate: o-Terphenyl</i>	95.2 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	13.8	5.00	mg/kg	25	B1A0403	TEM	01/04/2021	01/05/2021	
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	107 %	70-130			"	"		01/04/2021	
<i>Surrogate: Toluene-d8</i>	95.1 %	70-130			"	"		"	
<i>Surrogate: 4-Bromofluorobenzene</i>	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L3101 - EPA 3550B										
Blank (B0L3101-BLK1)										
					Prepared: 12/31/2020 Analyzed: 01/04/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	25.0		94.6	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L3101 - EPA 3550B

LCS (B0L3101-BS1)

Prepared: 12/31/2020 Analyzed: 01/04/2021

Diesel (C10-C28)	983	50.0	mg/kg	1000		98.3	70-130			
Residual Range Organics (C28-C40)	1110	200	"	1000		111	70-130			
Surrogate: o-Terphenyl	58		"	50.0		115	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L3101 - EPA 3550B

Matrix Spike (B0L3101-MS1)	Source: Y012425-01			Prepared: 12/31/2020 Analyzed: 01/04/2021						
Diesel (C10-C28)	1110	50.0	mg/kg	1000	212	90.0	70-130			
Residual Range Organics (C28-C40)	1290	200	"	1000	777	50.9	70-130			
Surrogate: o-Terphenyl	62		"	50.0		125	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B0L3101 - EPA 3550B										
Matrix Spike Dup (B0L3101-MSD1)		Source: Y012425-01			Prepared: 12/31/2020 Analyzed: 01/04/2021					
Diesel (C10-C28)	1090	50.0	mg/kg	1000	212	87.6	70-130	2.14	35	
Residual Range Organics (C28-C40)	1580	200	"	1000	777	80.0	70-130	20.3	35	QM-07
Surrogate: o-Terphenyl	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A0403 - EPA 5030 (soil)

Blank (B1A0403-BLK1)

Prepared: 01/04/2021 Analyzed: 01/04/2021

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		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A0403 - EPA 5030 (soil)

LCS (B1A0403-BS1)

Prepared: 01/04/2021 Analyzed: 01/04/2021

Benzene	0.106	0.002	mg/kg	0.100		106	70-130			
Toluene	0.104	0.002	"	0.100		104	70-130			
Ethylbenzene	0.109	0.002	"	0.100		109	70-130			
m,p-Xylene	0.214	0.004	"	0.200		107	70-130			
o-Xylene	0.108	0.002	"	0.100		108	70-130			
Naphthalene	0.102	0.008	"	0.100		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A0403 - EPA 5030 (soil)

Matrix Spike (B1A0403-MS1)	Source: Y101011-01			Prepared: 01/04/2021 Analyzed: 01/04/2021						
Benzene	0.097	0.002	mg/kg	0.100	ND	97.1	70-130			
Toluene	0.096	0.002	"	0.100	ND	96.0	70-130			
Ethylbenzene	0.101	0.002	"	0.100	ND	101	70-130			
m,p-Xylene	0.196	0.004	"	0.200	0.066	65.3	70-130			QM-07
o-Xylene	0.098	0.002	"	0.100	ND	98.0	70-130			
Naphthalene	0.094	0.008	"	0.100	ND	93.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	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.



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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A0403 - EPA 5030 (soil)

Matrix Spike Dup (B1A0403-MSD1)	Source: Y101011-01			Prepared: 01/04/2021 Analyzed: 01/04/2021						
Benzene	0.113	0.002	mg/kg	0.100	ND	113	70-130	15.6	20	
Toluene	0.112	0.002	"	0.100	ND	112	70-130	15.6	20	
Ethylbenzene	0.120	0.002	"	0.100	ND	120	70-130	17.3	20	
m,p-Xylene	0.231	0.004	"	0.200	0.066	83.0	70-130	16.6	20	
o-Xylene	0.114	0.002	"	0.100	ND	114	70-130	14.9	20	
Naphthalene	0.102	0.008	"	0.100	ND	102	70-130	8.89	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B1A0409 - NO PREP

Duplicate (B1A0409-DUP1)		Source: Y101011-05			Prepared: 01/04/2021 Analyzed: 01/04/2021				
pH	7.44		pH Units		7.70			3.43	25

Batch B1A0410 - NO PREP

Blank (B1A0410-BLK1)					Prepared: 01/04/2021 Analyzed: 01/04/2021				
Specific Conductance (EC)	0.00240	0.00500	mmhos/cm						
Duplicate (B1A0410-DUP1)		Source: Y101011-05			Prepared: 01/04/2021 Analyzed: 01/04/2021				
Specific Conductance (EC)	0.116	0.00500	mmhos/cm		0.109			6.93	25

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 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.



January 11, 2021

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - King Addie M GU 1

Project Number - 90257194

Attached are your analytical results for KMG - King Addie M GU 1 received by Origins Laboratory, Inc. January 06, 2021. This project is associated with Origins project number Y101046-01.

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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B15@11'	Y101046-01	Soil	January 6, 2021 15:17	01/06/2021 16:23
S15@9'	Y101046-02	Soil	January 6, 2021 15:19	01/06/2021 16:23
S16@9'	Y101046-03	Soil	January 6, 2021 15:21	01/06/2021 16:23
E09@9'	Y101046-04	Soil	January 6, 2021 15:23	01/06/2021 16:23

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

www.originslaboratory.com

page 1 of 1



90257194

Client: OSY / TASMAN
 Address:
 Telephone Number:
 Email Address: ljo@tasman-geo.com

Project Manager: Mike Jahn
 Project Name: King Addie M GU 1
 Project Number: 90257194
 Samples Collected By: DL

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 Summa Canister #	Other	As	Pb	Cr	Other									
S15011	1-6-21	1517	2	X				X				X	X	X	X									
S15091		1519	1									X	X	X	X									
S16091		1521	1									X	X	X	X									
EXP091		1523	1									X	X	X	X									
Relinquished by:				Time:	Date:	Received by:		Time:	Date:	Received by:		Time:	Date:	Received by:		Time:	Date:	Turnaround Time:						
					1-6-21									11/6/21				Same Day						
																		48 Hr						
																		Standard						

Date Results Needed

5.5

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

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

Sample Receipt Checklist

Origins Work Order: y101046 Client: Tasman
 Client Project ID: King Addie

Checklist Completed by: SG Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 1/6/12 Airbill #: N/A

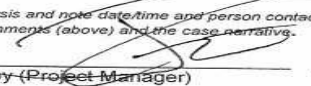
Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
(Describe)

Cooler Number/Temperature: 1 / 5.5 °C _____ °C _____ °C _____ °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⁾ ?	/			
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.


 Reviewed by (Project Manager) Date/Time Reviewed: 1/6/12

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B15@11'

1/6/2021 3:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101046-01 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A0605	TEM	01/06/2021	01/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 95.7 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A0604	TEM	01/06/2021	01/06/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "
 Surrogate: Toluene-d8 94.7 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.4 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	2.89		me/L	1	[none]		01/07/2021	01/11/2021	
Magnesium	1.42		"	"	"		"	"	
Sodium	6.50		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B15@11'

1/6/2021 3:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101046-01 (Soil)**

pH in Soil by EPA 9045D

pH	7.52		pH Units	1	B1A0610	DJL	01/06/2021	01/06/2021	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	4.43			1	[none]		01/07/2021	01/11/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.116	0.00503	mmhos/cm	1	B1A0611	DJL	01/06/2021	01/06/2021	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S15@9'

1/6/2021 3:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101046-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	672	25.0	mg/kg	1	B1A0605	TEM	01/06/2021	01/07/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U
<i>Surrogate: o-Terphenyl</i>	105 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	1950	50.0	mg/kg	250	B1A0604	TEM	01/06/2021	01/06/2021	
Benzene	ND	0.050	"	25	"	TEM	"	01/06/2021	U
Toluene	0.104	0.050	"	"	"	TEM	"	"	
Ethylbenzene	2.68	0.050	"	"	"	TEM	"	"	
Xylenes, total	7.60	0.498	"	250	"	TEM	"	01/06/2021	
Naphthalene	1.66	0.200	"	25	"	TEM	"	01/06/2021	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	105 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	104 %	70-130			"	"	"	01/06/2021	
<i>Surrogate: 4-Bromofluorobenzene</i>	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S16@9'

1/6/2021 3:21:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101046-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	220	25.0	mg/kg	1	B1A0605	TEM	01/06/2021	01/07/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U
<i>Surrogate: o-Terphenyl</i>	97.5 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	392	50.0	mg/kg	250	B1A0604	TEM	01/06/2021	01/06/2021	
Benzene	ND	0.050	"	25	"	TEM	"	01/06/2021	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	107 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	93.8 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	121 %	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

E09@9'

1/6/2021 3:23:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101046-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	68.4	25.0	mg/kg	1	B1A0605	TEM	01/06/2021	01/07/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U
<i>Surrogate: o-Terphenyl</i>	108 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	11.0	5.00	mg/kg	25	B1A0604	TEM	01/06/2021	01/06/2021	
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	110 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	94.6 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A0604 - EPA 5030 (soil)										
Blank (B1A0604-BLK1)										
					Prepared: 01/06/2021 Analyzed: 01/06/2021					
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	69		ug/kg	62.5		110	70-130			
Surrogate: Toluene-d8	63		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	56		"	62.5		89.8	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A0604 - EPA 5030 (soil)

LCS (B1A0604-BS1)

Prepared: 01/06/2021 Analyzed: 01/06/2021

Benzene	0.051	0.002	mg/kg	0.0500		102	70-130			
Toluene	0.053	0.002	"	0.0500		106	70-130			
Ethylbenzene	0.053	0.002	"	0.0500		107	70-130			
m,p-Xylene	0.111	0.004	"	0.100		111	70-130			
o-Xylene	0.055	0.002	"	0.0500		109	70-130			
Naphthalene	0.046	0.008	"	0.0500		92.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		109	70-130			
Surrogate: Toluene-d8	63		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.1	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A0604 - EPA 5030 (soil)

Matrix Spike (B1A0604-MS1)	Source: Y101041-01			Prepared: 01/06/2021 Analyzed: 01/06/2021						
Benzene	0.052	0.002	mg/kg	0.0500	103	70-130				
Toluene	0.055	0.002	"	0.0500	109	70-130				
Ethylbenzene	0.050	0.002	"	0.0500	99.2	70-130				
m,p-Xylene	0.103	0.004	"	0.100	103	70-130				
o-Xylene	0.053	0.002	"	0.0500	106	70-130				
Naphthalene	0.049	0.008	"	0.0500	98.1	70-130				
Surrogate: 1,2-Dichloroethane-d4	70		ug/kg	62.5	113	70-130				
Surrogate: Toluene-d8	64		"	62.5	102	70-130				
Surrogate: 4-Bromofluorobenzene	59		"	62.5	94.1	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A0604 - EPA 5030 (soil)

Matrix Spike Dup (B1A0604-MSD1)	Source: Y101041-01			Prepared: 01/06/2021 Analyzed: 01/06/2021						
Benzene	0.051	0.002	mg/kg	0.0500	103	70-130	0.117	20		
Toluene	0.053	0.002	"	0.0500	107	70-130	2.63	20		
Ethylbenzene	0.052	0.002	"	0.0500	104	70-130	5.11	20		
m,p-Xylene	0.108	0.004	"	0.100	108	70-130	4.35	20		
o-Xylene	0.054	0.002	"	0.0500	107	70-130	1.16	20		
Naphthalene	0.053	0.008	"	0.0500	106	70-130	7.91	20		
Surrogate: 1,2-Dichloroethane-d4	71		ug/kg	62.5	113	70-130				
Surrogate: Toluene-d8	63		"	62.5	100	70-130				
Surrogate: 4-Bromofluorobenzene	59		"	62.5	94.5	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A0605 - EPA 3550B										
Blank (B1A0605-BLK1)										
					Prepared: 01/06/2021 Analyzed: 01/06/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	25.0		97.2	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A0605 - EPA 3550B

LCS (B1A0605-BS1)

Prepared: 01/06/2021 Analyzed: 01/06/2021

Diesel (C10-C28)	1190	50.0	mg/kg	1000		119	70-130			
Residual Range Organics (C28-C40)	1230	200	"	1000		123	70-130			
Surrogate: o-Terphenyl	63		"	50.0		126	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A0605 - EPA 3550B

Matrix Spike (B1A0605-MS1)	Source: Y101023-01			Prepared: 01/06/2021 Analyzed: 01/06/2021						
Diesel (C10-C28)	1420	50.0	mg/kg	1000	599	81.7	70-130			
Residual Range Organics (C28-C40)	2080	200	"	1000	923	115	70-130			
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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A0605 - EPA 3550B

Matrix Spike Dup (B1A0605-MSD1)	Source: Y101023-01			Prepared: 01/06/2021 Analyzed: 01/06/2021						
Diesel (C10-C28)	1350	50.0	mg/kg	1000	599	75.0	70-130	4.84	35	
Residual Range Organics (C28-C40)	1890	200	"	1000	923	96.8	70-130	9.37	35	
Surrogate: o-Terphenyl	49		"	50.0		98.2	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B1A0610 - NO PREP

Duplicate (B1A0610-DUP1) Source: Y101046-01 Prepared: 01/06/2021 Analyzed: 01/06/2021

pH	7.23		pH Units		7.52			3.93	25	
----	------	--	----------	--	------	--	--	------	----	--

Batch B1A0611 - NO PREP

Blank (B1A0611-BLK1) Prepared: 01/06/2021 Analyzed: 01/06/2021

Specific Conductance (EC)	0.00330	0.00500	mmhos/cm							
---------------------------	---------	---------	----------	--	--	--	--	--	--	--

Duplicate (B1A0611-DUP1) Source: Y101046-01 Prepared: 01/06/2021 Analyzed: 01/06/2021

Specific Conductance (EC)	0.132	0.00500	mmhos/cm		0.116			12.8	25	
---------------------------	-------	---------	----------	--	-------	--	--	------	----	--

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 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.



January 12, 2021

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - King Addie M GU 1

Project Number - 90257194

Attached are your analytical results for KMG - King Addie M GU 1 received by Origins Laboratory, Inc. January 07, 2021. This project is associated with Origins project number Y101056-01.

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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B16@11'	Y101056-01	Soil	January 7, 2021 15:00	01/07/2021 16:00

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

www.originslaboratory.com page 1 of 1

Y101056

ORIGINS LABORATORY, INC

Client: Oxy Tasman Project Manager: Mike Jahn
 Address: _____ Project Name: King Addie M GU 1
 Telephone Number: _____ Project Number: 90257194
 Email Address: mjahn@tasmangeo.com Samples Collected By: BL

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	As Summ #	Other	Gr/Top	Fe	SpK			
16611	1-7-21	1500	2	X					X				X	X	X	X	


Relinquished By: _____ Date: 1-7-21 Time: _____
 Relinquished By: _____ Date: 1-7-21 Time: 1600

Received By: _____ Date: _____ Time: _____
 Received By: _____ Date: 1-7-21 Time: 1600

Turnaround Time: Same Day 24 Hr 48 Hr 72 Hr Expedite

Date Results Needed: _____

S-9

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

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

Sample Receipt Checklist

Origins Work Order: Y101056 Client: Tasman
 Client Project ID: King Addie

Checklist Completed by: SG Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 11/7/12 Airbill #: N/A

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

Cooler Number/Temperature: 1 / 5.8 °C / _____ °C / _____ °C / _____ °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⁾ ?	/			
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.

Reviewed by: [Signature] (Project Manager) Date/Time Reviewed: 11/7/12

Origins Laboratory, Inc.

Jordan A. Merrill

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B16@11'

1/7/2021 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101056-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A0703	TEM	01/07/2021	01/07/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 85.8 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A0701	TEM	01/07/2021	01/07/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 90.7 % 70-130 " " "
 Surrogate: Toluene-d8 96.6 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	1.04		me/L	1	[none]		01/08/2021	01/12/2021	
Magnesium	0.42		"	"	"		"	"	
Sodium	5.63		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B16@11'

1/7/2021 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101056-01 (Soil)**

pH in Soil by EPA 9045D

pH	7.40		pH Units	1	B1A0706	DJL	01/07/2021	01/07/2021	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	6.59			1	[none]		01/08/2021	01/12/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.102	0.00500	mmhos/cm	1	B1A0707	DJL	01/07/2021	01/07/2021	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A0701 - EPA 5030 (soil)										
Blank (B1A0701-BLK1)										
					Prepared: 01/07/2021 Analyzed: 01/07/2021					
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	0.12		"	0.125		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A0701 - EPA 5030 (soil)

LCS (B1A0701-BS1)

Prepared: 01/07/2021 Analyzed: 01/07/2021

Benzene	0.056	0.002	mg/kg	0.0500		111	70-130			
Toluene	0.048	0.002	"	0.0500		96.6	70-130			
Ethylbenzene	0.048	0.002	"	0.0500		96.8	70-130			
m,p-Xylene	0.098	0.004	"	0.100		97.8	70-130			
o-Xylene	0.048	0.002	"	0.0500		96.3	70-130			
Naphthalene	0.041	0.008	"	0.0500		81.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A0701 - EPA 5030 (soil)

Matrix Spike (B1A0701-MS1)	Source: Y101047-02			Prepared: 01/07/2021 Analyzed: 01/07/2021						
Benzene	0.054	0.002	mg/kg	0.0500	ND	108	70-130			
Toluene	0.047	0.002	"	0.0500	ND	93.7	70-130			
Ethylbenzene	0.048	0.002	"	0.0500	ND	95.0	70-130			
m,p-Xylene	0.096	0.004	"	0.100	ND	95.7	70-130			
o-Xylene	0.047	0.002	"	0.0500	ND	93.1	70-130			
Naphthalene	0.041	0.008	"	0.0500	ND	82.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A0701 - EPA 5030 (soil)

Matrix Spike Dup (B1A0701-MSD1)	Source: Y101047-02			Prepared: 01/07/2021 Analyzed: 01/07/2021						
Benzene	0.057	0.002	mg/kg	0.0500	ND	114	70-130	5.07	20	
Toluene	0.049	0.002	"	0.0500	ND	98.0	70-130	4.51	20	
Ethylbenzene	0.049	0.002	"	0.0500	ND	97.3	70-130	2.37	20	
m,p-Xylene	0.098	0.004	"	0.100	ND	97.9	70-130	2.21	20	
o-Xylene	0.049	0.002	"	0.0500	ND	97.0	70-130	4.12	20	
Naphthalene	0.045	0.008	"	0.0500	ND	90.2	70-130	9.42	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A0703 - EPA 3550B										
Blank (B1A0703-BLK1)										
					Prepared: 01/07/2021 Analyzed: 01/07/2021					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	55		"	50.0		110	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A0703 - EPA 3550B

LCS (B1A0703-BS1)

Prepared: 01/07/2021 Analyzed: 01/07/2021

Diesel (C10-C28)	1060	50.0	mg/kg	1000		106	70-130			
Residual Range Organics (C28-C40)	1130	200	"	1000		113	70-130			
Surrogate: o-Terphenyl	60		"	50.0		120	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A0703 - EPA 3550B

Matrix Spike (B1A0703-MS1)	Source: Y101047-02			Prepared: 01/07/2021 Analyzed: 01/07/2021						
Diesel (C10-C28)	942	50.0	mg/kg	1000	ND	94.2	70-130			
Residual Range Organics (C28-C40)	979	200	"	1000	ND	97.9	70-130			
Surrogate: o-Terphenyl	50		"	50.0		99.7	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A0703 - EPA 3550B

Matrix Spike Dup (B1A0703-MSD1)	Source: Y101047-02			Prepared: 01/07/2021 Analyzed: 01/07/2021						
Diesel (C10-C28)	901	50.0	mg/kg	1000	ND	90.1	70-130	4.46	35	
Residual Range Organics (C28-C40)	935	200	"	1000	ND	93.5	70-130	4.66	35	
Surrogate: o-Terphenyl	46		"	50.0		92.2	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B1A0706 - NO PREP

Duplicate (B1A0706-DUP1)		Source: Y101056-01			Prepared: 01/07/2021 Analyzed: 01/07/2021					
pH	7.30		pH Units		7.40			1.36	25	

Batch B1A0707 - NO PREP

Blank (B1A0707-BLK1)		Prepared: 01/07/2021 Analyzed: 01/07/2021								
-----------------------------	--	---	--	--	--	--	--	--	--	--

Specific Conductance (EC)	0.00220	0.00500	mmhos/cm							
Duplicate (B1A0707-DUP1)		Source: Y101056-01			Prepared: 01/07/2021 Analyzed: 01/07/2021					
Specific Conductance (EC)	0.0988	0.00500	mmhos/cm		0.102			2.89	25	

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 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.



January 15, 2021

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - King Addie M GU 1

Project Number - 90257194

Attached are your analytical results for KMG - King Addie M GU 1 received by Origins Laboratory, Inc. January 11, 2021. This project is associated with Origins project number Y101090-01.

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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B17@7'	Y101090-01	Soil	January 11, 2021 15:30	01/11/2021 17:04
B18@7'	Y101090-02	Soil	January 11, 2021 15:32	01/11/2021 17:04
B19@8'	Y101090-03	Soil	January 11, 2021 15:34	01/11/2021 17:04
S17@5'	Y101090-04	Soil	January 11, 2021 15:36	01/11/2021 17:04
S18@5'	Y101090-05	Soil	January 11, 2021 15:38	01/11/2021 17:04
S19@4'	Y101090-06	Soil	January 11, 2021 15:40	01/11/2021 17:04
E10@5'	Y101090-07	Soil	January 11, 2021 15:42	01/11/2021 17:04

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

www.originslaboratory.com

page 1 of 1

Y10190

ORIGINS
 LABORATORY, INC

Client: OXY / Tasman
 Address:
 Telephone Number:
 Email Address: mjahn@tasman-geos.com

Project Manager: Mike Jahn
 Project Name: King Addie M GU 1
 Project Number: 90257194
 Samples Collected By: A

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 Summa #		
B1707	1-11-21	1530	2	Y				X			X	1
B1807		1533									X	2
B1905		1534									X	3
S1705		1536	1								X	4
S1805		1538									X	5
S1904		1540									X	6
E1005		1542									X	7
												8
												9
												10

Turnaround Time:
 Same Day
 24 Hr
 48 Hr
 72 Hr
 Standard

Date: 1/11/21
 Time: 11:04
 Received By: [Signature]
 Date: 1/11/21
 Time: 17:04
 Received By: [Signature]

89

Date Results Needed

Origins Laboratory, Inc.

Jordan A. Merrill

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y101090

Client: Tasman

Client Project ID: King Addie

Checklist Completed by: SG

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

Date/time completed: 1/11/21

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 8.8 °C _____ °C _____ °C _____ °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 1/11/21

Origins Laboratory, Inc.

[Signature]

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B17@7'

1/11/2021 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101090-01 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A1104	TEM	01/11/2021	01/12/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 84.7 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A1112	TEM	01/11/2021	01/11/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.7 % 70-130 " " "
 Surrogate: Toluene-d8 102 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.2 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	2.48		me/L	1	[none]		01/13/2021	01/15/2021	
Magnesium	1.11		"	"	"		"	"	
Sodium	6.00		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B17@7'

1/11/2021 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101090-01 (Soil)**

pH in Soil by EPA 9045D

pH	8.64		pH Units	1	B1A1109	DJL	01/11/2021	01/11/2021	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	4.48			1	[none]		01/13/2021	01/15/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.126	0.00549	mmhos/cm	1	B1A1110	DJL	01/11/2021	01/11/2021	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B18@7'
1/11/2021 3:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101090-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A1104	TEM	01/11/2021	01/12/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U
<i>Surrogate: o-Terphenyl</i>	97.9 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	9.37	5.00	mg/kg	25	B1A1112	TEM	01/11/2021	01/11/2021	
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	99.4 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	103 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	95.9 %	70-130			"	"	"	"	

Metals (Saturated Paste Prep)

Calcium	5.56		me/L	1	[none]		01/13/2021	01/15/2021	
Magnesium	2.47		"	"	"		"	"	
Sodium	9.52		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B18@7'

1/11/2021 3:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101090-02 (Soil)

pH in Soil by EPA 9045D

pH	8.27		pH Units	1	B1A1109	DJL	01/11/2021	01/11/2021	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	4.75			1	[none]		01/13/2021	01/15/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.171	0.00500	mmhos/cm	1	B1A1110	DJL	01/11/2021	01/11/2021	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B19@8'

1/11/2021 3:34:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101090-03 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A1104	TEM	01/11/2021	01/12/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 85.0 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A1112	TEM	01/11/2021	01/11/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.3 % 70-130 " " "
 Surrogate: Toluene-d8 100 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 96.3 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	2.01		me/L	1	[none]		01/13/2021	01/15/2021	
Magnesium	1.06		"	"	"		"	"	
Sodium	4.68		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B19@8'

1/11/2021 3:34:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101090-03 (Soil)**

pH in Soil by EPA 9045D

pH	8.33		pH Units	1	B1A1109	DJL	01/11/2021	01/11/2021	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	3.78			1	[none]		01/13/2021	01/15/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.100	0.00500	mmhos/cm	1	B1A1110	DJL	01/11/2021	01/11/2021	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S17@5'

1/11/2021 3:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101090-04 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	109	25.0	mg/kg	1	B1A1104	TEM	01/11/2021	01/12/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U
<i>Surrogate: o-Terphenyl</i>	79.6 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	1080	50.0	mg/kg	250	B1A1112	TEM	01/11/2021	01/11/2021	
Benzene	ND	0.050	"	25	"	TEM	"	01/12/2021	U
Toluene	0.060	0.050	"	"	"	TEM	"	"	
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	1.13	0.200	"	"	"	TEM	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	96.3 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	98.4 %	70-130			"	"	"	01/11/2021	
<i>Surrogate: 4-Bromofluorobenzene</i>	121 %	70-130			"	"	"	01/12/2021	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S18@5'

1/11/2021 3:38:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101090-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A1104	TEM	01/11/2021	01/12/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 80.0 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A1112	TEM	01/11/2021	01/11/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.8 % 70-130 " " "
 Surrogate: Toluene-d8 98.6 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S19@4'

1/11/2021 3:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101090-06 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	64.1	25.0	mg/kg	1	B1A1104	TEM	01/11/2021	01/12/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U
<i>Surrogate: o-Terphenyl</i>	82.2 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	268	5.00	mg/kg	25	B1A1112	TEM	01/11/2021	01/11/2021	
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	99.0 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	100 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	101 %	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

E10@5'

1/11/2021 3:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101090-07 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	673	25.0	mg/kg	1	B1A1104	TEM	01/11/2021	01/12/2021	
Residual Range Organics (C28-C40)	107	100	"	"	"	TEM	"	"	

Surrogate: *o*-Terphenyl 95.4 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	1420	50.0	mg/kg	250	B1A1112	TEM	01/11/2021	01/11/2021	
Benzene	ND	0.050	"	25	"	TEM	"	01/12/2021	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	0.098	0.050	"	"	"	TEM	"	"	
Xylenes, total	10.2	0.050	"	"	"	TEM	"	"	
Naphthalene	1.41	0.200	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4 97.0 % 70-130 " " "
 Surrogate: Toluene-d8 116 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " 01/11/2021

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1104 - EPA 3550B										
Blank (B1A1104-BLK1)										
					Prepared: 01/11/2021 Analyzed: 01/11/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	25.0		85.9	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1104 - EPA 3550B

LCS (B1A1104-BS1)

Prepared: 01/11/2021 Analyzed: 01/11/2021

Diesel (C10-C28)	996	50.0	mg/kg	1000		99.6	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000		104	70-130			
Surrogate: o-Terphenyl	54		"	50.0		109	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1104 - EPA 3550B

Matrix Spike (B1A1104-MS1)	Source: Y101077-21			Prepared: 01/11/2021 Analyzed: 01/11/2021						
Diesel (C10-C28)	1020	50.0	mg/kg	1000	ND	102	70-130			
Residual Range Organics (C28-C40)	1090	200	"	1000	ND	109	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1104 - EPA 3550B

Matrix Spike Dup (B1A1104-MSD1)	Source: Y101077-21			Prepared: 01/11/2021 Analyzed: 01/11/2021						
Diesel (C10-C28)	990	50.0	mg/kg	1000	ND	99.0	70-130	3.27	35	
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	70-130	6.15	35	
Surrogate: o-Terphenyl	55		"	50.0		109	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1112 - EPA 5030 (soil)

Blank (B1A1112-BLK1)

Prepared: 01/11/2021 Analyzed: 01/11/2021

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		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.9	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1112 - EPA 5030 (soil)

LCS (B1A1112-BS1)

Prepared: 01/11/2021 Analyzed: 01/11/2021

Benzene	0.090	0.002	mg/kg	0.100		90.2	70-130			
Toluene	0.093	0.002	"	0.100		92.6	70-130			
Ethylbenzene	0.095	0.002	"	0.100		94.8	70-130			
m,p-Xylene	0.190	0.004	"	0.200		94.9	70-130			
o-Xylene	0.097	0.002	"	0.100		97.2	70-130			
Naphthalene	0.108	0.008	"	0.100		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1112 - EPA 5030 (soil)

Matrix Spike (B1A1112-MS1)	Source: Y101085-03			Prepared: 01/11/2021 Analyzed: 01/11/2021						
Benzene	0.108	0.002	mg/kg	0.100	108	70-130				
Toluene	0.113	0.002	"	0.100	113	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	0.104	0.002	"	0.100	104	70-130				
Naphthalene	0.103	0.008	"	0.100	103	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	106	70-130				
Surrogate: Toluene-d8	0.13		"	0.125	103	70-130				
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	101	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1112 - EPA 5030 (soil)

Matrix Spike Dup (B1A1112-MSD1)	Source: Y101085-03			Prepared: 01/11/2021 Analyzed: 01/11/2021						
Benzene	0.101	0.002	mg/kg	0.100	101	70-130	7.30	20		
Toluene	0.105	0.002	"	0.100	105	70-130	7.06	20		
Ethylbenzene	0.098	0.002	"	0.100	97.9	70-130	7.40	20		
m,p-Xylene	0.193	0.004	"	0.200	96.4	70-130	7.84	20		
o-Xylene	0.096	0.002	"	0.100	96.2	70-130	7.47	20		
Naphthalene	0.104	0.008	"	0.100	104	70-130	1.00	20		
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	106	70-130				
Surrogate: Toluene-d8	0.13		"	0.125	104	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B1A1109 - NO PREP

Duplicate (B1A1109-DUP1)					Source: Y101085-01					Prepared: 01/11/2021 Analyzed: 01/11/2021
pH	7.34		pH Units		7.75			5.43	25	

Batch B1A1110 - NO PREP

Blank (B1A1110-BLK1)										Prepared: 01/11/2021 Analyzed: 01/11/2021
Specific Conductance (EC)	0.00210	0.00500	mmhos/cm							
Duplicate (B1A1110-DUP1)					Source: Y101085-01					Prepared: 01/11/2021 Analyzed: 01/11/2021
Specific Conductance (EC)	1.36	0.00502	mmhos/cm		1.13			18.2	25	

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 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.

January 14, 2021

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - King Addie M GU 1

Project Number - 90257194

Attached are your analytical results for KMG - King Addie M GU 1 received by Origins Laboratory, Inc. January 13, 2021. This project is associated with Origins project number Y101118-01.

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



Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N12@5'	Y101118-01	Soil	January 13, 2021 13:30	01/13/2021 15:30
S20@5'	Y101118-02	Soil	January 13, 2021 13:32	01/13/2021 15:30
S21@5'	Y101118-03	Soil	January 13, 2021 13:34	01/13/2021 15:30
E11@5'	Y101118-04	Soil	January 13, 2021 13:36	01/13/2021 15:30

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, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

www.originslaboratory.com

710118

page of

ORIGINS
LABORATORY, INC

Project Manager: Mike Jahn
Project Name: King Addie M GU #1
Project Number: 90257194
Samples Collected By: BL

Client: Oxy/Tasman
Address:
Telephone Number:
Email Address: m.jahn@tasman-geo.com

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/Sediment	Other	Gravel		Other	
N1205'	1-13-21	1320	1	X				X			X	X			
S2005'		1328	1								X	X			
S2105'		1334	1								X	X			pl. Tib
E1105'		1336	1								X	X			pl. 2000
Relinquished By:		Date: 1-13-21	Time: 1530	Received By:		Date: 1/13/21	Time: 1530				Turnaround Time:	24 Hr <input type="checkbox"/>			
Relinquished By:		Date: 1-13-21	Time:	Received By:		Date:	Time:				Same Day <input type="checkbox"/>	48 Hr <input type="checkbox"/>	72 Hr <input type="checkbox"/>	Standard <input type="checkbox"/>	

4.3 Date Results Needed

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y101118

Client: Tasman
 Client Project ID: KMG-king addie

Checklist Completed by: jm

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

Date/time completed: 1-13-21

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 4-3 °C _____ °C _____ °C _____ °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⁾ ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			X	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			X	
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?			X	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
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)			X	
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: jm (Project Manager)

Date/Time Reviewed: 1-13-21

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

N12@5'

1/13/2021 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101118-01 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	58.6	25.0	mg/kg	1	B1A1306	TEM	01/13/2021	01/13/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl 93.0 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	10.4	5.00	mg/kg	25	B1A1305	TEM	01/13/2021	01/13/2021	
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 97.8 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 99.3 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S20@5'

1/13/2021 1:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101118-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A1306	TEM	01/13/2021	01/13/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 104 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A1305	TEM	01/13/2021	01/13/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 96.7 % 70-130 " " "
 Surrogate: Toluene-d8 102 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 99.7 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S21@5'

1/13/2021 1:34:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101118-03 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	550	25.0	mg/kg	1	B1A1306	TEM	01/13/2021	01/13/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	110 %	50-150			"	"	"	"	
------------------------	-------	--------	--	--	---	---	---	---	--

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	975	50.0	mg/kg	250	B1A1305	TEM	01/13/2021	01/13/2021	
Benzene	ND	0.050	"	25	"	TEM	"	01/13/2021	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	0.098	0.050	"	"	"	TEM	"	"	
Xylenes, total	4.18	0.050	"	"	"	TEM	"	"	
Naphthalene	0.574	0.200	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	112 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	138 %	70-130			"	"	"	"	S-04

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

E11@5'

1/13/2021 1:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
 Y101118-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	821	25.0	mg/kg	1	B1A1306	TEM	01/13/2021	01/13/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl 135 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	682	50.0	mg/kg	250	B1A1305	TEM	01/13/2021	01/13/2021	
Benzene	ND	0.050	"	25	"	TEM	"	01/13/2021	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	0.062	0.050	"	"	"	TEM	"	"	
Xylenes, total	6.77	0.050	"	"	"	TEM	"	"	
Naphthalene	0.608	0.200	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4 95.8 % 70-130 " " "

Surrogate: Toluene-d8 118 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 129 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1305 - EPA 5030 (soil)

Blank (B1A1305-BLK1)

Prepared: 01/13/2021 Analyzed: 01/13/2021

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	0.15		"	0.125		120	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.8	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1305 - EPA 5030 (soil)

LCS (B1A1305-BS1)

Prepared: 01/13/2021 Analyzed: 01/13/2021

Benzene	0.050	0.002	mg/kg	0.0500		99.4	70-130			
Toluene	0.048	0.002	"	0.0500		96.4	70-130			
Ethylbenzene	0.045	0.002	"	0.0500		90.8	70-130			
m,p-Xylene	0.095	0.004	"	0.100		95.1	70-130			
o-Xylene	0.047	0.002	"	0.0500		93.2	70-130			
Naphthalene	0.047	0.008	"	0.0500		94.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		121	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.6	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1305 - EPA 5030 (soil)

Matrix Spike (B1A1305-MS1)	Source: Y101115-01			Prepared: 01/13/2021 Analyzed: 01/13/2021						
Benzene	0.052	0.002	mg/kg	0.0500	ND	105	70-130			
Toluene	0.051	0.002	"	0.0500	ND	102	70-130			
Ethylbenzene	0.047	0.002	"	0.0500	ND	94.3	70-130			
m,p-Xylene	0.100	0.004	"	0.100	ND	99.7	70-130			
o-Xylene	0.050	0.002	"	0.0500	ND	99.0	70-130			
Naphthalene	0.054	0.008	"	0.0500	ND	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.16		"	0.125		124	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.9	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1305 - EPA 5030 (soil)

Matrix Spike Dup (B1A1305-MSD1)	Source: Y101115-01			Prepared: 01/13/2021 Analyzed: 01/13/2021						
Benzene	0.052	0.002	mg/kg	0.0500	ND	104	70-130	0.881	20	
Toluene	0.050	0.002	"	0.0500	ND	101	70-130	1.10	20	
Ethylbenzene	0.047	0.002	"	0.0500	ND	94.0	70-130	0.255	20	
m,p-Xylene	0.100	0.004	"	0.100	ND	99.8	70-130	0.0601	20	
o-Xylene	0.050	0.002	"	0.0500	ND	99.2	70-130	0.121	20	
Naphthalene	0.058	0.008	"	0.0500	ND	115	70-130	5.93	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		123	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.1	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1306 - EPA 3550B										
Blank (B1A1306-BLK1)										
					Prepared: 01/13/2021 Analyzed: 01/13/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	25.0		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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1306 - EPA 3550B										
LCS (B1A1306-BS1)										
					Prepared: 01/13/2021 Analyzed: 01/13/2021					
Diesel (C10-C28)	906	50.0	mg/kg	1000		90.6	70-130			
Residual Range Organics (C28-C40)	933	200	"	1000		93.3	70-130			
Surrogate: o-Terphenyl	48		"	50.0		95.2	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1306 - EPA 3550B

Matrix Spike (B1A1306-MS1)	Source: Y101117-01			Prepared: 01/13/2021 Analyzed: 01/13/2021						
Diesel (C10-C28)	5370	50.0	mg/kg	1000	3160	221	70-130			QM-07
Residual Range Organics (C28-C40)	2800	200	"	1000	1220	158	70-130			QM-07
Surrogate: o-Terphenyl	62		"	50.0		124	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1306 - EPA 3550B										
Matrix Spike Dup (B1A1306-MSD1)		Source: Y101117-01			Prepared: 01/13/2021 Analyzed: 01/13/2021					
Diesel (C10-C28)	3190	50.0	mg/kg	1000	3160	3.16	70-130	50.9	35	QM-07, QR-03
Residual Range Organics (C28-C40)	1930	200	"	1000	1220	71.1	70-130	36.5	35	QR-03
Surrogate: o-Terphenyl	61		"	50.0		122	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

Notes and Definitions

- U Sample is Non-Detect.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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.

Jen Pellegrini, Project Manager



January 20, 2021

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - King Addie M GU 1

Project Number - 90257194

Attached are your analytical results for KMG - King Addie M GU 1 received by Origins Laboratory, Inc. January 14, 2021. This project is associated with Origins project number Y101140-01.

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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B20@11'	Y101140-01	Soil	January 14, 2021 15:00	01/14/2021 16:40
W15@5'	Y101140-02	Soil	January 14, 2021 15:02	01/14/2021 16:40
W16@8'	Y101140-03	Soil	January 14, 2021 15:04	01/14/2021 16:40

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, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

www.originslaboratory.com

page of



~~901140~~ 901140

Client: Oxy Tasman Project Manager: Mike Jahn
Address: _____ Project Name: King Addie M GU 1
Telephone Number: _____ Project Number: 90257194
Email Address: Mjohn@tasman-geo.com Samples Collected By: BL

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 Summa #	Other	DRA/DE	FC	PH	SAR			
B20011'	1-14-21	1500	2	X					X			X	X	X				
W1505'		1502	1									X	X					
W1608'		1504										X						

Relinquished By: BL Date: 1-14-21 Time: _____
Relinquished By: _____ Date: _____ Time: _____

Received By: _____ Date: 1/14/21 Time: 1600
Received By: _____ Date: _____ Time: _____

Turnaround Time: 24 Hr 48 Hr 72 Hr
 Some Day Standard

Date Results Needed

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: y101140

Client: Tasman
 Client Project ID: King Addie

Checklist Completed by: SG

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

Date/time completed: 1/14/21

Airbill #: N/A

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

Cooler Number/Temperature: 1, 5.1 °C / _____ °C / _____ °C / _____ °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⁾ ?				
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 1/14/21

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B20@11'
1/14/2021 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101140-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A1402	KDK	01/14/2021	01/14/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 84.3 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A1414	TEM	01/14/2021	01/14/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	01/14/2021	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 97.6 % 70-130 " " "
 Surrogate: Toluene-d8 97.7 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	2.13		me/L	1	[none]		01/18/2021	01/20/2021	
Magnesium	1.08		"	"	"		"	"	
Sodium	5.48		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B20@11'

1/14/2021 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101140-01 (Soil)**

pH in Soil by EPA 9045D

pH	7.49		pH Units	1	B1A1415	DJL	01/14/2021	01/14/2021	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	4.33			1	[none]		01/18/2021	01/20/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0870	0.00500	mmhos/cm	1	B1A1416	DJL	01/14/2021	01/14/2021	
---------------------------	--------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

W15@5'
1/14/2021 3:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101140-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A1402	KDK	01/14/2021	01/14/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 83.9 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A1414	TEM	01/14/2021	01/14/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	01/14/2021	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.6 % 70-130 " " "
 Surrogate: Toluene-d8 99.5 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

W16@8'

1/14/2021 3:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101140-03 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A1402	KDK	01/14/2021	01/14/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 79.5 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A1414	TEM	01/14/2021	01/14/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 95.9 % 70-130 " " "
Surrogate: Toluene-d8 99.3 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1402 - EPA 3550B										
Blank (B1A1402-BLK1)										
					Prepared: 01/14/2021 Analyzed: 01/14/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	27		"	25.0		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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1402 - EPA 3550B

LCS (B1A1402-BS1)

Prepared: 01/14/2021 Analyzed: 01/14/2021

Diesel (C10-C28)	963	50.0	mg/kg	1000		96.3	70-130			
Residual Range Organics (C28-C40)	993	200	"	1000		99.3	70-130			
Surrogate: o-Terphenyl	50		"	50.0		99.3	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1402 - EPA 3550B

Matrix Spike (B1A1402-MS1)	Source: Y101123-01			Prepared: 01/14/2021 Analyzed: 01/14/2021						
Diesel (C10-C28)	993	50.0	mg/kg	1000	ND	99.3	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1402 - EPA 3550B										
Matrix Spike Dup (B1A1402-MSD1)		Source: Y101123-01			Prepared: 01/14/2021 Analyzed: 01/14/2021					
Diesel (C10-C28)	938	50.0	mg/kg	1000	ND	93.8	70-130	5.62	35	
Residual Range Organics (C28-C40)	930	200	"	1000	ND	93.0	70-130	11.1	35	
Surrogate: o-Terphenyl	46		"	50.0		92.4	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1414 - EPA 5030 (soil)

Blank (B1A1414-BLK1)

Prepared: 01/14/2021 Analyzed: 01/14/2021

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		98.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1414 - EPA 5030 (soil)

LCS (B1A1414-BS1)

Prepared: 01/14/2021 Analyzed: 01/14/2021

Benzene	0.104	0.002	mg/kg	0.100		104	70-130			
Toluene	0.111	0.002	"	0.100		111	70-130			
Ethylbenzene	0.114	0.002	"	0.100		114	70-130			
m,p-Xylene	0.225	0.004	"	0.200		112	70-130			
o-Xylene	0.112	0.002	"	0.100		112	70-130			
Naphthalene	0.115	0.008	"	0.100		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1414 - EPA 5030 (soil)

Matrix Spike (B1A1414-MS1)	Source: Y101140-01			Prepared: 01/14/2021 Analyzed: 01/14/2021						
Benzene	0.099	0.002	mg/kg	0.100	ND	99.1	70-130			
Toluene	0.104	0.002	"	0.100	ND	104	70-130			
Ethylbenzene	0.101	0.002	"	0.100	ND	101	70-130			
m,p-Xylene	0.203	0.004	"	0.200	ND	102	70-130			
o-Xylene	0.108	0.002	"	0.100	ND	108	70-130			
Naphthalene	0.108	0.008	"	0.100	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.5	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1414 - EPA 5030 (soil)

Matrix Spike Dup (B1A1414-MSD1)	Source: Y101140-01			Prepared: 01/14/2021 Analyzed: 01/14/2021						
Benzene	0.082	0.002	mg/kg	0.100	ND	81.6	70-130	19.4	20	
Toluene	0.084	0.002	"	0.100	ND	84.2	70-130	20.9	20	QR-02
Ethylbenzene	0.087	0.002	"	0.100	ND	86.8	70-130	15.6	20	
m,p-Xylene	0.172	0.004	"	0.200	ND	86.2	70-130	16.5	20	
o-Xylene	0.088	0.002	"	0.100	ND	87.6	70-130	20.4	20	QR-02
Naphthalene	0.097	0.008	"	0.100	ND	97.1	70-130	10.2	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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, Project Manager

January 20, 2021

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - King Addie M GU 1

Project Number - 90257194

Attached are your analytical results for KMG - King Addie M GU 1 received by Origins Laboratory, Inc. January 15, 2021. This project is associated with Origins project number Y101156-01.

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



Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B21@11'	Y101156-01	Soil	January 15, 2021 15:00	01/15/2021 16:49
B22@11'	Y101156-02	Soil	January 15, 2021 15:02	01/15/2021 16:49
B23@11'	Y101156-03	Soil	January 15, 2021 15:04	01/15/2021 16:49
S22@8'	Y101156-04	Soil	January 15, 2021 15:06	01/15/2021 16:49
S23@8'	Y101156-05	Soil	January 15, 2021 15:08	01/15/2021 16:49

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, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

www.originslaboratory.com

page 1 of 1



7101156

Client: Oxy / Tasman
 Address: _____
 Telephone Number: _____
 Email Address: Wjahn@tasman-geo.com

Project Manager: Mike Jahn
 Project Name: King Addie M GU 1
 Project Number: 90257194
 Samples Collected By: BL

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	Turnaround Time			
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	At Summa #				Other	DR/RO	FC
B21 P 11'	1-15-21	1508	2	X					X			X	X	X	g10 table	<input type="checkbox"/> 24 Hr <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Shortened
B22 P 11'		1508	1								X	X	X			
B23 P 11'		1504	1								X	X	X			
S2208'		1506	1								X	X				
S2308'		1508	1						X		X	X				
Relinquished By: <u>BL</u>	Date: 1-15-21	Time:	Date: 11/5/21	Time: 10:49	Received By: <u>[Signature]</u>	Date: 11/5/21	Time: 10:49	Received By: <u>[Signature]</u>	Date: 11/5/21	Time: 10:49	Turnaround Time: <input checked="" type="checkbox"/> Same Day					
Relinquished By:	Date:	Time:	Date:	Time:	Received By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time: <input type="checkbox"/> 24 Hr					

Date Results Needed: 46

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y101156 Client: Tasman
 Client Project ID: King Addie

Checklist Completed by: SG Shipped Via: HD
 Date/time completed: 1/15/21 (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 / 4.6 °c / _____ °c / _____ °c (Describe) / _____ °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: [Signature] Date/Time Reviewed: 1/15/21

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B21@11'
1/15/2021 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101156-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A1508	KDK	01/15/2021	01/15/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 82.0 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	8.24	5.00	mg/kg	25	B1A1506	TEM	01/15/2021	01/15/2021	
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	0.175	0.050	"	"	"	TEM	"	"	
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 96.5 % 70-130 " " "
Surrogate: Toluene-d8 98.2 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	10.35		me/L	1	[none]		01/18/2021	01/20/2021	
Magnesium	6.73		"	"	"		"	"	
Sodium	12.32		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B21@11'
1/15/2021 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101156-01 (Soil)

pH in Soil by EPA 9045D

pH	8.25		pH Units	1	B1A1509	DJL	01/15/2021	01/15/2021	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	4.22			1	[none]		01/18/2021	01/20/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.154	0.00500	mmhos/cm	1	B1A1510	DJL	01/15/2021	01/15/2021	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B22@11'
1/15/2021 3:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101156-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A1508	KDK	01/15/2021	01/15/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 88.5 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A1506	TEM	01/15/2021	01/15/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 95.4 % 70-130 " " "
 Surrogate: Toluene-d8 98.6 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	2.64		me/L	1	[none]		01/18/2021	01/20/2021	
Magnesium	1.25		"	"	"		"	"	
Sodium	6.73		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B22@11'

1/15/2021 3:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101156-02 (Soil)

pH in Soil by EPA 9045D

pH	8.13		pH Units	1	B1A1509	DJL	01/15/2021	01/15/2021	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	4.83			1	[none]		01/18/2021	01/20/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.110	0.00500	mmhos/cm	1	B1A1510	DJL	01/15/2021	01/15/2021	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B23@11'
1/15/2021 3:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101156-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A1508	KDK	01/15/2021	01/15/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 87.6 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A1506	TEM	01/15/2021	01/15/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 95.3 % 70-130 " " "
 Surrogate: Toluene-d8 99.2 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	2.52		me/L	1	[none]		01/18/2021	01/20/2021	
Magnesium	1.14		"	"	"		"	"	
Sodium	5.45		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B23@11'

1/15/2021 3:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101156-03 (Soil)

pH in Soil by EPA 9045D

pH	8.19		pH Units	1	B1A1509	DJL	01/15/2021	01/15/2021	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	4.03			1	[none]		01/18/2021	01/20/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0889	0.00505	mmhos/cm	1	B1A1510	DJL	01/15/2021	01/15/2021	
---------------------------	--------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S22@8'

1/15/2021 3:06:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101156-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	666	25.0	mg/kg	1	B1A1508	KDK	01/15/2021	01/15/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 98.9 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	4610	50.0	mg/kg	250	B1A1506	TEM	01/15/2021	01/15/2021	
Benzene	0.780	0.050	"	25	"	TEM	"	01/15/2021	
Toluene	0.242	0.050	"	"	"	TEM	"	"	
Ethylbenzene	14.8	0.498	"	250	"	TEM	"	01/15/2021	
Xylenes, total	161	0.498	"	"	"	TEM	"	"	
Naphthalene	3.40	0.200	"	25	"	TEM	"	01/15/2021	

Surrogate: 1,2-Dichloroethane-d4 92.3 % 70-130 " " "
 Surrogate: Toluene-d8 135 % 70-130 " " " 01/15/2021
 Surrogate: 4-Bromofluorobenzene 109 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S23@8'

1/15/2021 3:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101156-05 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	137	25.0	mg/kg	1	B1A1508	KDK	01/15/2021	01/15/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	87.6 %	50-150			"	"	"	"	
------------------------	--------	--------	--	--	---	---	---	---	--

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	272	50.0	mg/kg	250	B1A1506	TEM	01/15/2021	01/15/2021	
Benzene	ND	0.050	"	25	"	TEM	"	01/15/2021	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	0.130	0.050	"	"	"	TEM	"	"	
Xylenes, total	0.259	0.050	"	"	"	TEM	"	"	
Naphthalene	0.636	0.200	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	112 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	109 %	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1506 - EPA 5030 (soil)

Blank (B1A1506-BLK1)

Prepared: 01/15/2021 Analyzed: 01/15/2021

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		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1506 - EPA 5030 (soil)

LCS (B1A1506-BS1)

Prepared: 01/15/2021 Analyzed: 01/15/2021

Benzene	0.052	0.002	mg/kg	0.0500		104	70-130			
Toluene	0.051	0.002	"	0.0500		102	70-130			
Ethylbenzene	0.051	0.002	"	0.0500		101	70-130			
m,p-Xylene	0.105	0.004	"	0.100		105	70-130			
o-Xylene	0.052	0.002	"	0.0500		104	70-130			
Naphthalene	0.055	0.008	"	0.0500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.2	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1506 - EPA 5030 (soil)

Matrix Spike (B1A1506-MS1)	Source: Y101150-01			Prepared: 01/15/2021 Analyzed: 01/15/2021						
Benzene	0.052	0.002	mg/kg	0.0500	ND	104	70-130			
Toluene	0.049	0.002	"	0.0500	ND	98.6	70-130			
Ethylbenzene	0.049	0.002	"	0.0500	ND	98.2	70-130			
m,p-Xylene	0.102	0.004	"	0.100	ND	102	70-130			
o-Xylene	0.051	0.002	"	0.0500	ND	103	70-130			
Naphthalene	0.057	0.008	"	0.0500	0.001	112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.1	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1506 - EPA 5030 (soil)

Matrix Spike Dup (B1A1506-MSD1)	Source: Y101150-01			Prepared: 01/15/2021 Analyzed: 01/15/2021						
Benzene	0.053	0.002	mg/kg	0.0500	ND	105	70-130	0.955	20	
Toluene	0.050	0.002	"	0.0500	ND	99.5	70-130	0.929	20	
Ethylbenzene	0.050	0.002	"	0.0500	ND	100	70-130	1.98	20	
m,p-Xylene	0.103	0.004	"	0.100	ND	103	70-130	0.545	20	
o-Xylene	0.052	0.002	"	0.0500	ND	105	70-130	1.92	20	
Naphthalene	0.059	0.008	"	0.0500	0.001	116	70-130	3.36	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1508 - EPA 3550B										
Blank (B1A1508-BLK1)										
					Prepared: 01/15/2021 Analyzed: 01/15/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	25.0		80.1	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1508 - EPA 3550B

LCS (B1A1508-BS1)

Prepared: 01/15/2021 Analyzed: 01/15/2021

Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	70-130			
Residual Range Organics (C28-C40)	1090	200	"	1000		109	70-130			
Surrogate: o-Terphenyl	59		"	50.0		118	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1508 - EPA 3550B

Matrix Spike (B1A1508-MS1)	Source: Y101134-01			Prepared: 01/15/2021 Analyzed: 01/15/2021						
Diesel (C10-C28)	1070	50.0	mg/kg	1000	ND	107	70-130			
Residual Range Organics (C28-C40)	1130	200	"	1000	79.8	105	70-130			
Surrogate: o-Terphenyl	56		"	50.0		111	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1508 - EPA 3550B										
Matrix Spike Dup (B1A1508-MSD1)		Source: Y101134-01			Prepared: 01/15/2021 Analyzed: 01/15/2021					
Diesel (C10-C28)	860	50.0	mg/kg	1000	ND	86.0	70-130	22.0	35	
Residual Range Organics (C28-C40)	919	200	"	1000	79.8	83.9	70-130	20.3	35	
Surrogate: o-Terphenyl	46		"	50.0		92.2	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B1A1509 - NO PREP

Duplicate (B1A1509-DUP1)

Source: Y101156-01

Prepared: 01/15/2021 Analyzed: 01/15/2021

pH	8.07		pH Units		8.25			2.21	25	
----	------	--	----------	--	------	--	--	------	----	--

Batch B1A1510 - NO PREP

Blank (B1A1510-BLK1)

Prepared: 01/15/2021 Analyzed: 01/15/2021

Specific Conductance (EC)	0.00450	0.00500	mmhos/cm							
---------------------------	---------	---------	----------	--	--	--	--	--	--	--

Duplicate (B1A1510-DUP1)

Source: Y101156-01

Prepared: 01/15/2021 Analyzed: 01/15/2021

Specific Conductance (EC)	0.172	0.00500	mmhos/cm		0.154			11.5	25	
---------------------------	-------	---------	----------	--	-------	--	--	------	----	--

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

Notes and Definitions

U Sample is Non-Detect.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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, Project Manager



January 25, 2021

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - King Addie M GU 1

Project Number - 90257194

Attached are your analytical results for KMG - King Addie M GU 1 received by Origins Laboratory, Inc. January 19, 2021. This project is associated with Origins project number Y101185-01.

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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B24@11'	Y101185-01	Soil	January 19, 2021 15:45	01/19/2021 17:46
B25@11'	Y101185-02	Soil	January 19, 2021 15:47	01/19/2021 17:46
B26@11'	Y101185-03	Soil	January 19, 2021 15:49	01/19/2021 17:46
B27@11'	Y101185-04	Soil	January 19, 2021 15:51	01/19/2021 17:46
N13@9'	Y101185-05	Soil	January 19, 2021 15:52	01/19/2021 17:46
N14@9'	Y101185-06	Soil	January 19, 2021 15:54	01/19/2021 17:46
S24@9'	Y101185-07	Soil	January 19, 2021 15:56	01/19/2021 17:46
S25@9'	Y101185-08	Soil	January 19, 2021 15:58	01/19/2021 17:46
S26@9'	Y101185-09	Soil	January 19, 2021 16:00	01/19/2021 17:46
W17@9'	Y101185-10	Soil	January 19, 2021 16:02	01/19/2021 17:46
W18@9'	Y101185-11	Soil	January 19, 2021 16:04	01/19/2021 17:46

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

www.originslaboratory.com

page 1 of 2



Y0118S

Client: ONYX MINING
 Address: _____
 Telephone Number: _____
 Email Address: MIKE.JAHN@TASMAN-GEOSCI.COM

Project Manager: Mike Jahn
 Project Name: King Addie M GU 1
 Project Number: 90257194
 Samples Collected By: B

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 Summa #	Other	As	Pb	Cd		Cr
B24011'	1-19-21	1545	2	X					X				X	X	X	Take 910
B25011'		1547	1										X	X	X	
B26011'		1549	1										X	X	X	
B27011'		1551	1										X	X	X	
M309'		1552	1										X	X	X	
M409'		1554	1										X	X	X	
S2409'		1556	1										X	X	X	
S2509'		1558	1										X	X	X	
S2609'		1600	1										X	X	X	
M709'		1602	1										X	X	X	
Relinquished By: <u>M</u>	Date: <u>1-19-21</u>	Time: _____	Time: _____	Received By: <u>[Signature]</u>	Date: <u>1-19-21</u>	Time: <u>1746</u>	Date: _____	Time: _____	Turnaround Time: <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr							

Date Results Needed

S.1

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

www.originslaboratory.com

page 2 of 2

ORIGINS
 LABORATORY, INC

1/10/18

Project Manager: Mike Jahn
 Project Name: King Addie M GU #
 Project Number: 90257194
 Samples Collected By: BL

Client: Oxy/Tasman
 Address: [Redacted]
 Telephone Number: [Redacted]
 Email Address: M.jahn@tasman-geo.com

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 Sample #	Other	Other		Other		
W1909	1-19-21	16:04	1	X						X						

Date Results Needed

S.I

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y101185 Client: Tasman
 Client Project ID: King Addie

Checklist Completed by: JG Shipped Via: HD
 Date/time completed: 1/19/21 (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/S.I. °c 1 °c 1 °c (Describe) °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: [Signature] (Project Manager)

Date/Time Reviewed: 1/19/21

Origins Laboratory, Inc.

[Signature]

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B24@11'
1/19/2021 3:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101185-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A1902	KDK	01/19/2021	01/19/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 93.1 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A1911	TEM	01/19/2021	01/19/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 91.0 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	2.76		me/L	1	[none]		01/21/2021	01/25/2021	
Magnesium	1.30		"	"	"		"	"	
Sodium	7.65		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B24@11'

1/19/2021 3:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101185-01 (Soil)**

pH in Soil by EPA 9045D

pH	8.26		pH Units	1	B1A1909	DJL	01/19/2021	01/19/2021	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	5.37			1	[none]		01/21/2021	01/25/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.103	0.00500	mmhos/cm	1	B1A1910	DJL	01/19/2021	01/19/2021	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B25@11'
1/19/2021 3:47:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101185-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A1902	KDK	01/19/2021	01/19/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 80.5 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A1911	TEM	01/19/2021	01/19/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "
 Surrogate: Toluene-d8 99.0 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 92.2 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	3.41		me/L	1	[none]		01/21/2021	01/25/2021	
Magnesium	1.33		"	"	"		"	"	
Sodium	6.02		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B25@11'

1/19/2021 3:47:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101185-02 (Soil)**

pH in Soil by EPA 9045D

pH	8.16		pH Units	1	B1A1909	DJL	01/19/2021	01/19/2021	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	3.91			1	[none]		01/21/2021	01/25/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.106	0.00500	mmhos/cm	1	B1A1910	DJL	01/19/2021	01/19/2021	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B26@11'
1/19/2021 3:49:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101185-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A1902	KDK	01/19/2021	01/20/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 96.3 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A1911	TEM	01/19/2021	01/19/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "
 Surrogate: Toluene-d8 100 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 89.8 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	2.52		me/L	1	[none]		01/21/2021	01/25/2021	
Magnesium	1.30		"	"	"		"	"	
Sodium	5.38		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B26@11'

1/19/2021 3:49:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101185-03 (Soil)**

pH in Soil by EPA 9045D

pH	8.08		pH Units	1	B1A1909	DJL	01/19/2021	01/19/2021	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	3.89			1	[none]		01/21/2021	01/25/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.112	0.00505	mmhos/cm	1	B1A1910	DJL	01/19/2021	01/19/2021	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B27@11'
1/19/2021 3:51:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101185-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A1902	KDK	01/19/2021	01/20/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 87.3 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A1911	TEM	01/19/2021	01/19/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "
 Surrogate: Toluene-d8 104 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 89.0 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	2.70		me/L	1	[none]		01/21/2021	01/25/2021	
Magnesium	1.49		"	"	"		"	"	
Sodium	5.29		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B27@11'

1/19/2021 3:51:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101185-04 (Soil)

pH in Soil by EPA 9045D

pH	8.42		pH Units	1	B1A1909	DJL	01/19/2021	01/19/2021	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	3.65			1	[none]		01/21/2021	01/25/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.110	0.00500	mmhos/cm	1	B1A1910	DJL	01/19/2021	01/19/2021	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

N13@9'
1/19/2021 3:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101185-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	27.8	25.0	mg/kg	1	B1A1902	KDK	01/19/2021	01/20/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 69.5 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	13.7	5.00	mg/kg	25	B1A1911	TEM	01/19/2021	01/19/2021	
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "
 Surrogate: Toluene-d8 98.2 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 93.3 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

N14@9'

1/19/2021 3:54:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101185-06 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	231	25.0	mg/kg	1	B1A1902	KDK	01/19/2021	01/20/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U
<i>Surrogate: o-Terphenyl</i>	86.9 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	243	50.0	mg/kg	250	B1A1911	TEM	01/19/2021	01/19/2021	
Benzene	0.103	0.050	"	25	"	TEM	"	01/20/2021	
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	1.02	0.498	"	250	"	TEM	"	01/19/2021	
Xylenes, total	ND	0.050	"	25	"	TEM	"	01/20/2021	U
Naphthalene	0.982	0.200	"	"	"	TEM	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	100 %	70-130			"	"		01/19/2021	
<i>Surrogate: Toluene-d8</i>	99.8 %	70-130			"	"		"	
<i>Surrogate: 4-Bromofluorobenzene</i>	94.7 %	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S24@9'

1/19/2021 3:56:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101185-07 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A1902	KDK	01/19/2021	01/20/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 77.7 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A1911	TEM	01/19/2021	01/19/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.1 % 70-130 " " "
 Surrogate: Toluene-d8 98.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 94.1 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S25@9'

1/19/2021 3:58:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101185-08 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	671	25.0	mg/kg	1	B1A1902	KDK	01/19/2021	01/20/2021	
Residual Range Organics (C28-C40)	204	100	"	"	"	KDK	"	"	

Surrogate: *o*-Terphenyl 98.9 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	286	5.00	mg/kg	25	B1A1911	TEM	01/19/2021	01/19/2021	
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.9 % 70-130 " " "
 Surrogate: Toluene-d8 109 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 120 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S26@9'

1/19/2021 4:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101185-09 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	145	25.0	mg/kg	1	B1A1902	KDK	01/19/2021	01/20/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U
<i>Surrogate: o-Terphenyl</i>	85.5 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	135	5.00	mg/kg	25	B1A1911	TEM	01/19/2021	01/20/2021	
Benzene	0.141	0.050	"	"	"	TEM	"	"	
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	0.068	0.050	"	"	"	TEM	"	"	
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	1.03	0.200	"	"	"	TEM	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	96.3 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	113 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	98.8 %	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

W17@9'

1/19/2021 4:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
 Y101185-10 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	275	25.0	mg/kg	1	B1A1902	KDK	01/19/2021	01/20/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 90.9 % 50-150 " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	430	5.00	mg/kg	25	B1A1911	TEM	01/19/2021	01/19/2021	
Benzene	0.195	0.050	"	"	"	TEM	"	"	
Toluene	0.077	0.050	"	"	"	TEM	"	"	
Ethylbenzene	1.44	0.050	"	"	"	TEM	"	"	
Xylenes, total	0.310	0.050	"	"	"	TEM	"	"	
Naphthalene	1.43	0.200	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4 96.5 % 70-130 " "
 Surrogate: Toluene-d8 139 % 70-130 " " S-04
 Surrogate: 4-Bromofluorobenzene 123 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

W18@9'

1/19/2021 4:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
 Y101185-11 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	261	25.0	mg/kg	1	B1A1902	KDK	01/19/2021	01/20/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U
<i>Surrogate: o-Terphenyl</i>	86.7 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	253	50.0	mg/kg	250	B1A1911	TEM	01/19/2021	01/19/2021	
Benzene	0.152	0.050	"	25	"	TEM	"	01/20/2021	
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	0.770	0.498	"	250	"	TEM	"	01/19/2021	
Xylenes, total	1.41	0.050	"	25	"	TEM	"	01/20/2021	
Naphthalene	0.834	0.200	"	"	"	TEM	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	96.9 %	70-130			"	"	"	01/19/2021	
<i>Surrogate: Toluene-d8</i>	99.7 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	96.4 %	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1902 - EPA 3550B										
Blank (B1A1902-BLK1)					Prepared: 01/19/2021 Analyzed: 01/19/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Surrogate: o-Terphenyl	24		"	25.0		95.3	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1902 - EPA 3550B

LCS (B1A1902-BS1)

Prepared: 01/19/2021 Analyzed: 01/19/2021

Diesel (C10-C28)	1030	50.0	mg/kg	1000		103	70-130			
Surrogate: <i>o</i> -Terphenyl	52		"	50.0		105	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1902 - EPA 3550B										
Matrix Spike (B1A1902-MS1)		Source: Y101175-01			Prepared: 01/19/2021 Analyzed: 01/19/2021					
Diesel (C10-C28)	822	50.0	mg/kg	1000	ND	82.2	70-130			
Surrogate: <i>o</i> -Terphenyl	44		"	50.0		88.1	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1902 - EPA 3550B										
Matrix Spike Dup (B1A1902-MSD1)		Source: Y101175-01			Prepared: 01/19/2021 Analyzed: 01/19/2021					
Diesel (C10-C28)	991	50.0	mg/kg	1000	ND	99.1	70-130	18.7	35	
Surrogate: <i>o</i> -Terphenyl	46		"	50.0		91.2	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1911 - EPA 5030 (soil)										
Blank (B1A1911-BLK1)										
					Prepared: 01/19/2021 Analyzed: 01/19/2021					
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		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.9	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1911 - EPA 5030 (soil)

LCS (B1A1911-BS1)

Prepared: 01/19/2021 Analyzed: 01/19/2021

Benzene	0.109	0.002	mg/kg	0.100		109	70-130			
Toluene	0.113	0.002	"	0.100		113	70-130			
Ethylbenzene	0.113	0.002	"	0.100		113	70-130			
m,p-Xylene	0.234	0.004	"	0.200		117	70-130			
o-Xylene	0.117	0.002	"	0.100		117	70-130			
Naphthalene	0.120	0.008	"	0.100		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1911 - EPA 5030 (soil)

Matrix Spike (B1A1911-MS1)	Source: Y101185-01			Prepared: 01/19/2021 Analyzed: 01/19/2021						
Benzene	0.104	0.002	mg/kg	0.100	ND	104	70-130			
Toluene	0.107	0.002	"	0.100	ND	107	70-130			
Ethylbenzene	0.103	0.002	"	0.100	ND	103	70-130			
m,p-Xylene	0.215	0.004	"	0.200	ND	108	70-130			
o-Xylene	0.117	0.002	"	0.100	ND	117	70-130			
Naphthalene	0.126	0.008	"	0.100	ND	126	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.3	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A1911 - EPA 5030 (soil)

Matrix Spike Dup (B1A1911-MSD1)	Source: Y101185-01			Prepared: 01/19/2021 Analyzed: 01/19/2021						
Benzene	0.110	0.002	mg/kg	0.100	ND	110	70-130	5.75	20	
Toluene	0.112	0.002	"	0.100	ND	112	70-130	5.29	20	
Ethylbenzene	0.113	0.002	"	0.100	ND	113	70-130	9.57	20	
m,p-Xylene	0.232	0.004	"	0.200	ND	116	70-130	7.58	20	
o-Xylene	0.119	0.002	"	0.100	ND	119	70-130	1.88	20	
Naphthalene	0.127	0.008	"	0.100	ND	127	70-130	1.06	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B1A1909 - NO PREP

Duplicate (B1A1909-DUP1)		Source: Y101185-01			Prepared: 01/19/2021 Analyzed: 01/19/2021					
pH	7.95		pH Units		8.26			3.82	25	

Batch B1A1910 - NO PREP

Blank (B1A1910-BLK1)		Prepared: 01/19/2021 Analyzed: 01/19/2021								
Specific Conductance (EC)	0.00440	0.00500	mmhos/cm							
Duplicate (B1A1910-DUP1)		Source: Y101185-01			Prepared: 01/19/2021 Analyzed: 01/19/2021					
Specific Conductance (EC)	0.0904	0.00510	mmhos/cm		0.103			13.0	25	

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

Notes and Definitions

U Sample is Non-Detect.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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.



January 26, 2021

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - King Addie M GU 1

Project Number - 90257194

Attached are your analytical results for KMG - King Addie M GU 1 received by Origins Laboratory, Inc. January 21, 2021. This project is associated with Origins project number Y101220-01.

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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B28@10'	Y101220-01	Soil	January 21, 2021 13:50	01/21/2021 16:10
S27@7'	Y101220-02	Soil	January 21, 2021 13:52	01/21/2021 16:10
E12@7'	Y101220-03	Soil	January 21, 2021 13:54	01/21/2021 16:10
W19@7'	Y101220-04	Soil	January 21, 2021 13:56	01/21/2021 16:10
W20@9'	Y101220-05	Soil	January 21, 2021 13:58	01/21/2021 16:10
W21@9'	Y101220-06	Soil	January 21, 2021 13:59	01/21/2021 16:10

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1



www.originslaboratory.com

022101K

page 1 of 1

Client: Oxy / Tasman
 Address:
 Telephone Number:
 Email Address: mjahn@tasman-geo.com

Project Manager: Mike Jahn
 Project Name: King Addie M-GU 1
 Project Number: 90257194
 Samples Collected By: B

Fax: 303.265.9645 | Phone: 303.433.1322

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis			Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air / Summa	Conister #	Other	DR		PR	SR
D28810'	12/21	1330	8	X				X				X	X	X	1	Take 9/10
S2787'		1352	1									X	X	X	2	
F1287'		1334	1									X	X	X	3	
W1987'		1336	1									X	X	X	4	
W2009'		1358	1									X	X	X	5	PA 3000
W2109'		1359	1									X	X	X	6	PA 2700
															7	
															8	
															9	
															10	
Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Turnaround Time:										
<i>[Signature]</i>	1-21-11		<i>[Signature]</i>	12/12	1410	same Day							24 Hr <input type="checkbox"/>			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:	48 Hr <input type="checkbox"/>							72 Hr <input type="checkbox"/>			
						Standard <input type="checkbox"/>										

Date Results Needed

54

Origins Laboratory, Inc.

[Signature]

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: Y101220

Client: Tasman
 Client Project ID: King Addie

Checklist Completed by: SG

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

Date/time completed: 7/21/21

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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date, time and person contacted as well as the corrective action to in the additional comments (above) and the base narrative.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 7/21/21

Origins Laboratory, Inc.

[Signature]

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B28@10'
1/21/2021 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101220-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	25.1	25.0	mg/kg	1	B1A2114	KDK	01/21/2021	01/21/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U
<i>Surrogate: o-Terphenyl</i>	87.5 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	87.2	5.00	mg/kg	25	B1A2101	TEM	01/21/2021	01/21/2021	
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	0.101	0.050	"	"	"	TEM	"	"	
Xylenes, total	0.995	0.050	"	"	"	TEM	"	"	
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	99.9 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	110 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	93.7 %	70-130			"	"	"	"	

Metals (Saturated Paste Prep)

Calcium	2.31		me/L	1	[none]		01/22/2021	01/26/2021	
Magnesium	1.46		"	"	"		"	"	
Sodium	8.79		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B28@10'

1/21/2021 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101220-01 (Soil)**

pH in Soil by EPA 9045D

pH	8.64		pH Units	1	B1A2112	DJL	01/21/2021	01/21/2021	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	6.40			1	[none]		01/22/2021	01/26/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.170	0.00502	mmhos/cm	1	B1A2113	DJL	01/21/2021	01/21/2021	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S27@7'

1/21/2021 1:52:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101220-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A2114	KDK	01/21/2021	01/21/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 79.9 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A2101	TEM	01/21/2021	01/21/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.9 % 70-130 " " "
 Surrogate: Toluene-d8 103 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 90.8 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

E12@7'

1/21/2021 1:54:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101220-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A2114	KDK	01/21/2021	01/21/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 84.3 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A2101	TEM	01/21/2021	01/21/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "
 Surrogate: Toluene-d8 102 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 91.3 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

W19@7'

1/21/2021 1:56:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101220-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A2114	KDK	01/21/2021	01/21/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 93.4 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A2101	TEM	01/21/2021	01/21/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "
 Surrogate: Toluene-d8 102 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 92.1 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

W20@9'

1/21/2021 1:58:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101220-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	116	25.0	mg/kg	1	B1A2114	KDK	01/21/2021	01/21/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U
<i>Surrogate: o-Terphenyl</i>	97.1 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	260	50.0	mg/kg	250	B1A2101	TEM	01/21/2021	01/21/2021	
Benzene	0.180	0.050	"	25	"	TEM	"	01/22/2021	
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	0.406	0.050	"	"	"	TEM	"	"	
Xylenes, total	0.142	0.050	"	"	"	TEM	"	"	
Naphthalene	1.06	0.200	"	"	"	TEM	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	82.9 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	124 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

W21@9'

1/21/2021 1:59:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101220-06 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	425	25.0	mg/kg	1	B1A2114	KDK	01/21/2021	01/21/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U
<i>Surrogate: o-Terphenyl</i>	98.0 %	50-150			"	"	"	"	

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	852	50.0	mg/kg	250	B1A2101	TEM	01/21/2021	01/21/2021	
Benzene	0.153	0.050	"	25	"	TEM	"	01/22/2021	
Toluene	0.067	0.050	"	"	"	TEM	"	"	
Ethylbenzene	3.19	0.498	"	250	"	TEM	"	01/21/2021	
Xylenes, total	0.051	0.050	"	25	"	TEM	"	01/22/2021	
Naphthalene	2.19	0.200	"	"	"	TEM	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	96.2 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	140 %	70-130			"	"	"	"	S-04
<i>Surrogate: 4-Bromofluorobenzene</i>	117 %	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2101 - EPA 5030 (soil)

Blank (B1A2101-BLK1)

Prepared: 01/21/2021 Analyzed: 01/21/2021

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		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.3	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2101 - EPA 5030 (soil)

LCS (B1A2101-BS1)

Prepared: 01/21/2021 Analyzed: 01/21/2021

Benzene	0.090	0.002	mg/kg	0.100		90.3	70-130			
Toluene	0.095	0.002	"	0.100		95.4	70-130			
Ethylbenzene	0.099	0.002	"	0.100		98.6	70-130			
m,p-Xylene	0.199	0.004	"	0.200		99.5	70-130			
o-Xylene	0.100	0.002	"	0.100		99.8	70-130			
Naphthalene	0.111	0.008	"	0.100		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.8	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2101 - EPA 5030 (soil)

Matrix Spike (B1A2101-MS1)	Source: Y101220-01			Prepared: 01/21/2021 Analyzed: 01/21/2021						
Benzene	0.090	0.002	mg/kg	0.100	ND	90.1	70-130			
Toluene	0.100	0.002	"	0.100	ND	99.9	70-130			
Ethylbenzene	0.107	0.002	"	0.100	0.101	5.84	70-130			QM-07
m,p-Xylene	0.248	0.004	"	0.200	0.995	NR	70-130			QM-07
o-Xylene	0.104	0.002	"	0.100	0.045	59.4	70-130			QM-07
Naphthalene	0.113	0.008	"	0.100	0.190	NR	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.5	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2101 - EPA 5030 (soil)

Matrix Spike Dup (B1A2101-MSD1)	Source: Y101220-01			Prepared: 01/21/2021 Analyzed: 01/21/2021						
Benzene	0.074	0.002	mg/kg	0.100	ND	74.5	70-130	19.0	20	
Toluene	0.083	0.002	"	0.100	ND	82.9	70-130	18.6	20	
Ethylbenzene	0.090	0.002	"	0.100	0.101	NR	70-130	17.3	20	QM-07
m,p-Xylene	0.208	0.004	"	0.200	0.995	NR	70-130	17.6	20	QM-07
o-Xylene	0.086	0.002	"	0.100	0.045	41.0	70-130	19.4	20	QM-07
Naphthalene	0.098	0.008	"	0.100	0.190	NR	70-130	13.9	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.8	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2114 - EPA 3550B										
Blank (B1A2114-BLK1)										
					Prepared: 01/21/2021 Analyzed: 01/21/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	25.0		86.1	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2114 - EPA 3550B

LCS (B1A2114-BS1)

Prepared: 01/21/2021 Analyzed: 01/21/2021

Diesel (C10-C28)	1000	50.0	mg/kg	1000		100	70-130			
Residual Range Organics (C28-C40)	1090	200	"	1000		109	70-130			
Surrogate: o-Terphenyl	51		"	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2114 - EPA 3550B

Matrix Spike (B1A2114-MS1)	Source: Y101220-01			Prepared: 01/21/2021 Analyzed: 01/21/2021						
Diesel (C10-C28)	1080	50.0	mg/kg	1000	ND	108	70-130			
Residual Range Organics (C28-C40)	1110	200	"	1000	ND	111	70-130			
Surrogate: o-Terphenyl	48		"	50.0		96.9	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2114 - EPA 3550B

Matrix Spike Dup (B1A2114-MSD1)	Source: Y101220-01			Prepared: 01/21/2021 Analyzed: 01/21/2021						
Diesel (C10-C28)	1120	50.0	mg/kg	1000	ND	112	70-130	3.95	35	
Residual Range Organics (C28-C40)	1200	200	"	1000	ND	120	70-130	8.46	35	
Surrogate: o-Terphenyl	53		"	50.0		107	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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

Notes and Definitions

U Sample is Non-Detect.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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.

February 02, 2021

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - King Addie M GU 1

Project Number - 90257194

Attached are your analytical results for KMG - King Addie M GU 1 received by Origins Laboratory, Inc. January 22, 2021. This project is associated with Origins project number Y101245-01.

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



Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B29@7'	Y101245-01	Soil	January 22, 2021 15:00	01/22/2021 17:04
B30@11'	Y101245-02	Soil	January 22, 2021 15:02	01/22/2021 17:04
B31@11'	Y101245-03	Soil	January 22, 2021 15:02	01/22/2021 17:04
N15@9'	Y101245-04	Soil	January 22, 2021 15:04	01/22/2021 17:04
S28@4'	Y101245-05	Soil	January 22, 2021 15:06	01/22/2021 17:04
S29@9'	Y101245-06	Soil	January 22, 2021 15:08	01/22/2021 17:04
E13@4'	Y101245-07	Soil	January 22, 2021 15:10	01/22/2021 17:04
W22@4'	Y101245-08	Soil	January 22, 2021 15:12	01/22/2021 17:04
W23@9'	Y101245-09	Soil	January 22, 2021 15:14	01/22/2021 17:04
W24@9'	Y101245-10	Soil	January 22, 2021 15:16	01/22/2021 17:04

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, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1



www.originslaboratory.com

page of

Client: Oxy/Tasman Corp
 Address: _____
 Telephone Number: _____
 Email Address: m.jahn@tasman-geo.com

Project Manager: Mike Jahn
 Project Name: King Addie M GU 1
 Project Number: 90257194
 Samples Collected By: BL

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	At Summ #	Other	CR/OT/OT	FC	PH	
B29071	1/22/21	15:00	2	X								X	X	X	Tube 410
B30011	1/22/21	15:02	2									X	X	X	Sample 1DS
B31011	1/22/21	15:02	2									X	X	X	changed per
A1504 N1509	1/22/21	15:04	1									X	X	X	Eric Engelok
S2004	1/22/21	15:06	1												125 gm
S2904 S2900	1/22/21	15:08	1												
F1304	1/22/21	15:10	1												
N2204	1/22/21	15:11	1												
N2504 N2509	1/22/21	15:14	1												
N2504 N2509	1/22/21	15:16	1												
Relinquished By: <u>[Signature]</u>	Date: 1/22/21	Time:		Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	At Summ #	Other	CR/OT/OT	FC	PH	SAP
Relinquished By: <u>[Signature]</u>	Date: 1/22/21	Time:													

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

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 4101245

Client: Tasman
 Client Project ID: King Addie

Checklist Completed by: SG

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

Date/time completed: 1/22/12

Airbill #: NTA

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

Cooler Number/Temperature: 150 °C / _____ °C / _____ °C (Describe)

Thermometer ID: 1003

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 cool narrative.

Reviewed by (Project Manager) [Signature]

1/22/12
 Date/Time Reviewed

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B29@7'

1/22/2021 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101245-01 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A2212	KDK	01/22/2021	01/22/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 94.9 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A2210	TEM	01/22/2021	01/22/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 89.7 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	2.26		me/L	1	[none]		01/28/2021	02/01/2021	
Magnesium	1.02		"	"	"		"	"	
Sodium	6.34		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B29@7'

1/22/2021 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101245-01 (Soil)**

pH in Soil by EPA 9045D

pH	8.15		pH Units	1	B1A2213	DJL	01/22/2021	01/22/2021	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	4.95			1	[none]		01/28/2021	02/01/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.143	0.00507	mmhos/cm	1	B1A2214	DJL	01/22/2021	01/22/2021	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B30@11'
1/22/2021 3:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101245-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A2212	KDK	01/22/2021	01/22/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 108 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A2210	TEM	01/22/2021	01/22/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "
 Surrogate: Toluene-d8 99.1 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 91.8 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	2.94		me/L	1	[none]		01/28/2021	02/01/2021	
Magnesium	1.29		"	"	"		"	"	
Sodium	5.92		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B30@11'

1/22/2021 3:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101245-02 (Soil)**

pH in Soil by EPA 9045D

pH	8.40		pH Units	1	B1A2213	DJL	01/22/2021	01/22/2021	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	4.07			1	[none]		01/28/2021	02/01/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.113	0.00505	mmhos/cm	1	B1A2214	DJL	01/22/2021	01/22/2021	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B31@11'
1/22/2021 3:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101245-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A2212	KDK	01/22/2021	01/22/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 91.9 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A2210	TEM	01/22/2021	01/22/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 90.1 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	2.11		me/L	1	[none]		01/28/2021	02/01/2021	
Magnesium	1.09		"	"	"		"	"	
Sodium	5.37		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B31@11'
1/22/2021 3:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101245-03 (Soil)

pH in Soil by EPA 9045D

pH	8.30		pH Units	1	B1A2213	DJL	01/22/2021	01/22/2021	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	4.25			1	[none]		01/28/2021	02/01/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.115	0.00500	mmhos/cm	1	B1A2214	DJL	01/22/2021	01/22/2021	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

N15@9'

1/22/2021 3:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101245-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A2212	KDK	01/22/2021	01/22/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 95.1 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	28.8	5.00	mg/kg	25	B1A2210	TEM	01/22/2021	01/22/2021	
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	0.051	0.050	"	"	"	TEM	"	"	
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "
 Surrogate: Toluene-d8 103 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 88.8 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S28@4'

1/22/2021 3:06:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101245-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	241	25.0	mg/kg	1	B1A2212	KDK	01/22/2021	01/22/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 105 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	439	50.0	mg/kg	250	B1A2210	TEM	01/22/2021	01/22/2021	
Benzene	ND	0.050	"	25	"	TEM	"	01/22/2021	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	0.052	0.050	"	"	"	TEM	"	"	
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "
 Surrogate: Toluene-d8 103 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 116 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S29@9'

1/22/2021 3:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101245-06 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	177	25.0	mg/kg	1	B1A2212	KDK	01/22/2021	01/22/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	98.0 %	50-150			"	"	"	"	
------------------------	--------	--------	--	--	---	---	---	---	--

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	513	50.0	mg/kg	250	B1A2210	TEM	01/22/2021	01/22/2021	
Benzene	ND	0.050	"	25	"	TEM	"	01/22/2021	U
Toluene	0.050	0.050	"	"	"	TEM	"	"	
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	0.599	0.200	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	121 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	115 %	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

E13@4'

1/22/2021 3:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101245-07 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	157	25.0	mg/kg	1	B1A2212	KDK	01/22/2021	01/22/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 100 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	201	5.00	mg/kg	25	B1A2210	TEM	01/22/2021	01/22/2021	
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.0 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

W22@4'

1/22/2021 3:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101245-08 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	224	25.0	mg/kg	1	B1A2212	KDK	01/22/2021	01/22/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 90.9 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	353	5.00	mg/kg	25	B1A2210	TEM	01/22/2021	01/22/2021	
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 106 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

W23@9'

1/22/2021 3:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101245-09 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	129	25.0	mg/kg	1	B1A2212	KDK	01/22/2021	01/22/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 86.9 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	704	50.0	mg/kg	250	B1A2210	TEM	01/22/2021	01/22/2021	
Benzene	0.084	0.050	"	25	"	TEM	"	01/23/2021	
Toluene	0.076	0.050	"	"	"	TEM	"	"	
Ethylbenzene	0.172	0.050	"	"	"	TEM	"	"	
Xylenes, total	0.054	0.050	"	"	"	TEM	"	"	
Naphthalene	1.05	0.200	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4 98.0 % 70-130 " " "
 Surrogate: Toluene-d8 142 % 70-130 " " " S-04
 Surrogate: 4-Bromofluorobenzene 121 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

W24@9'

1/22/2021 3:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101245-10 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	46.6	25.0	mg/kg	1	B1A2212	KDK	01/22/2021	01/22/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 102 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	100	5.00	mg/kg	25	B1A2210	TEM	01/22/2021	01/23/2021	
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	0.226	0.200	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4 99.8 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 92.5 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2210 - EPA 5030 (soil)										
Blank (B1A2210-BLK1)										
					Prepared: 01/22/2021 Analyzed: 01/22/2021					
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		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.6	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2210 - EPA 5030 (soil)

LCS (B1A2210-BS1)

Prepared: 01/22/2021 Analyzed: 01/22/2021

Benzene	0.090	0.002	mg/kg	0.100		90.4	70-130			
Toluene	0.099	0.002	"	0.100		98.7	70-130			
Ethylbenzene	0.102	0.002	"	0.100		102	70-130			
m,p-Xylene	0.206	0.004	"	0.200		103	70-130			
o-Xylene	0.104	0.002	"	0.100		104	70-130			
Naphthalene	0.117	0.008	"	0.100		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.0	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2210 - EPA 5030 (soil)

Matrix Spike (B1A2210-MS1)	Source: Y101244-01			Prepared: 01/22/2021 Analyzed: 01/22/2021						
Benzene	0.108	0.002	mg/kg	0.100	ND	108	70-130			
Toluene	0.122	0.002	"	0.100	ND	122	70-130			
Ethylbenzene	0.127	0.002	"	0.100	ND	127	70-130			
m,p-Xylene	0.252	0.004	"	0.200	ND	126	70-130			
o-Xylene	0.124	0.002	"	0.100	ND	124	70-130			
Naphthalene	0.126	0.008	"	0.100	0.057	68.8	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.7	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2210 - EPA 5030 (soil)

Matrix Spike Dup (B1A2210-MSD1)	Source: Y101244-01			Prepared: 01/22/2021 Analyzed: 01/22/2021						
Benzene	0.100	0.002	mg/kg	0.100	ND	100	70-130	7.22	20	
Toluene	0.114	0.002	"	0.100	ND	114	70-130	6.22	20	
Ethylbenzene	0.119	0.002	"	0.100	ND	119	70-130	5.79	20	
m,p-Xylene	0.239	0.004	"	0.200	ND	120	70-130	5.27	20	
o-Xylene	0.120	0.002	"	0.100	ND	120	70-130	3.61	20	
Naphthalene	0.128	0.008	"	0.100	0.057	71.0	70-130	1.77	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.4	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2212 - EPA 3550B										
Blank (B1A2212-BLK1)										
					Prepared: 01/22/2021 Analyzed: 01/22/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	25.0		88.2	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2212 - EPA 3550B

LCS (B1A2212-BS1)

Prepared: 01/22/2021 Analyzed: 01/22/2021

Diesel (C10-C28)	1030	50.0	mg/kg	1000		103	70-130			
Residual Range Organics (C28-C40)	1080	200	"	1000		108	70-130			
Surrogate: o-Terphenyl	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2212 - EPA 3550B

Matrix Spike (B1A2212-MS1)	Source: Y101244-01			Prepared: 01/22/2021 Analyzed: 01/22/2021						
Diesel (C10-C28)	979	50.0	mg/kg	1000	ND	97.9	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130			
Surrogate: o-Terphenyl	49		"	50.0		97.3	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2212 - EPA 3550B										
Matrix Spike Dup (B1A2212-MSD1)		Source: Y101244-01			Prepared: 01/22/2021 Analyzed: 01/22/2021					
Diesel (C10-C28)	1080	50.0	mg/kg	1000	ND	108	70-130	10.2	35	
Residual Range Organics (C28-C40)	1150	200	"	1000	ND	115	70-130	10.1	35	
Surrogate: o-Terphenyl	57		"	50.0		114	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B1A2213 - NO PREP

Duplicate (B1A2213-DUP1)

Source: Y101244-01

Prepared: 01/22/2021 Analyzed: 01/22/2021

pH	8.83		pH Units		8.16			7.89	25	
----	------	--	----------	--	------	--	--	------	----	--

Batch B1A2214 - NO PREP

Blank (B1A2214-BLK1)

Prepared: 01/22/2021 Analyzed: 01/22/2021

Specific Conductance (EC)	0.00210	0.00500	mmhos/cm							
---------------------------	---------	---------	----------	--	--	--	--	--	--	--

Duplicate (B1A2214-DUP1)

Source: Y101244-01

Prepared: 01/22/2021 Analyzed: 01/22/2021

Specific Conductance (EC)	0.330	0.00500	mmhos/cm		0.285			14.6	25	
---------------------------	-------	---------	----------	--	-------	--	--	------	----	--

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, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

Notes and Definitions

U Sample is Non-Detect.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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, Project Manager

February 02, 2021

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - King Addie M GU 1

Project Number - 90257194

Attached are your analytical results for KMG - King Addie M GU 1 received by Origins Laboratory, Inc. January 25, 2021. This project is associated with Origins project number Y101266-01.

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



Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B32@7'	Y101266-01	Soil	January 25, 2021 15:30	01/25/2021 16:55
B33@11'	Y101266-02	Soil	January 25, 2021 15:32	01/25/2021 16:55
N16@9'	Y101266-03	Soil	January 25, 2021 15:36	01/25/2021 16:55
S30@4'	Y101266-04	Soil	January 25, 2021 15:38	01/25/2021 16:55
S31@9'	Y101266-05	Soil	January 25, 2021 15:40	01/25/2021 16:55
E14@4'	Y101266-06	Soil	January 25, 2021 15:42	01/25/2021 16:55
E15@9'	Y101266-07	Soil	January 25, 2021 15:44	01/25/2021 16:55
W25@4'	Y101266-08	Soil	January 25, 2021 15:46	01/25/2021 16:55
W26@9'	Y101266-09	Soil	January 25, 2021 15:48	01/25/2021 16:55

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, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

www.originslaboratory.com

page of

Y107260

ORIGINS
 LABORATORY, INC

Client: Oxy Tasmania Project Manager: Mike Jahn

Address: _____ Project Name: King Addie M GU 1

Telephone Number: _____ Project Number: 90257194

Email Address: M.Jahn@tasman-geo.com Samples Collected By: B.

Fax: 303.265.9645 | Phone: 303.433.1322 | Denver, CO 80211

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis			Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	At Sample #	Other	DTOR	FR		DR
B32071	1-25-21	1530	2	X				X				X	X	X	
B33011		1532	1									X	X	X	
N16091		1536	1									X	X	X	
S20041		1538	1									X	X	X	
S21091		1540	1									X	X	X	
E14041		1542	1									X	X	X	
E15091		1544	1									X	X	X	
W05041		1546	1									X	X	X	
W06091		1548	1									X	X	X	

Relinquished By: [Signature] Date: 1-25-21 Time: _____

Received By: [Signature] Date: 1/25/21 Time: 1655

Relinquished By: _____ Date: _____ Time: _____

Received By: _____ Date: _____ Time: _____

Turnaround Time: Same Day 24 Hr 48 Hr 72 Hr

Sketches:

Date Results Needed: _____

1.7

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y101266

Client: Tasman

Checklist Completed by: SG

Client Project ID: King Addie

Date/time completed: 1/25/21

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 / 1.7 °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 bubbles) 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)

1/25/21
 Date/Time Reviewed

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B32@7'

1/25/2021 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101266-01 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A2513	KDK	01/25/2021	01/25/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 101 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A2511	TEM	01/25/2021	01/25/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 89.4 % 70-130 " " "
 Surrogate: Toluene-d8 89.0 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 95.4 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	2.21		me/L	1	[none]		01/28/2021	02/01/2021	
Magnesium	0.99		"	"	"		"	"	
Sodium	5.92		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B32@7'

1/25/2021 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101266-01 (Soil)**

pH in Soil by EPA 9045D

pH	8.13		pH Units	1	B1A2506	DJL	01/25/2021	01/25/2021	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	4.68			1	[none]		01/28/2021	02/01/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.123	0.00508	mmhos/cm	1	B1A2507	DJL	01/25/2021	01/25/2021	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B33@11'
1/25/2021 3:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101266-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A2513	KDK	01/25/2021	01/25/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 100 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A2511	TEM	01/25/2021	01/25/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.6 % 70-130 " " "
 Surrogate: Toluene-d8 99.0 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 91.4 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	2.37		me/L	1	[none]		01/28/2021	02/01/2021	
Magnesium	1.30		"	"	"		"	"	
Sodium	5.45		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B33@11'

1/25/2021 3:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101266-02 (Soil)

pH in Soil by EPA 9045D

pH	8.26		pH Units	1	B1A2506	DJL	01/25/2021	01/25/2021	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	4.02			1	[none]		01/28/2021	02/01/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.128	0.00502	mmhos/cm	1	B1A2507	DJL	01/25/2021	01/25/2021	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

N16@9'
1/25/2021 3:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101266-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	129	25.0	mg/kg	1	B1A2513	KDK	01/25/2021	01/25/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	96.4 %	50-150			"	"	"	"	
------------------------	--------	--------	--	--	---	---	---	---	--

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	141	5.00	mg/kg	25	B1A2511	TEM	01/25/2021	01/25/2021	
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	0.318	0.200	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.4 %	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S30@4'

1/25/2021 3:38:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101266-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A2513	KDK	01/25/2021	01/25/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 101 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A2511	TEM	01/25/2021	01/25/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.8 % 70-130 " " "
 Surrogate: Toluene-d8 95.7 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 94.3 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S31@9'

1/25/2021 3:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101266-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A2513	KDK	01/25/2021	01/25/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 102 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A2511	TEM	01/25/2021	01/25/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.5 % 70-130 " " "
 Surrogate: Toluene-d8 97.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 91.7 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

E14@4'

1/25/2021 3:42:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
 Y101266-06 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A2513	KDK	01/25/2021	01/25/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 94.1 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A2511	TEM	01/25/2021	01/25/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 97.9 % 70-130 " " "
 Surrogate: Toluene-d8 96.6 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 90.3 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

E15@9'

1/25/2021 3:44:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101266-07 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A2513	KDK	01/25/2021	01/25/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 89.8 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A2511	TEM	01/25/2021	01/25/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.7 % 70-130 " " "
 Surrogate: Toluene-d8 97.3 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 92.3 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

W25@4'

1/25/2021 3:46:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101266-08 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	30.0	25.0	mg/kg	1	B1A2513	KDK	01/25/2021	01/25/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 109 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A2511	TEM	01/25/2021	01/25/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.0 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 90.1 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

W26@9'

1/25/2021 3:48:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y101266-09 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A2513	KDK	01/25/2021	01/25/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 98.1 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A2511	TEM	01/25/2021	01/25/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.0 % 70-130 " " "
 Surrogate: Toluene-d8 97.7 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 92.2 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2511 - EPA 5030 (soil)

Blank (B1A2511-BLK1)

Prepared: 01/25/2021 Analyzed: 01/25/2021

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		100	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2511 - EPA 5030 (soil)

LCS (B1A2511-BS1)

Prepared: 01/25/2021 Analyzed: 01/25/2021

Benzene	0.049	0.002	mg/kg	0.0500		97.8	70-130			
Toluene	0.046	0.002	"	0.0500		92.1	70-130			
Ethylbenzene	0.051	0.002	"	0.0500		101	70-130			
m,p-Xylene	0.104	0.004	"	0.100		104	70-130			
o-Xylene	0.052	0.002	"	0.0500		104	70-130			
Naphthalene	0.043	0.008	"	0.0500		86.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2511 - EPA 5030 (soil)

Matrix Spike (B1A2511-MS1)	Source: Y101262-01			Prepared: 01/25/2021 Analyzed: 01/25/2021						
Benzene	0.058	0.002	mg/kg	0.0500	ND	116	70-130			
Toluene	0.053	0.002	"	0.0500	ND	106	70-130			
Ethylbenzene	0.054	0.002	"	0.0500	ND	109	70-130			
m,p-Xylene	0.113	0.004	"	0.100	ND	113	70-130			
o-Xylene	0.056	0.002	"	0.0500	ND	113	70-130			
Naphthalene	0.045	0.008	"	0.0500	ND	91.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2511 - EPA 5030 (soil)

Matrix Spike Dup (B1A2511-MSD1)	Source: Y101262-01			Prepared: 01/25/2021 Analyzed: 01/25/2021						
Benzene	0.057	0.002	mg/kg	0.0500	ND	115	70-130	1.18	20	
Toluene	0.052	0.002	"	0.0500	ND	103	70-130	2.33	20	
Ethylbenzene	0.054	0.002	"	0.0500	ND	108	70-130	0.702	20	
m,p-Xylene	0.112	0.004	"	0.100	ND	112	70-130	0.534	20	
o-Xylene	0.056	0.002	"	0.0500	ND	113	70-130	0.00	20	
Naphthalene	0.049	0.008	"	0.0500	ND	97.6	70-130	7.00	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2513 - EPA 3550B										
Blank (B1A2513-BLK1)										
					Prepared: 01/25/2021 Analyzed: 01/25/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	25.0		85.5	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2513 - EPA 3550B

LCS (B1A2513-BS1)

Prepared: 01/25/2021 Analyzed: 01/25/2021

Diesel (C10-C28)	847	50.0	mg/kg	1000		84.7	70-130			
Residual Range Organics (C28-C40)	892	200	"	1000		89.2	70-130			
Surrogate: o-Terphenyl	47		"	50.0		94.7	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2513 - EPA 3550B

Matrix Spike (B1A2513-MS1)	Source: Y101263-01			Prepared: 01/25/2021 Analyzed: 01/25/2021						
Diesel (C10-C28)	996	50.0	mg/kg	1000	ND	99.6	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130			
Surrogate: o-Terphenyl	55		"	50.0		110	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2513 - EPA 3550B

Matrix Spike Dup (B1A2513-MSD1)	Source: Y101263-01			Prepared: 01/25/2021 Analyzed: 01/25/2021						
Diesel (C10-C28)	980	50.0	mg/kg	1000	ND	98.0	70-130	1.58	35	
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130	0.878	35	
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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B1A2506 - NO PREP

Duplicate (B1A2506-DUP1) Source: Y101266-01 Prepared: 01/25/2021 Analyzed: 01/25/2021

pH	8.03		pH Units		8.13			1.24	25	
----	------	--	----------	--	------	--	--	------	----	--

Batch B1A2507 - NO PREP

Blank (B1A2507-BLK1) Prepared: 01/25/2021 Analyzed: 01/25/2021

Specific Conductance (EC)	0.00130	0.00500	mmhos/cm							
---------------------------	---------	---------	----------	--	--	--	--	--	--	--

Duplicate (B1A2507-DUP1) Source: Y101266-01 Prepared: 01/25/2021 Analyzed: 01/25/2021

Specific Conductance (EC)	0.113	0.00500	mmhos/cm		0.123			8.50	25	
---------------------------	-------	---------	----------	--	-------	--	--	------	----	--

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 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, Project Manager



February 02, 2021

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - King Addie M GU 1

Project Number - 90257194

Attached are your analytical results for KMG - King Addie M GU 1 received by Origins Laboratory, Inc. January 27, 2021. This project is associated with Origins project number Y101316-01.

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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B34@11'	Y101316-01	Soil	January 27, 2021 11:40	01/27/2021 16:22
W27@8'	Y101316-02	Soil	January 27, 2021 11:45	01/27/2021 16:22

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

www.originslaboratory.com

Y10316

ORIGINS
 LABORATORY, INC

page 1 of 1

Client: Oxy/Tasman
 Address: _____
 Telephone Number: _____
 Email Address: mjahn@tasman-geo.com

Project Manager: Mike Jahn
 Project Name: King Addie M GU 1
 Project Number: 90257194
 Samples Collected By: BL

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Groundwater	Soil	As Summ #		
B34811	1-27-21	1140	2	X			X			SPRINT DRO PRO SPT	1
W27031	↓	1148	1	X			X			XX XX XX	2
											3
											4
											5
											6
											7
											8
											9
											10
Relinquished By: _____	Date: <u>1-27-21</u>	Time: <u>16:27</u>	Received By: _____	Date: <u>1-27-21</u>	Time: <u>16:27</u>	Turnaround Time: <u>same Day</u>					
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____	Turnaround Time: <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr					

Date Results Needed: _____

54

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

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

Sample Receipt Checklist

Origins Work Order: Y101316 Client: Tasman
 Client Project ID: King Addie

Checklist Completed by: JG Shipped Via: FD
 Date/time completed: 1/27/21 (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, 5.4 °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.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 1/27/21

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B34@11'

1/27/2021 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101316-01 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A2703	KDK	01/27/2021	01/27/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 86.5 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1A2702	TEM	01/27/2021	01/27/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 97.9 % 70-130 " " "
 Surrogate: Toluene-d8 103 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 96.6 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	2.52		me/L	1	[none]		01/29/2021	02/02/2021	
Magnesium	0.91		"	"	"		"	"	
Sodium	5.27		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B34@11'

1/27/2021 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101316-01 (Soil)**

pH in Soil by EPA 9045D

pH	8.50		pH Units	1	B1A2712	DJL	01/27/2021	01/27/2021	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	4.02			1	[none]		01/29/2021	02/02/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.106	0.00505	mmhos/cm	1	B1A2713	DJL	01/27/2021	01/27/2021	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

W27@8'

1/27/2021 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101316-02 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	1500	25.0	mg/kg	1	B1A2703	KDK	01/27/2021	01/27/2021	
Residual Range Organics (C28-C40)	397	100	"	"	"	KDK	"	"	

Surrogate: *o*-Terphenyl 120 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	2520	50.0	mg/kg	250	B1A2702	TEM	01/27/2021	01/27/2021	
Benzene	ND	0.050	"	25	"	TEM	"	01/27/2021	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	8.88	0.498	"	250	"	TEM	"	01/27/2021	
Xylenes, total	87.2	0.498	"	"	"	TEM	"	"	
Naphthalene	2.80	0.200	"	25	"	TEM	"	01/27/2021	

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 111 % 70-130 " " 01/27/2021

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2702 - EPA 5030 (soil)										
Blank (B1A2702-BLK1)										
					Prepared: 01/27/2021 Analyzed: 01/27/2021					
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		94.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.0	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2702 - EPA 5030 (soil)

LCS (B1A2702-BS1)

Prepared: 01/27/2021 Analyzed: 01/27/2021

Benzene	0.045	0.002	mg/kg	0.0500		90.8	70-130			
Toluene	0.049	0.002	"	0.0500		97.6	70-130			
Ethylbenzene	0.053	0.002	"	0.0500		105	70-130			
m,p-Xylene	0.109	0.004	"	0.100		109	70-130			
o-Xylene	0.054	0.002	"	0.0500		109	70-130			
Naphthalene	0.047	0.008	"	0.0500		94.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2702 - EPA 5030 (soil)

Matrix Spike (B1A2702-MS1)	Source: Y101310-01			Prepared: 01/27/2021 Analyzed: 01/27/2021						
Benzene	0.042	0.002	mg/kg	0.0500	ND	83.9	70-130			
Toluene	0.045	0.002	"	0.0500	0.001	87.2	70-130			
Ethylbenzene	0.045	0.002	"	0.0500	ND	90.4	70-130			
m,p-Xylene	0.095	0.004	"	0.100	0.001	93.5	70-130			
o-Xylene	0.047	0.002	"	0.0500	0.0005	93.8	70-130			
Naphthalene	0.046	0.008	"	0.0500	0.003	86.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.0	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2702 - EPA 5030 (soil)

Matrix Spike Dup (B1A2702-MSD1)	Source: Y101310-01			Prepared: 01/27/2021 Analyzed: 01/27/2021						
Benzene	0.049	0.002	mg/kg	0.0500	ND	97.1	70-130	14.5	20	
Toluene	0.051	0.002	"	0.0500	0.001	100	70-130	13.3	20	
Ethylbenzene	0.052	0.002	"	0.0500	ND	104	70-130	13.6	20	
m,p-Xylene	0.109	0.004	"	0.100	0.001	108	70-130	13.8	20	
o-Xylene	0.054	0.002	"	0.0500	0.0005	107	70-130	13.2	20	
Naphthalene	0.055	0.008	"	0.0500	0.003	104	70-130	17.3	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.1	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2703 - EPA 3550B										
Blank (B1A2703-BLK1)										
					Prepared: 01/27/2021 Analyzed: 01/27/2021					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	55		"	50.0		110	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2703 - EPA 3550B

LCS (B1A2703-BS1)

Prepared: 01/27/2021 Analyzed: 01/27/2021

Diesel (C10-C28)	930	50.0	mg/kg	1000		93.0	70-130			
Residual Range Organics (C28-C40)	947	200	"	1000		94.7	70-130			
Surrogate: o-Terphenyl	53		"	50.0		106	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2703 - EPA 3550B

Matrix Spike (B1A2703-MS1)	Source: Y101294-15			Prepared: 01/27/2021 Analyzed: 01/27/2021						
Diesel (C10-C28)	937	50.0	mg/kg	1000	122	81.5	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000	162	86.0	70-130			
Surrogate: o-Terphenyl	49		"	50.0		97.4	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2703 - EPA 3550B

Matrix Spike Dup (B1A2703-MSD1)	Source: Y101294-15			Prepared: 01/27/2021 Analyzed: 01/27/2021						
Diesel (C10-C28)	966	50.0	mg/kg	1000	122	84.4	70-130	3.06	35	
Residual Range Organics (C28-C40)	1050	200	"	1000	162	88.5	70-130	2.36	35	
Surrogate: o-Terphenyl	49		"	50.0		97.9	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B1A2712 - NO PREP

Duplicate (B1A2712-DUP1)		Source: Y101316-01			Prepared: 01/27/2021 Analyzed: 01/27/2021					
pH	8.54		pH Units		8.50			0.469	25	

Batch B1A2713 - NO PREP

Blank (B1A2713-BLK1)		Prepared: 01/27/2021 Analyzed: 01/27/2021								
Specific Conductance (EC)	0.00430	0.00500	mmhos/cm							
Duplicate (B1A2713-DUP1)		Source: Y101316-01			Prepared: 01/27/2021 Analyzed: 01/27/2021					
Specific Conductance (EC)	0.103	0.00500	mmhos/cm		0.106			3.35	25	

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 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.



February 04, 2021

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - King Addie M GU 1

Project Number - 90257194

Attached are your analytical results for KMG - King Addie M GU 1 received by Origins Laboratory, Inc. January 29, 2021. This project is associated with Origins project number Y101372-01.

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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B35@11'	Y101372-01	Soil	January 29, 2021 12:30	01/29/2021 16:58

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

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

Sample Receipt Checklist

Origins Work Order: Y101372 Client: Tasman
 Client Project ID: King Addie

Checklist Completed by: JG Shipped Via: HD
 Date/time completed: 1/29/12 (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 / 13.8 °C / _____ °C / _____ °C / _____ °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 1/29/12

Origins Laboratory, Inc.

[Signature]

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B35@11'

1/29/2021 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101372-01 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1A2908	TEM	01/29/2021	01/29/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 87.7 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B1A2907	TEM	01/29/2021	01/29/2021	U
Benzene	0.003	0.002	"	"	"	TEM	"	"	
Toluene	ND	0.002	"	"	"	TEM	"	"	U
Ethylbenzene	0.006	0.002	"	"	"	TEM	"	"	
Xylenes, total	0.013	0.002	"	"	"	TEM	"	"	
Naphthalene	ND	0.008	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.2 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	2.49		me/L	1	[none]		02/02/2021	02/04/2021	
Magnesium	1.44		"	"	"		"	"	
Sodium	7.22		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B35@11'

1/29/2021 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.
 Y101372-01 (Soil)**

pH in Soil by EPA 9045D

pH	8.44		pH Units	1	B1A2911	KDK	01/29/2021	01/29/2021	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	5.15			1	[none]		02/02/2021	02/04/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.115	0.00500	mmhos/cm	1	B1A2912	KDK	01/29/2021	01/29/2021	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2907 - EPA 5030 (soil)										
Blank (B1A2907-BLK1)										
					Prepared: 01/29/2021 Analyzed: 01/29/2021					
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	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.4	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2907 - EPA 5030 (soil)

LCS (B1A2907-BS1)

Prepared: 01/29/2021 Analyzed: 01/29/2021

Benzene	0.052	0.002	mg/kg	0.0500		105	70-130			
Toluene	0.053	0.002	"	0.0500		105	70-130			
Ethylbenzene	0.054	0.002	"	0.0500		108	70-130			
m,p-Xylene	0.112	0.004	"	0.100		112	70-130			
o-Xylene	0.056	0.002	"	0.0500		111	70-130			
Naphthalene	0.057	0.008	"	0.0500		113	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	0.13		"	0.125		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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2907 - EPA 5030 (soil)

Matrix Spike (B1A2907-MS1)	Source: Y101364-01			Prepared: 01/29/2021 Analyzed: 01/29/2021						
Benzene	0.052	0.002	mg/kg	0.0500	ND	104	70-130			
Toluene	0.052	0.002	"	0.0500	ND	104	70-130			
Ethylbenzene	0.052	0.002	"	0.0500	ND	103	70-130			
m,p-Xylene	0.107	0.004	"	0.100	ND	107	70-130			
o-Xylene	0.054	0.002	"	0.0500	ND	107	70-130			
Naphthalene	0.051	0.008	"	0.0500	0.003	96.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.1	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2907 - EPA 5030 (soil)

Matrix Spike Dup (B1A2907-MSD1)	Source: Y101364-01			Prepared: 01/29/2021 Analyzed: 01/29/2021						
Benzene	0.048	0.002	mg/kg	0.0500	ND	96.8	70-130	7.44	20	
Toluene	0.049	0.002	"	0.0500	ND	97.4	70-130	6.13	20	
Ethylbenzene	0.048	0.002	"	0.0500	ND	95.5	70-130	7.69	20	
m,p-Xylene	0.099	0.004	"	0.100	ND	99.2	70-130	7.64	20	
o-Xylene	0.050	0.002	"	0.0500	ND	99.3	70-130	7.93	20	
Naphthalene	0.050	0.008	"	0.0500	0.003	94.1	70-130	2.46	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2908 - EPA 3580										
Blank (B1A2908-BLK1)										
					Prepared: 01/29/2021 Analyzed: 01/29/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	25.0		99.5	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2908 - EPA 3580

LCS (B1A2908-BS1)

Prepared: 01/29/2021 Analyzed: 01/29/2021

Diesel (C10-C28)	1100	50.0	mg/kg	1000		110	70-130			
Residual Range Organics (C28-C40)	1130	200	"	1000		113	70-130			
Surrogate: o-Terphenyl	61		"	50.0		122	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2908 - EPA 3580

Matrix Spike (B1A2908-MS1)	Source: Y101358-01			Prepared: 01/29/2021 Analyzed: 01/29/2021						
Diesel (C10-C28)	952	50.0	mg/kg	1000	ND	95.2	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000	78.4	93.1	70-130			
Surrogate: o-Terphenyl	51		"	50.0		102	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1A2908 - EPA 3580

Matrix Spike Dup (B1A2908-MSD1)	Source: Y101358-01			Prepared: 01/29/2021 Analyzed: 01/29/2021						
Diesel (C10-C28)	941	50.0	mg/kg	1000	ND	94.1	70-130	1.11	35	
Residual Range Organics (C28-C40)	996	200	"	1000	78.4	91.7	70-130	1.39	35	
<i>Surrogate: o-Terphenyl</i>	<i>51</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>50-150</i>			

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 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.

February 08, 2021

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - King Addie M GU 1

Project Number - 90257194

Attached are your analytical results for KMG - King Addie M GU 1 received by Origins Laboratory, Inc. February 02, 2021. This project is associated with Origins project number Y102047-01.

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



Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B36@11'	Y102047-01	Soil	February 2, 2021 15:30	02/02/2021 17:20
B37@11'	Y102047-02	Soil	February 2, 2021 15:32	02/02/2021 17:20
B38@11'	Y102047-03	Soil	February 2, 2021 15:34	02/02/2021 17:20
B39@11'	Y102047-04	Soil	February 2, 2021 15:36	02/02/2021 17:20
N17@8'	Y102047-05	Soil	February 2, 2021 15:38	02/02/2021 17:20
N18@8'	Y102047-06	Soil	February 2, 2021 15:40	02/02/2021 17:20
W28@8'	Y102047-07	Soil	February 2, 2021 15:42	02/02/2021 17:20
W29@8'	Y102047-08	Soil	February 2, 2021 15:44	02/02/2021 17:20
W30@8'	Y102047-09	Soil	February 2, 2021 15:46	02/02/2021 17:20

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

www.originslaboratory.com

Y102047

page 1 of 7

ORIGINS
 LABORATORY, INC

Client: Oxy / Tasman
 Address:
 Telephone Number:
 Email Address: mjahn@tasman-geosciences.com

Project Manager: Mike Jahn
 Project Name: King Addie M GU 1
 Project Number: 90257194
 Samples Collected By: BL

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis			Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	2x Summa Container #	Other	GT-EX-N	GT-EX-KO		Other
B25011	2-2-21	1530	2	X				X				X	X		
B37011		1532	1									X	X		
B38011		1534	1									X	X		
B39011		1536	1									X	X		
N17008		1538	1									X	X		
N18008		1540	1									X	X		pid 2,000
N18008		1542	1									X	X		pid 2,000
N19008		1544	1									X	X		pid 3,000
N20008		1546	1									X	X		
Relinquished By: <i>BL</i>	Date: 2-2-21	Time: 170	Time: 170	Received By: <i>[Signature]</i>	Date: 2-2-21	Time: 170	Time: 170	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr							

Date Results Needed

5.2

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

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4102047

Client: Tasman

Client Project ID: King Addie

Checklist Completed by: JG

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

Date/time completed: 2/2/21

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 5.2 °C _____ °C _____ °C _____ °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 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)

2/2/21
 Date/Time Reviewed

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B36@11'

2/2/2021 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y102047-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1B0214	KDK	02/02/2021	02/02/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 92.6 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1B0213	TEM	"	02/02/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "
 Surrogate: Toluene-d8 100 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 91.3 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	0.97		me/L	1	[none]		02/04/2021	02/08/2021	
Magnesium	0.49		"	"	"		"	"	
Sodium	6.23		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B36@11'

2/2/2021 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y102047-01 (Soil)

pH in Soil by EPA 9045D

pH	8.76		pH Units	1	B1B0215	DJL	02/02/2021	02/02/2021	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	7.29			1	[none]		02/04/2021	02/08/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.111	0.00500	mmhos/cm	1	B1B0216	DJL	02/02/2021	02/02/2021	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B37@11'

2/2/2021 3:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y102047-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1B0214	KDK	02/02/2021	02/02/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 93.0 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1B0213	TEM	"	02/02/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "
 Surrogate: Toluene-d8 98.8 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 91.6 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	1.54		me/L	1	[none]		02/04/2021	02/08/2021	
Magnesium	1.00		"	"	"		"	"	
Sodium	8.35		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B37@11'

2/2/2021 3:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y102047-02 (Soil)

pH in Soil by EPA 9045D

pH	8.66		pH Units	1	B1B0215	DJL	02/02/2021	02/02/2021	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	7.41			1	[none]		02/04/2021	02/08/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.135	0.00500	mmhos/cm	1	B1B0216	DJL	02/02/2021	02/02/2021	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B38@11'

2/2/2021 3:34:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y102047-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1B0214	KDK	02/02/2021	02/02/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 105 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1B0213	TEM	"	02/02/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "
 Surrogate: Toluene-d8 97.5 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 90.8 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	1.83		me/L	1	[none]		02/04/2021	02/08/2021	
Magnesium	1.07		"	"	"		"	"	
Sodium	8.10		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B38@11'

2/2/2021 3:34:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y102047-03 (Soil)

pH in Soil by EPA 9045D

pH	8.51		pH Units	1	B1B0215	DJL	02/02/2021	02/02/2021	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	6.73			1	[none]		02/04/2021	02/08/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.142	0.00500	mmhos/cm	1	B1B0216	DJL	02/02/2021	02/02/2021	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B39@11'

2/2/2021 3:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y102047-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1B0214	KDK	02/02/2021	02/02/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 92.0 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1B0213	TEM	"	02/02/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "
 Surrogate: Toluene-d8 99.5 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 92.1 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	5.21		me/L	1	[none]		02/04/2021	02/08/2021	
Magnesium	2.67		"	"	"		"	"	
Sodium	7.06		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B39@11'

2/2/2021 3:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y102047-04 (Soil)

pH in Soil by EPA 9045D

pH	8.60		pH Units	1	B1B0215	DJL	02/02/2021	02/02/2021	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	3.56			1	[none]		02/04/2021	02/08/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.105	0.00500	mmhos/cm	1	B1B0216	DJL	02/02/2021	02/02/2021	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

N17@8'

2/2/2021 3:38:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
 Y102047-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1B0214	KDK	02/02/2021	02/02/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 86.0 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1B0213	TEM	"	02/02/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "
 Surrogate: Toluene-d8 99.5 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 90.9 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

N18@8'

2/2/2021 3:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
 Y102047-06 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	655	25.0	mg/kg	1	B1B0214	KDK	02/02/2021	02/02/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 91.4 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	1150	50.0	mg/kg	250	B1B0213	TEM	"	02/02/2021	
Benzene	ND	0.050	"	25	"	TEM	"	02/02/2021	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	0.250	0.050	"	"	"	TEM	"	"	
Naphthalene	0.434	0.200	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "

Surrogate: Toluene-d8 101 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 114 % 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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

W28@8'

2/2/2021 3:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
 Y102047-07 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	752	25.0	mg/kg	1	B1B0214	KDK	02/02/2021	02/02/2021	
Residual Range Organics (C28-C40)	109	100	"	"	"	KDK	"	"	

Surrogate: *o*-Terphenyl 91.1 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	2240	50.0	mg/kg	250	B1B0213	TEM	"	02/02/2021	
Benzene	ND	0.050	"	25	"	TEM	"	02/02/2021	U
Toluene	0.154	0.050	"	"	"	TEM	"	"	
Ethylbenzene	1.52	0.498	"	250	"	TEM	"	02/02/2021	
Xylenes, total	0.264	0.050	"	25	"	TEM	"	02/02/2021	
Naphthalene	2.06	0.200	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4 99.2 % 70-130 " " "
 Surrogate: Toluene-d8 183 % 70-130 " " " S-04
 Surrogate: 4-Bromofluorobenzene 248 % 70-130 " " " S-04

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

W29@8'

2/2/2021 3:44:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
 Y102047-08 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	108	25.0	mg/kg	1	B1B0214	KDK	02/02/2021	02/02/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl	93.8 %	50-150			"	"	"	"	
------------------------	--------	--------	--	--	---	---	---	---	--

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	144	50.0	mg/kg	250	B1B0213	TEM	"	02/02/2021	
Benzene	ND	0.050	"	25	"	TEM	"	02/02/2021	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	0.546	0.200	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	111 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

W30@8'

2/2/2021 3:46:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
 Y102047-09 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1B0214	KDK	02/02/2021	02/02/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 91.2 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	26.0	5.00	mg/kg	25	B1B0213	TEM	"	02/02/2021	
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	0.210	0.200	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " 02/02/2021
 Surrogate: Toluene-d8 97.4 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 92.2 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1B0213 - EPA 5030 (soil)

Blank (B1B0213-BLK1)

Prepared: 02/02/2021 Analyzed: 02/02/2021

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	0.12		"	0.125	98.5		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	92.8		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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1B0213 - EPA 5030 (soil)

LCS (B1B0213-BS1)

Prepared: 02/02/2021 Analyzed: 02/02/2021

Benzene	0.089	0.002	mg/kg	0.100		89.5	70-130			
Toluene	0.097	0.002	"	0.100		97.1	70-130			
Ethylbenzene	0.100	0.002	"	0.100		99.6	70-130			
m,p-Xylene	0.212	0.004	"	0.200		106	70-130			
o-Xylene	0.109	0.002	"	0.100		109	70-130			
Naphthalene	0.116	0.008	"	0.100		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		118	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.4	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1B0213 - EPA 5030 (soil)

Matrix Spike (B1B0213-MS1)	Source: Y102047-01			Prepared: 02/02/2021 Analyzed: 02/02/2021						
Benzene	0.104	0.002	mg/kg	0.100	ND	104	70-130			
Toluene	0.109	0.002	"	0.100	ND	109	70-130			
Ethylbenzene	0.117	0.002	"	0.100	ND	117	70-130			
m,p-Xylene	0.248	0.004	"	0.200	ND	124	70-130			
o-Xylene	0.124	0.002	"	0.100	ND	124	70-130			
Naphthalene	0.101	0.008	"	0.100	0.058	42.8	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.6	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1B0213 - EPA 5030 (soil)

Matrix Spike Dup (B1B0213-MSD1)	Source: Y102047-01			Prepared: 02/02/2021 Analyzed: 02/02/2021						
Benzene	0.092	0.002	mg/kg	0.100	ND	92.3	70-130	12.0	20	
Toluene	0.100	0.002	"	0.100	ND	100	70-130	8.33	20	
Ethylbenzene	0.106	0.002	"	0.100	ND	106	70-130	10.3	20	
m,p-Xylene	0.223	0.004	"	0.200	ND	111	70-130	10.6	20	
o-Xylene	0.112	0.002	"	0.100	ND	112	70-130	10.0	20	
Naphthalene	0.104	0.008	"	0.100	0.058	45.7	70-130	2.82	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.3	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1B0214 - EPA 3550B										
Blank (B1B0214-BLK1)										
					Prepared: 02/02/2021 Analyzed: 02/02/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	25.0		103	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1B0214 - EPA 3550B

LCS (B1B0214-BS1)

Prepared: 02/02/2021 Analyzed: 02/02/2021

Diesel (C10-C28)	1020	50.0	mg/kg	1000		102	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000		105	70-130			
Surrogate: o-Terphenyl	59		"	50.0		118	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1B0214 - EPA 3550B

Matrix Spike (B1B0214-MS1)	Source: Y102047-01			Prepared: 02/02/2021 Analyzed: 02/02/2021						
Diesel (C10-C28)	928	50.0	mg/kg	1000	ND	92.8	70-130			
Residual Range Organics (C28-C40)	942	200	"	1000	ND	94.2	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1B0214 - EPA 3550B

Matrix Spike Dup (B1B0214-MSD1)	Source: Y102047-01			Prepared: 02/02/2021 Analyzed: 02/02/2021						
Diesel (C10-C28)	1000	50.0	mg/kg	1000	ND	100	70-130	7.87	35	
Residual Range Organics (C28-C40)	985	200	"	1000	ND	98.5	70-130	4.43	35	
Surrogate: o-Terphenyl	57		"	50.0		114	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

Notes and Definitions

U Sample is Non-Detect.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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, Project Manager

February 08, 2021

Tasman Geosciences

Mike Jahn

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - King Addie M GU 1

Project Number - 90257194

Attached are your analytical results for KMG - King Addie M GU 1 received by Origins Laboratory, Inc. February 03, 2021. This project is associated with Origins project number Y102075-01.

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



Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B40@11'	Y102075-01	Soil	February 3, 2021 14:30	02/03/2021 15:45
N19@9'	Y102075-02	Soil	February 3, 2021 14:32	02/03/2021 15:45
N20@9'	Y102075-03	Soil	February 3, 2021 14:34	02/03/2021 15:45
W31@9'	Y102075-04	Soil	February 3, 2021 14:36	02/03/2021 15:45
S32@8'	Y102075-05	Soil	February 3, 2021 14:38	02/03/2021 15:45
GW03	Y102075-06	Water	February 3, 2021 14:40	02/03/2021 15:45

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

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

Sample Receipt Checklist

Origins Work Order: Y102075 Client: Tasman
 Client Project ID: KMG - King Addie
 Checklist Completed by: Jm Shipped Via: HD
 Date/Time completed: 2-3-21 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: 1672
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)
 Cooler Number/Temperature: 1, 6.6 °C _____ °C _____ °C _____ °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>Some Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			<u>HCl</u>
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 2/3/21

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B40@11'

2/3/2021 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y102075-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1B0303	TEM	02/03/2021	02/03/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl 80.3 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	6.46	5.00	mg/kg	25	B1B0310	TEM	02/03/2021	02/03/2021	
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 95.4 % 70-130 " " "
Surrogate: Toluene-d8 102 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 93.5 % 70-130 " " "

Metals (Saturated Paste Prep)

Calcium	14.13		me/L	1	[none]		02/04/2021	02/08/2021	
Magnesium	3.90		"	"	"		"	"	
Sodium	20.89		"	"	"		"	"	

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

B40@11'

2/3/2021 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y102075-01 (Soil)

pH in Soil by EPA 9045D

pH	8.17		pH Units	1	B1B0304	DJL	02/03/2021	02/03/2021	
----	------	--	----------	---	---------	-----	------------	------------	--

SAR by 20B Saturated Paste

SAR	6.96			1	[none]		02/04/2021	02/08/2021	
-----	------	--	--	---	--------	--	------------	------------	--

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.127	0.00506	mmhos/cm	1	B1B0305	DJL	02/03/2021	02/03/2021	
---------------------------	-------	---------	----------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

N19@9'

2/3/2021 2:32:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y102075-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1B0303	TEM	02/03/2021	02/03/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 91.3 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1B0310	TEM	02/03/2021	02/03/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 95.0 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 94.8 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

N20@9'

2/3/2021 2:34:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
 Y102075-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1B0303	TEM	02/03/2021	02/03/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 89.4 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B1B0310	TEM	02/03/2021	02/03/2021	U
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 97.1 % 70-130 " " "
 Surrogate: Toluene-d8 98.7 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 91.4 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

W31@9'

2/3/2021 2:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
 Y102075-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1B0303	TEM	02/03/2021	02/03/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 88.0 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	7.62	5.00	mg/kg	25	B1B0310	TEM	02/03/2021	02/03/2021	
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 96.4 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 93.2 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

S32@8'

2/3/2021 2:38:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y102075-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1B0303	TEM	02/03/2021	02/03/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	TEM	"	"	U

Surrogate: *o*-Terphenyl 89.9 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	5.12	5.00	mg/kg	25	B1B0310	TEM	02/03/2021	02/03/2021	
Benzene	ND	0.050	"	"	"	TEM	"	"	U
Toluene	ND	0.050	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.050	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.050	"	"	"	TEM	"	"	U
Naphthalene	ND	0.200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 97.1 % 70-130 " " "
 Surrogate: Toluene-d8 99.3 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 92.1 % 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

GW03

2/3/2021 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Waypoint Analytical, LLC.
Y102075-06 (Water)

Anions by EPA-300.0

Chloride	211	40	mg/L	100	L535008		02/04/2021	02/04/2021	
Sulfate	596	100	"	"	"		"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	4.00	ug/L	4	B1B0301	KDK	02/03/2021	02/03/2021	U
1,3,5-Trimethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Benzene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Naphthalene	ND	16.0	"	"	"	KDK	"	"	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	91.9 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1540	5.00	mg/L	1	B1B0306	DJL	02/03/2021	02/04/2021	
------------------------	------	------	------	---	---------	-----	------------	------------	--

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1B0301 - EPA 5030B (Water)

Blank (B1B0301-BLK1)

Prepared: 02/03/2021 Analyzed: 02/03/2021

1,2,4-Trimethylbenzene	ND	1.00	ug/L							U
1,3,5-Trimethylbenzene	ND	1.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	4.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5	102		70-130			
Surrogate: Toluene-d8	63		"	62.5	101		70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5	95.6		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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1B0301 - EPA 5030B (Water)

LCS (B1B0301-BS1)

Prepared: 02/03/2021 Analyzed: 02/03/2021

1,2,4-Trimethylbenzene	43.8	1.00	ug/L	50.0		87.6	70-130			
1,3,5-Trimethylbenzene	45.3	1.00	"	50.0		90.6	70-130			
Benzene	44.5	1.00	"	50.0		88.9	70-130			
Ethylbenzene	47.1	1.00	"	50.0		94.2	70-130			
m,p-Xylene	91.4	2.00	"	100		91.4	70-130			
Naphthalene	41.0	4.00	"	50.0		82.0	70-130			
o-Xylene	43.5	1.00	"	50.0		87.1	70-130			
Toluene	45.4	1.00	"	50.0		90.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		90.2	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.4	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1B0301 - EPA 5030B (Water)

Matrix Spike (B1B0301-MS1)	Source: Y102034-03			Prepared: 02/03/2021 Analyzed: 02/04/2021						
1,2,4-Trimethylbenzene	55.7	1.00	ug/L	50.0	111	70-130				
1,3,5-Trimethylbenzene	55.6	1.00	"	50.0	111	70-130				
Benzene	51.6	1.00	"	50.0	103	70-130				
Ethylbenzene	56.6	1.00	"	50.0	113	70-130				
m,p-Xylene	119	2.00	"	100	119	70-130				
Naphthalene	52.1	4.00	"	50.0	104	70-130				
o-Xylene	62.2	1.00	"	50.0	124	70-130				
Toluene	55.4	1.00	"	50.0	111	70-130				
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5	106	70-130				
Surrogate: Toluene-d8	63		"	62.5	100	70-130				
Surrogate: 4-Bromofluorobenzene	60		"	62.5	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1B0301 - EPA 5030B (Water)

Matrix Spike Dup (B1B0301-MSD1)	Source: Y102034-03			Prepared: 02/03/2021 Analyzed: 02/04/2021						
1,2,4-Trimethylbenzene	57.7	1.00	ug/L	50.0	115	70-130	3.49	20		
1,3,5-Trimethylbenzene	57.0	1.00	"	50.0	114	70-130	2.50	20		
Benzene	51.4	1.00	"	50.0	103	70-130	0.330	20		
Ethylbenzene	56.5	1.00	"	50.0	113	70-130	0.124	20		
m,p-Xylene	119	2.00	"	100	119	70-130	0.0420	20		
Naphthalene	58.6	4.00	"	50.0	117	70-130	11.8	20		
o-Xylene	61.4	1.00	"	50.0	123	70-130	1.33	20		
Toluene	54.5	1.00	"	50.0	109	70-130	1.47	20		
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5	106	70-130				
Surrogate: Toluene-d8	62		"	62.5	99.1	70-130				
Surrogate: 4-Bromofluorobenzene	62		"	62.5	98.8	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1B0303 - EPA 3580										
Blank (B1B0303-BLK1)										
					Prepared: 02/03/2021 Analyzed: 02/03/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	25.0		97.1	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1B0303 - EPA 3580

LCS (B1B0303-BS1)

Prepared: 02/03/2021 Analyzed: 02/03/2021

Diesel (C10-C28)	971	50.0	mg/kg	1000		97.1	70-130			
Residual Range Organics (C28-C40)	992	200	"	1000		99.2	70-130			
Surrogate: o-Terphenyl	54		"	50.0		107	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1B0303 - EPA 3580

Matrix Spike (B1B0303-MS1)	Source: Y102053-12			Prepared: 02/03/2021 Analyzed: 02/03/2021						
Diesel (C10-C28)	853	50.0	mg/kg	1000	ND	85.3	70-130			
Residual Range Organics (C28-C40)	877	200	"	1000	ND	87.7	70-130			
Surrogate: o-Terphenyl	45		"	50.0		90.1	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1B0303 - EPA 3580

Matrix Spike Dup (B1B0303-MSD1)	Source: Y102053-12			Prepared: 02/03/2021 Analyzed: 02/03/2021						
Diesel (C10-C28)	852	50.0	mg/kg	1000	ND	85.2	70-130	0.151	35	
Residual Range Organics (C28-C40)	885	200	"	1000	ND	88.5	70-130	0.826	35	
Surrogate: o-Terphenyl	45		"	50.0		90.4	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1B0310 - EPA 5030 (soil)

Blank (B1B0310-BLK1)

Prepared: 02/03/2021 Analyzed: 02/03/2021

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		97.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.3	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1B0310 - EPA 5030 (soil)

LCS (B1B0310-BS1)

Prepared: 02/03/2021 Analyzed: 02/03/2021

Benzene	0.089	0.002	mg/kg	0.100		88.9	70-130			
Toluene	0.093	0.002	"	0.100		93.2	70-130			
Ethylbenzene	0.101	0.002	"	0.100		101	70-130			
m,p-Xylene	0.210	0.004	"	0.200		105	70-130			
o-Xylene	0.107	0.002	"	0.100		107	70-130			
Naphthalene	0.090	0.008	"	0.100		90.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.3	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.

Jen Pellegrini, Project Manager

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1B0310 - EPA 5030 (soil)

Matrix Spike (B1B0310-MS1)	Source: Y102075-01			Prepared: 02/03/2021 Analyzed: 02/03/2021						
Benzene	0.097	0.002	mg/kg	0.100	ND	97.1	70-130			
Toluene	0.101	0.002	"	0.100	ND	101	70-130			
Ethylbenzene	0.109	0.002	"	0.100	ND	109	70-130			
m,p-Xylene	0.229	0.004	"	0.200	ND	114	70-130			
o-Xylene	0.116	0.002	"	0.100	ND	116	70-130			
Naphthalene	0.092	0.008	"	0.100	0.076	15.9	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.7	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 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 B1B0310 - EPA 5030 (soil)

Matrix Spike Dup (B1B0310-MSD1)	Source: Y102075-01			Prepared: 02/03/2021 Analyzed: 02/03/2021						
Benzene	0.097	0.002	mg/kg	0.100	ND	96.7	70-130	0.392	20	
Toluene	0.105	0.002	"	0.100	ND	105	70-130	3.76	20	
Ethylbenzene	0.111	0.002	"	0.100	ND	111	70-130	1.98	20	
m,p-Xylene	0.233	0.004	"	0.200	ND	116	70-130	1.72	20	
o-Xylene	0.119	0.002	"	0.100	ND	119	70-130	2.52	20	
Naphthalene	0.106	0.008	"	0.100	0.076	29.7	70-130	13.8	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.6	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Mike Jahn
 Project Number: 90257194
 Project: KMG - King Addie M GU 1

**Anions by EPA-300.0 - Quality Control
 Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L535008 - EPA-300.0 (PREP)										
MSD (G 92259-MSD-L535008)			Source: 92259			Prepared: 02/04/2021 Analyzed: 02/04/2021				
Sulfate	41.3	0.172	mg/L	32.9	10.7	93	80-120	0.4	20	
Chloride	29	0.234	"	26.3	4.34	94	80-120	0.3	20	
MS (G 92259-MS-L535008)			Source: 92259			Prepared: 02/04/2021 Analyzed: 02/04/2021				
Chloride	28.9	0.234	mg/L	26.3	4.34	93	80-120			
Sulfate	41.1	0.172	"	32.9	10.7	92	80-120			
LCS (LCS-L535008)						Prepared: 02/04/2021 Analyzed: 02/04/2021				
Sulfate	56.9	0.164	mg/L	62.5		91	90-110			
Chloride	46.5	0.223	"	50		93	90-110			
LRB (LRB-L535008)						Prepared: 02/04/2021 Analyzed: 02/04/2021				
Sulfate	ND	1	mg/L							
Chloride	ND	0.4	"							

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Mike Jahn
Project Number: 90257194
Project: KMG - King Addie M GU 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, Project Manager