



July 29, 2024

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - Carma 14-35

Project Number - [none]

Attached are your analytical results for KMG - Carma 14-35 received by Origins Laboratory, Inc. July 01, 2024. This project is associated with Origins project number Y407038-01.

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

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@6'	Y407038-01	Soil	July 1, 2024 14:00	07/01/2024 17:06
FL-B10@4'	Y407038-02	Soil	July 1, 2024 14:10	07/01/2024 17:06
BG-01@3'	Y407038-03	Soil	July 1, 2024 14:20	07/01/2024 17:06
BG-01@6'	Y407038-04	Soil	July 1, 2024 14:22	07/01/2024 17:06
BG-02@3'	Y407038-05	Soil	July 1, 2024 14:24	07/01/2024 17:06
BG-02@6'	Y407038-06	Soil	July 1, 2024 14:28	07/01/2024 17:06
BG-03@3'	Y407038-07	Soil	July 1, 2024 14:30	07/01/2024 17:06
BG-03@6'	Y407038-08	Soil	July 1, 2024 14:32	07/01/2024 17:06
BG-04@3'	Y407038-09	Soil	July 1, 2024 14:34	07/01/2024 17:06
BG-04@6'	Y407038-10	Soil	July 1, 2024 14:36	07/01/2024 17:06
BG-05@3'	Y407038-11	Soil	July 1, 2024 14:38	07/01/2024 17:06
BG-05@6'	Y407038-12	Soil	July 1, 2024 14:40	07/01/2024 17:06
BG-06@3'	Y407038-13	Soil	July 1, 2024 14:42	07/01/2024 17:06
BG-06@6'	Y407038-14	Soil	July 1, 2024 14:44	07/01/2024 17:06

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B12@4'	Y407038-15	Soil	July 1, 2024 15:02	07/01/2024 17:06

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

ORIGINS

1407038

Page 1 of 1

LABORATORY INC
Client: TASMAN/OXY

Project Manager: Andy Sagen

Key:

Address: 6855 W 119th Ave, Broomfield, CO 80020

Project Name: CARMA 14-35

W=Water

Telephone Number: PM Contact # (720) 939-3631

Project Number:

GW=Groundwater

Email Address: OXY/Tasman distribution list

Collected By: Kevin A. Sagen

SW=Surface Water

Invoice Billing Info:

WMI=Waste Water

L=Liquid

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis							Comments		
							GBTEXN+	TMBS	DRO/ORO	PAH	PH/EC/SAR	Boron	915 Metals		Full 915 Suite	
1	W4-B01@6	7/1	14:00	3	S											
2	FL-B10@4		14:10	3												
3	B6-01@3		14:20	2							X	X	X			
4	B6-01@6		14:22								X	X	X			
5	B6-02@3		14:24								X	X	X			
6	B6-02@6		14:28								X	X	X			
7	B6-03@3		14:30								X	X	X			
8	B6-03@6		14:32								X	X	X			
9	B6-04@3		14:34								X	X	X			
10	B6-04@6		14:36								X	X	X			

Relinquished By: Kevin A. Sagen Date: 7/1 Time: 1700 Received By: [Signature] Date: 7/1/24 Time: 1700

Temp Received: 0.8 Received On Ice? ☒ Yes ☐ No

Turnaround Time ☒ SAME DAY ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr

Standard

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

ORIGINS

Y407038

Page 1 of 1

LABORATORY INC
Client: TASMAN/OXY

Project Manager: Andy Sagen

Key:

Address: 6855 W 119th Ave, Broomfield, Co 80020

Project Name: CARMA 14-35

W=Water

Project Number:

GW=Groundwater

Telephone Number: PM Contact # (720) 939-3631

Collected By: Kevin Magoni

SW=Surface Water

Email Address: OXY/Tasman distribution list

Invoice/Billing Info:

WW=Waste Water

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date	Time	# of Containers	Matrix	Preservative	Analysis						Comments
							GBTEXN+	TMBS	DRO/ORO	PAH	PH/EC/SAR	Boron	
1	B-05@3	7/1	14:38	2	S					X	X	X	
2	B-05@6		14:40	2						X	X	X	
3	B-06@3		14:42	2						X	X	X	
4	B-06@6		14:44	2						X	X	X	
5	F-02@4		15:03	1						X			
6													
7													
8													
9													
10													

1/25 Elk Place Denver, Co 80211 | 303.433.1322 | originslab.com

Temp Received- 9.8 Received On Ice?

☒ Yes ☐ No

☐ Standard

☐ 48 Hr ☐ 72 Hr

☒ SAME DAY

☐ 24 Hr

Turnaround Time

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4407038

Client: Tasman

Client Project ID: Carma 14-35

Checklist Completed by: EAD

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

Date/Time completed: 7/1/12

Airbill #: N/A

Matrix(s) Received: (Check all that apply): 0 Soil/Solid

Water

Other:

Cooler Number/Temperature: 1 / 98 °C / °C / °C (Describe)

Thermometer ID: T005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?				<u>SD</u>
Is there ice present (document if blue ice is used)	<u>/</u>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			<u>/</u>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			<u>/</u>	
Were all samples received intact ⁽¹⁾ ?	<u>/</u>			
Was adequate sample volume provided ⁽¹⁾ ?	<u>/</u>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<u>/</u>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<u>/</u>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<u>/</u>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<u>/</u>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<u>/</u>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<u>/</u>	
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)			<u>/</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) EAD

7/1/12
Date/Time Reviewed

Origins Laboratory, Inc.

Jen Pellegrini

Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

WH-B01@6'
7/1/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.334	0.101	mg/L	1	B4G0215	07/02/2024	07/03/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G0141	07/01/2024	07/02/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	94.8 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G0148	07/01/2024	07/01/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

WH-B01@6'

7/1/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.7 %	70-130				B4G01 48	07/01/2024	07/01/2024	
Surrogate: 4-Bromofluorobenzene	107 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	07/02/2024	07/03/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	12.6	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.003	0.002	mg/kg	1	B4G0140	07/01/2024	07/02/2024	
2-Methylnaphthalene	0.004	0.002	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

WH-B01@6'

7/1/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-01 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4G0140	07/01/2024	07/02/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	105 %	60-130	"	"	"
Surrogate: Anthracene-d10	90.2 %	60-130	"	"	"
Surrogate: Pyrene-d10	93.4 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

pH in Soil by 9045D

pH	9.93	pH Units	1	B4G0221	07/02/2024	07/03/2024
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SAR by 20B Saturated Paste

SAR	74.4	0.0100	SAR	1	B4G0210	07/02/2024	07/03/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.34	0.00500	mmhos/cm	1	B4G0221	07/02/2024	07/03/2024
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

WH-B01@6'

7/1/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.13	0.251	mg/kg	10	B4G0147	07/01/2024	07/02/2024	
Barium	657	8.67	"	"	"	"	"	
Cadmium	0.130	0.0867	"	"	"	"	"	
Copper	ND	8.67	"	"	"	"	"	Ua
Lead	68.9	0.867	"	"	"	"	"	
Nickel	8.12	0.867	"	"	"	"	"	
Selenium	ND	0.225	"	"	"	"	"	Ua
Silver	ND	0.0867	"	"	"	"	"	Ua
Zinc	34.6	32.1	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.183	0.457	mg/kg dry	1	2642985	07/18/2024	07/26/2024	HU
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

FL-B10@4'

7/1/2024 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.223	0.0993	mg/L	1	B4G0215	07/02/2024	07/03/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G0141	07/01/2024	07/02/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	87.5 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G0148	07/01/2024	07/01/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	0.00366	0.00200	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	0.00628	0.00200	"	"	"	"	"	
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.7 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

FL-B10@4'

7/1/2024 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	102 %	70-130	B4G01 48	07/01/2024	07/01/2024
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Metals by Saturated Paste by EPA 6010

Calcium	3.22	0.499	meq/L	10	[CALC]	07/02/2024	07/03/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G0140	07/01/2024	07/02/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

FL-B10@4'

7/1/2024 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-02 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B4G0140	07/01/2024	07/02/2024	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	105 %	60-130	"	"	"
Surrogate: Anthracene-d10	90.2 %	60-130	"	"	"
Surrogate: Pyrene-d10	96.1 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.3 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.50	pH Units	1	B4G0221	07/02/2024	07/03/2024
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SAR by 20B Saturated Paste

SAR	0.192	0.0100	SAR	1	B4G0210	07/02/2024	07/03/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.464	0.00500	mmhos/cm	1	B4G0221	07/02/2024	07/03/2024
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Table 915 metals by EPA 6020B

Arsenic	2.09	0.272	mg/kg	10	B4G0147	07/01/2024	07/02/2024
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Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

FL-B10@4'

7/1/2024 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-02 (Soil)

Table 915 metals by EPA 6020B

Barium	61.6	9.38	mg/kg	10	B4G0147	07/01/2024	07/02/2024	
Cadmium	0.118	0.0938	"	"	"	"	"	
Copper	ND	9.38	"	"	"	"	"	Ua
Lead	15.9	0.938	"	"	"	"	"	
Nickel	5.38	0.938	"	"	"	"	"	
Selenium	ND	0.244	"	"	"	"	"	Ua
Silver	0.0957	0.0938	"	"	"	"	"	
Zinc	ND	34.7	"	"	"	"	"	Ua

Total Metals 7196A

Hexavalent Chromium	ND	0.174	0.436	mg/kg dry	1	2642985	07/18/2024	07/26/2024	HU
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Origins Laboratory, Inc.



The results in 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

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

BG-01@3'

7/1/2024 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.793	0.101	mg/L	1	B4G0215	07/02/2024	07/03/2024
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Metals by Saturated Paste by EPA 6010

Calcium	14.1	0.499	meq/L	10	[CALC]	07/02/2024	07/03/2024
Magnesium	8.03	0.823	"	"	"	"	"
Sodium	3.63	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.29		pH Units	1	B4G0221	07/02/2024	07/03/2024
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SAR by 20B Saturated Paste

SAR	1.09	0.0100	SAR	1	B4G0210	07/02/2024	07/03/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.23	0.00500	mmhos/cm	1	B4G0221	07/02/2024	07/03/2024
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Table 915 metals by EPA 6020B

Arsenic	3.72	0.248	mg/kg	10	B4G0147	07/01/2024	07/02/2024
Barium	105	8.54	"	"	"	"	"
Cadmium	0.231	0.0854	"	"	"	"	"
Copper	16.6	8.54	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

BG-01@3'

7/1/2024 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-03 (Soil)

Table 915 metals by EPA 6020B

Lead	21.8	0.854	mg/kg	10	B4G0147	07/01/2024	07/02/2024
Nickel	9.95	0.854	"	"	"	"	"
Selenium	0.374	0.222	"	"	"	"	"
Silver	0.213	0.0854	"	"	"	"	"
Zinc	50.6	31.6	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.115	0.288	mg/kg dry	1	2642985	07/18/2024	07/26/2024	HU
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Origins Laboratory, Inc.



The results in 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

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

BG-01@6'

7/1/2024 2:22:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.462	0.0998	mg/L	1	B4G0215	07/02/2024	07/03/2024
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Metals by Saturated Paste by EPA 6010

Calcium	15.3	0.499	meq/L	10	[CALC]	07/02/2024	07/03/2024
Magnesium	8.28	0.823	"	"	"	"	"
Sodium	3.18	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.33		pH Units	1	B4G0221	07/02/2024	07/03/2024
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SAR by 20B Saturated Paste

SAR	0.927	0.0100	SAR	1	B4G0210	07/02/2024	07/03/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.02	0.00500	mmhos/cm	1	B4G0221	07/02/2024	07/03/2024
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Table 915 metals by EPA 6020B

Arsenic	1.49	0.262	mg/kg	10	B4G0147	07/01/2024	07/02/2024	
Barium	27.3	9.04	"	"	"	"	"	
Cadmium	ND	0.0904	"	"	"	"	"	Ua
Copper	ND	9.04	"	"	"	"	"	Ua

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

BG-01@6'

7/1/2024 2:22:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-04 (Soil)

Table 915 metals by EPA 6020B

Lead	6.77		0.904	mg/kg	10	B4G0147	07/01/2024	07/02/2024	
Nickel	4.26		0.904	"	"	"	"	"	
Selenium	ND		0.235	"	"	"	"	"	Ua
Silver	ND		0.0904	"	"	"	"	"	Ua
Zinc	ND		33.4	"	"	"	"	"	Ua

Total Metals 7196A

Hexavalent Chromium	ND	0.164	0.409	mg/kg dry	1	2642985	07/18/2024	07/26/2024	HU
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Origins Laboratory, Inc.



The results in 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

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

BG-02@3'

7/1/2024 2:24:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.438	0.0991	mg/L	1	B4G0215	07/02/2024	07/03/2024
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Metals by Saturated Paste by EPA 6010

Calcium	4.02	0.499	meq/L	10	[CALC]	07/02/2024	07/03/2024
Magnesium	1.38	0.823	"	"	"	"	"
Sodium	2.68	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.62		pH Units	1	B4G0221	07/02/2024	07/03/2024
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SAR by 20B Saturated Paste

SAR	1.63	0.0100	SAR	1	B4G0210	07/02/2024	07/03/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.829	0.00500	mmhos/cm	1	B4G0221	07/02/2024	07/03/2024
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Table 915 metals by EPA 6020B

Arsenic	3.10	0.251	mg/kg	10	B4G0147	07/01/2024	07/02/2024
Barium	143	8.64	"	"	"	"	"
Cadmium	0.208	0.0864	"	"	"	"	"
Copper	15.2	8.64	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

BG-02@3'

7/1/2024 2:24:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-05 (Soil)

Table 915 metals by EPA 6020B

Lead	33.9	0.864	mg/kg	10	B4G0147	07/01/2024	07/02/2024
Nickel	7.38	0.864	"	"	"	"	"
Selenium	0.244	0.225	"	"	"	"	"
Silver	0.187	0.0864	"	"	"	"	"
Zinc	51.1	32.0	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	0.126	0.110	0.275	mg/kg dry	1	2642985	07/18/2024	07/26/2024	HJ
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Origins Laboratory, Inc.



The results in 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

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

BG-02@6'

7/1/2024 2:28:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.255	0.0984	mg/L	1	B4G0215	07/02/2024	07/03/2024
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Metals by Saturated Paste by EPA 6010

Calcium	3.04	0.499	meq/L	10	[CALC]	07/02/2024	07/03/2024
Magnesium	0.932	0.823	"	"	"	"	"
Sodium	2.30	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.20		pH Units	1	B4G0221	07/02/2024	07/03/2024
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SAR by 20B Saturated Paste

SAR	1.63	0.0100	SAR	1	B4G0210	07/02/2024	07/03/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.691	0.00500	mmhos/cm	1	B4G0221	07/02/2024	07/03/2024
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Table 915 metals by EPA 6020B

Arsenic	2.73	0.263	mg/kg	10	B4G0147	07/01/2024	07/02/2024
Barium	109	9.08	"	"	"	"	"
Cadmium	0.161	0.0908	"	"	"	"	"
Copper	11.0	9.08	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

BG-02@6'

7/1/2024 2:28:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-06 (Soil)

Table 915 metals by EPA 6020B

Lead	19.9		0.908	mg/kg	10	B4G0147	07/01/2024	07/02/2024	
Nickel	6.05		0.908	"	"	"	"	"	
Selenium	ND		0.236	"	"	"	"	"	Ua
Silver	0.151		0.0908	"	"	"	"	"	
Zinc	36.6		33.6	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	0.142	0.100	0.250	mg/kg dry	1	2642985	07/18/2024	07/26/2024	HJ
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Origins Laboratory, Inc.



The results in 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

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

BG-03@3'

7/1/2024 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-07 (Soil)

Boron (DTPA Sorbitol)

Boron	1.53	0.101	mg/L	1	B4G0215	07/02/2024	07/03/2024
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Metals by Saturated Paste by EPA 6010

Calcium	28.1	0.499	meq/L	10	[CALC]	07/02/2024	07/03/2024
Magnesium	19.9	0.823	"	"	"	"	"
Sodium	5.04	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.92		pH Units	1	B4G0221	07/02/2024	07/03/2024
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SAR by 20B Saturated Paste

SAR	1.03	0.0100	SAR	1	B4G0210	07/02/2024	07/03/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.52	0.00500	mmhos/cm	1	B4G0221	07/02/2024	07/03/2024
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Table 915 metals by EPA 6020B

Arsenic	2.34	0.272	mg/kg	10	B4G0147	07/01/2024	07/02/2024
Barium	56.9	9.37	"	"	"	"	"
Cadmium	0.127	0.0937	"	"	"	"	"
Copper	ND	9.37	"	"	"	"	"

Ua

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

BG-03@3'

7/1/2024 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-07 (Soil)

Table 915 metals by EPA 6020B

Lead	13.2	0.937	mg/kg	10	B4G0147	07/01/2024	07/02/2024
Nickel	7.33	0.937	"	"	"	"	"
Selenium	0.604	0.244	"	"	"	"	"
Silver	0.120	0.0937	"	"	"	"	"
Zinc	35.3	34.7	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.159	0.396	mg/kg dry	1	2642985	07/18/2024	07/26/2024	HU
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Origins Laboratory, Inc.



The results in 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

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

BG-03@6'

7/1/2024 2:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.149	0.0993	mg/L	1	B4G0215	07/02/2024	07/03/2024
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Metals by Saturated Paste by EPA 6010

Calcium	10.2	0.499	meq/L	10	[CALC]	07/02/2024	07/03/2024
Magnesium	3.39	0.823	"	"	"	"	"
Sodium	1.36	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.49		pH Units	1	B4G0221	07/02/2024	07/03/2024
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SAR by 20B Saturated Paste

SAR	0.521	0.0100	SAR	1	B4G0210	07/02/2024	07/03/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.27	0.00500	mmhos/cm	1	B4G0221	07/02/2024	07/03/2024
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Table 915 metals by EPA 6020B

Arsenic	2.16	0.280	mg/kg	10	B4G0147	07/01/2024	07/02/2024	
Barium	26.9	9.66	"	"	"	"	"	
Cadmium	ND	0.0966	"	"	"	"	"	Ua
Copper	ND	9.66	"	"	"	"	"	Ua

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

BG-03@6'

7/1/2024 2:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-08 (Soil)

Table 915 metals by EPA 6020B

Lead	8.00	0.966	mg/kg	10	B4G0147	07/01/2024	07/02/2024	
Nickel	3.86	0.966	"	"	"	"	"	
Selenium	1.02	0.251	"	"	"	"	"	
Silver	0.172	0.0966	"	"	"	"	"	
Zinc	ND	35.7	"	"	"	"	"	Ua

Total Metals 7196A

Hexavalent Chromium	ND	0.121	0.302	mg/kg dry	1	2642985	07/18/2024	07/26/2024	HU
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Origins Laboratory, Inc.



The results in 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

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

BG-04@3'

7/1/2024 2:34:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.393	0.0999	mg/L	1	B4G0215	07/02/2024	07/03/2024
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Metals by Saturated Paste by EPA 6010

Calcium	24.1	0.499	meq/L	10	[CALC]	07/02/2024	07/03/2024
Magnesium	43.9	0.823	"	"	"	"	"
Sodium	23.4	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.14		pH Units	1	B4G0221	07/02/2024	07/03/2024
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SAR by 20B Saturated Paste

SAR	4.01	0.0100	SAR	1	B4G0210	07/02/2024	07/03/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.67	0.00500	mmhos/cm	1	B4G0221	07/02/2024	07/03/2024
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Table 915 metals by EPA 6020B

Arsenic	6.15	0.252	mg/kg	10	B4G0147	07/01/2024	07/02/2024
Barium	75.0	8.70	"	"	"	"	"
Cadmium	0.139	0.0870	"	"	"	"	"
Copper	13.6	8.70	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

BG-04@3'

7/1/2024 2:34:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-09 (Soil)

Table 915 metals by EPA 6020B

Lead	14.8	0.870	mg/kg	10	B4G0147	07/01/2024	07/02/2024
Nickel	15.0	0.870	"	"	"	"	"
Selenium	0.457	0.226	"	"	"	"	"
Silver	0.0991	0.0870	"	"	"	"	"
Zinc	57.7	32.2	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.116	0.289	mg/kg dry	1	2642985	07/18/2024	07/26/2024	HU
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Origins Laboratory, Inc.



The results in 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

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

BG-04@6'

7/1/2024 2:36:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-10 (Soil)

Boron (DTPA Sorbitol)

Boron	0.293	0.100	mg/L	1	B4G0215	07/02/2024	07/03/2024
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Metals by Saturated Paste by EPA 6010

Calcium	26.6	0.499	meq/L	10	[CALC]	07/02/2024	07/03/2024
Magnesium	31.6	0.823	"	"	"	"	"
Sodium	16.0	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.24	pH Units	1	B4G0221	07/02/2024	07/03/2024
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SAR by 20B Saturated Paste

SAR	2.97	0.0100	SAR	1	B4G0210	07/02/2024	07/03/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.66	0.00500	mmhos/cm	1	B4G0221	07/02/2024	07/03/2024
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Table 915 metals by EPA 6020B

Arsenic	1.99	0.267	mg/kg	10	B4G0147	07/01/2024	07/02/2024	
Barium	33.5	9.20	"	"	"	"	"	
Cadmium	ND	0.0920	"	"	"	"	"	Ua
Copper	ND	9.20	"	"	"	"	"	Ua

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

BG-04@6'

7/1/2024 2:36:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-10 (Soil)

Table 915 metals by EPA 6020B

Lead	8.64	0.920	mg/kg	10	B4G0147	07/01/2024	07/02/2024	
Nickel	4.38	0.920	"	"	"	"	"	
Selenium	0.366	0.239	"	"	"	"	"	
Silver	ND	0.0920	"	"	"	"	"	Ua
Zinc	ND	34.0	"	"	"	"	"	Ua

Total Metals 7196A

Hexavalent Chromium	ND	0.110	0.275	mg/kg dry	1	2642985	07/18/2024	07/26/2024	HU
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Origins Laboratory, Inc.



The results in 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

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

BG-05@3'

7/1/2024 2:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-11 (Soil)

Boron (DTPA Sorbitol)

Boron	0.356	0.0984	mg/L	1	B4G0215	07/02/2024	07/03/2024
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Metals by Saturated Paste by EPA 6010

Calcium	6.93	0.499	meq/L	10	[CALC]	07/02/2024	07/03/2024
Magnesium	3.39	0.823	"	"	"	"	"
Sodium	6.51	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.40		pH Units	1	B4G0221	07/02/2024	07/03/2024
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SAR by 20B Saturated Paste

SAR	2.86	0.0100	SAR	1	B4G0210	07/02/2024	07/03/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.66	0.00500	mmhos/cm	1	B4G0221	07/02/2024	07/03/2024
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Table 915 metals by EPA 6020B

Arsenic	2.02	0.249	mg/kg	10	B4G0147	07/01/2024	07/02/2024
Barium	62.9	8.60	"	"	"	"	"
Cadmium	0.116	0.0860	"	"	"	"	"
Copper	ND	8.60	"	"	"	"	"

Ua

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

BG-05@3'

7/1/2024 2:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-11 (Soil)

Table 915 metals by EPA 6020B

Lead	8.88	0.860	mg/kg	10	B4G0147	07/01/2024	07/02/2024	
Nickel	5.10	0.860	"	"	"	"	"	
Selenium	ND	0.223	"	"	"	"	"	Ua
Silver	ND	0.0860	"	"	"	"	"	Ua
Zinc	ND	31.8	"	"	"	"	"	Ua

Total Metals 7196A

Hexavalent Chromium	ND	0.177	0.444	mg/kg dry	1	2642985	07/18/2024	07/26/2024	HU
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Origins Laboratory, Inc.



The results in 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

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

BG-05@6'

7/1/2024 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-12 (Soil)

Boron (DTPA Sorbitol)

Boron	0.399	0.101	mg/L	1	B4G0215	07/02/2024	07/03/2024
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Metals by Saturated Paste by EPA 6010

Calcium	26.9	0.499	meq/L	10	[CALC]	07/02/2024	07/03/2024
Magnesium	9.82	0.823	"	"	"	"	"
Sodium	8.27	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.28		pH Units	1	B4G0221	07/02/2024	07/03/2024
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SAR by 20B Saturated Paste

SAR	1.93	0.0100	SAR	1	B4G0210	07/02/2024	07/03/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.35	0.00500	mmhos/cm	1	B4G0221	07/02/2024	07/03/2024
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Table 915 metals by EPA 6020B

Arsenic	3.21	0.287	mg/kg	10	B4G0147	07/01/2024	07/02/2024
Barium	167	9.90	"	"	"	"	"
Cadmium	0.185	0.0990	"	"	"	"	"
Copper	10.3	9.90	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

BG-05@6'

7/1/2024 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-12 (Soil)

Table 915 metals by EPA 6020B

Lead	47.5	0.990	mg/kg	10	B4G0147	07/01/2024	07/02/2024	
Nickel	6.41	0.990	"	"	"	"	"	
Selenium	ND	0.257	"	"	"	"	"	Ua
Silver	ND	0.0990	"	"	"	"	"	Ua
Zinc	41.0	36.6	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.128	0.320	mg/kg dry	1	2642985	07/18/2024	07/26/2024	HU
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Origins Laboratory, Inc.



The results in 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

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

BG-06@3'

7/1/2024 2:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-13 (Soil)

Boron (DTPA Sorbitol)

Boron	1.20	0.100	mg/L	1	B4G0215	07/02/2024	07/03/2024
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Metals by Saturated Paste by EPA 6010

Calcium	24.3	0.499	meq/L	10	[CALC]	07/02/2024	07/03/2024
Magnesium	44.7	0.823	"	"	"	"	"
Sodium	32.4	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.24		pH Units	1	B4G0221	07/02/2024	07/03/2024
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SAR by 20B Saturated Paste

SAR	5.51	0.0100	SAR	1	B4G0210	07/02/2024	07/03/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	6.55	0.00500	mmhos/cm	1	B4G0221	07/02/2024	07/03/2024
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Table 915 metals by EPA 6020B

Arsenic	1.59	0.246	mg/kg	10	B4G0147	07/01/2024	07/02/2024	
Barium	29.4	8.49	"	"	"	"	"	
Cadmium	ND	0.0849	"	"	"	"	"	Ua
Copper	ND	8.49	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

BG-06@3'

7/1/2024 2:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-13 (Soil)

Table 915 metals by EPA 6020B

Lead	8.05	0.849	mg/kg	10	B4G0147	07/01/2024	07/02/2024	
Nickel	4.31	0.849	"	"	"	"	"	
Selenium	0.268	0.221	"	"	"	"	"	
Silver	0.100	0.0849	"	"	"	"	"	
Zinc	ND	31.4	"	"	"	"	"	Ua

Total Metals 7196A

Hexavalent Chromium	ND	0.130	0.325	mg/kg dry	1	2642985	07/18/2024	07/26/2024	HU
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Origins Laboratory, Inc.



The results in 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

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

BG-06@6'

7/1/2024 2:44:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-14 (Soil)

Boron (DTPA Sorbitol)

Boron	0.653	0.100	mg/L	1	B4G0215	07/02/2024	07/03/2024
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Metals by Saturated Paste by EPA 6010

Calcium	23.3	0.499	meq/L	10	[CALC]	07/02/2024	07/03/2024
Magnesium	23.7	0.823	"	"	"	"	"
Sodium	16.7	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.23	pH Units	1	B4G0222	07/02/2024	07/03/2024
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SAR by 20B Saturated Paste

SAR	3.44	0.0100	SAR	1	B4G0211	07/02/2024	07/03/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.35	0.00500	mmhos/cm	1	B4G0222	07/02/2024	07/03/2024
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Table 915 metals by EPA 6020B

Arsenic	1.41	0.289	mg/kg	10	B4G0147	07/01/2024	07/02/2024	
Barium	30.0	9.95	"	"	"	"	"	
Cadmium	ND	0.0995	"	"	"	"	"	Ua
Copper	ND	9.95	"	"	"	"	"	Ua

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

BG-06@6'

7/1/2024 2:44:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-14 (Soil)

Table 915 metals by EPA 6020B

Lead	7.83	0.995	mg/kg	10	B4G0147	07/01/2024	07/02/2024	
Nickel	3.76	0.995	"	"	"	"	"	
Selenium	ND	0.259	"	"	"	"	"	Ua
Silver	ND	0.0995	"	"	"	"	"	Ua
Zinc	ND	36.8	"	"	"	"	"	Ua

Total Metals 7196A

Hexavalent Chromium	ND	0.0983	0.246	mg/kg dry	1	2642985	07/18/2024	07/26/2024	HU
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

FL-B12@4'

7/1/2024 3:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-15 (Soil)

Boron (DTPA Sorbitol)

Boron	1.33	0.100	mg/L	1	B4G0215	07/02/2024	07/03/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G0141	07/01/2024	07/02/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	91.7 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G0148	07/01/2024	07/01/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	"	"	"	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

FL-B12@4'

7/1/2024 3:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-15 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.8 %	70-130				B4G01 48	07/01/2024	07/01/2024	
Surrogate: 4-Bromofluorobenzene	101 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	24.7	0.499	meq/L	10	[CALC]	07/02/2024	07/03/2024	
Magnesium	33.6	0.823	"	"	"	"	"	
Sodium	24.4	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G0140	07/01/2024	07/02/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

FL-B12@4'

7/1/2024 3:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-15 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4G0140	07/01/2024	07/02/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	103 %	60-130	"	"	"
Surrogate: Anthracene-d10	89.8 %	60-130	"	"	"
Surrogate: Pyrene-d10	96.7 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.40	pH Units	1	B4G0222	07/02/2024	07/03/2024
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SAR by 20B Saturated Paste

SAR	4.53	0.0100	SAR	1	B4G0211	07/02/2024	07/03/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.23	0.00500	mmhos/cm	1	B4G0222	07/02/2024	07/03/2024
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

FL-B12@4'

7/1/2024 3:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407038-15 (Soil)

Table 915 metals by EPA 6020B

Arsenic	7.46	0.279	mg/kg	10	B4G0147	07/01/2024	07/02/2024	
Barium	87.0	9.61	"	"	"	"	"	
Cadmium	0.0970	0.0961	"	"	"	"	"	
Copper	ND	9.61	"	"	"	"	"	Ua
Lead	11.1	0.961	"	"	"	"	"	
Nickel	10.9	0.961	"	"	"	"	"	
Selenium	ND	0.250	"	"	"	"	"	Ua
Silver	ND	0.0961	"	"	"	"	"	Ua
Zinc	47.9	35.5	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.0982	0.245	mg/kg dry	1	2642985	07/18/2024	07/26/2024	HU
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

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 B4G0141 - EPA 3550B										
Blank (B4G0141-BLK1)					Prepared: 07/01/2024 Analyzed: 07/01/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	23		"	24.9		94.0	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

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 B4G0141 - EPA 3550B										
LCS (B4G0141-BS1)					Prepared: 07/01/2024 Analyzed: 07/01/2024					
Diesel (C10-C28)	887	50.0	mg/kg	1000		88.7	70-130			
Residual Range Organics (C28-C40)	966	200	"	1000		96.6	70-130			
Surrogate: o-Terphenyl	43		"	49.8		86.1	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G0141 - EPA 3550B

Matrix Spike (B4G0141-MS1)		Source: Y407028-01			Prepared: 07/01/2024 Analyzed: 07/01/2024					
Diesel (C10-C28)	907	50.0	mg/kg	1000	ND	90.7	70-130			
Residual Range Organics (C28-C40)	1070	200	"	1000	94.8	97.1	70-130			
Surrogate: o-Terphenyl	43		"	49.8		85.9	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

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 B4G0141 - EPA 3550B										
Matrix Spike Dup (B4G0141-MSD1)		Source: Y407028-01			Prepared: 07/01/2024 Analyzed: 07/01/2024					
Diesel (C10-C28)	973	50.0	mg/kg	1000	ND	97.3	70-130	7.02	35	
Residual Range Organics (C28-C40)	1210	200	"	1000	94.8	112	70-130	12.7	35	
Surrogate: o-Terphenyl	45		"	49.8		90.4	50-150			

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Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

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 B4G0148 - EPA 5030 (soil)										
Blank (B4G0148-BLK1)					Prepared: 07/01/2024 Analyzed: 07/01/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

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 B4G0148 - EPA 5030 (soil)										
LCS (B4G0148-BS1)					Prepared: 07/01/2024 Analyzed: 07/01/2024					
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Benzene	0.0976	0.00200	"	0.100		97.6	70-130			
Ethylbenzene	0.0976	0.00200	"	0.100		97.6	70-130			
Naphthalene	0.110	0.00380	"	0.100		110	70-130			
Toluene	0.0922	0.00200	"	0.100		92.2	70-130			
o-Xylene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.200	0.00400	"	0.200		99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

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 B4G0148 - EPA 5030 (soil)										
Matrix Spike (B4G0148-MS1)		Source: Y407038-01			Prepared: 07/01/2024 Analyzed: 07/01/2024					
1,2,4-Trimethylbenzene	0.0808	0.00200	mg/kg	0.100	ND	80.8	70-130			
1,3,5-Trimethylbenzene	0.0801	0.00200	"	0.100	ND	80.1	70-130			
Benzene	0.0788	0.00200	"	0.100	ND	78.8	70-130			
Ethylbenzene	0.0808	0.00200	"	0.100	ND	80.8	70-130			
Naphthalene	0.0708	0.00380	"	0.100	0.00190	68.9	70-130			QM-07
Toluene	0.0743	0.00200	"	0.100	ND	74.3	70-130			
o-Xylene	0.0831	0.00200	"	0.100	ND	83.1	70-130			
m,p-Xylene	0.165	0.00400	"	0.200	ND	82.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

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 B4G0148 - EPA 5030 (soil)										
Matrix Spike Dup (B4G0148-MSD1)		Source: Y407038-01			Prepared: 07/01/2024 Analyzed: 07/01/2024					
1,2,4-Trimethylbenzene	0.0877	0.00200	mg/kg	0.100	ND	87.7	70-130	8.14	20	
1,3,5-Trimethylbenzene	0.0863	0.00200	"	0.100	ND	86.3	70-130	7.48	20	
Benzene	0.0867	0.00200	"	0.100	ND	86.7	70-130	9.57	20	
Ethylbenzene	0.0895	0.00200	"	0.100	ND	89.5	70-130	10.2	20	
Naphthalene	0.0775	0.00380	"	0.100	0.00190	75.6	70-130	9.14	20	
Toluene	0.0814	0.00200	"	0.100	ND	81.4	70-130	9.04	20	
o-Xylene	0.0924	0.00200	"	0.100	ND	92.4	70-130	10.6	20	
m,p-Xylene	0.182	0.00400	"	0.200	ND	91.0	70-130	9.92	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		108	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
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Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G0147 - EPA 3050B

Blank (B4G0147-BLK1)

Prepared: 07/01/2024 Analyzed: 07/02/2024

Arsenic	ND	0.290	mg/kg							Ua
Barium	ND	10.0	"							Ua
Cadmium	ND	0.100	"							Ua
Copper	ND	10.0	"							Ua
Lead	ND	1.00	"							Ua
Nickel	ND	1.00	"							Ua
Selenium	ND	0.260	"							Ua
Silver	ND	0.100	"							Ua
Zinc	ND	37.0	"							Ua

LCS (B4G0147-BS1)

Prepared: 07/01/2024 Analyzed: 07/02/2024

Arsenic	5.07	0.290	mg/kg	5.00		101	80-120
Barium	531	10.0	"	500		106	80-120
Cadmium	5.29	0.100	"	5.00		106	80-120
Copper	48.5	10.0	"	50.0		97.0	80-120
Lead	5.04	1.00	"	5.00		101	80-120
Nickel	4.90	1.00	"	5.00		98.0	80-120
Selenium	5.26	0.260	"	5.00		105	80-120
Silver	5.11	0.100	"	5.00		102	80-120
Zinc	48.8	37.0	"	50.0		97.6	80-120

Matrix Spike (B4G0147-MS1)

Source: Y407038-04

Prepared: 07/01/2024 Analyzed: 07/02/2024

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G0147 - EPA 3050B

Matrix Spike (B4G0147-MS1)		Source: Y407038-04			Prepared: 07/01/2024 Analyzed: 07/02/2024					
Arsenic	5.83	0.282	mg/kg	4.86	1.49	89.3	75-125			
Barium	516	9.73	"	486	27.3	101	75-125			
Cadmium	5.00	0.0973	"	4.86	0.0587	102	75-125			
Copper	49.5	9.73	"	48.6	4.44	92.7	75-125			
Lead	10.6	0.973	"	4.86	6.77	78.9	75-125			
Nickel	7.30	0.973	"	4.86	4.26	62.5	75-125			QM-07
Selenium	5.12	0.253	"	4.86	0.183	102	75-125			
Silver	4.85	0.0973	"	4.86	0.0515	98.7	75-125			
Zinc	58.6	36.0	"	48.6	15.1	89.5	75-125			
Matrix Spike Dup (B4G0147-MSD1)		Source: Y407038-04			Prepared: 07/01/2024 Analyzed: 07/02/2024					
Arsenic	6.25	0.288	mg/kg	4.97	1.49	95.7	75-125	6.97	20	
Barium	545	9.95	"	497	27.3	104	75-125	5.38	20	
Cadmium	5.39	0.0995	"	4.97	0.0587	107	75-125	7.68	20	
Copper	53.2	9.95	"	49.7	4.44	98.1	75-125	7.29	20	
Lead	11.9	0.995	"	4.97	6.77	103	75-125	11.5	20	
Nickel	8.37	0.995	"	4.97	4.26	82.6	75-125	13.7	20	
Selenium	5.12	0.259	"	4.97	0.183	99.2	75-125	0.0631	20	
Silver	5.23	0.0995	"	4.97	0.0515	104	75-125	7.43	20	
Zinc	64.5	36.8	"	49.7	15.1	99.4	75-125	9.59	20	

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Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G0140 - EPA 3580

Blank (B4G0140-BLK1)

Prepared: 07/01/2024 Analyzed: 07/02/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua

Surrogate: Fluorene-d10	210		ug/kg	200	105	60-130
Surrogate: Anthracene-d10	180		"	200	90.7	60-130
Surrogate: Pyrene-d10	200		"	200	97.7	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200	102	60-130

LCS (B4G0140-BS1)

Prepared: 07/01/2024 Analyzed: 07/02/2024

1-Methylnaphthalene	0.210	0.002	mg/kg	0.200	105	70-130
2-Methylnaphthalene	0.209	0.002	"	0.200	105	70-130
Acenaphthene	0.220	0.020	"	0.200	110	70-130
Anthracene	0.192	0.020	"	0.200	96.2	70-130

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G0140 - EPA 3580

LCS (B4G0140-BS1)

Prepared: 07/01/2024 Analyzed: 07/02/2024

Benzo (a) anthracene	0.208	0.005	mg/kg	0.200		104	70-130
Benzo (a) pyrene	0.213	0.020	"	0.200		107	70-130
Benzo (b) fluoranthene	0.217	0.020	"	0.200		109	70-130
Benzo (g,h,i) perylene	0.216	0.020	"	0.200		108	70-130
Benzo (k) fluoranthene	0.217	0.020	"	0.200		108	70-130
Chrysene	0.206	0.020	"	0.200		103	70-130
Dibenz (a,h) anthracene	0.218	0.020	"	0.200		109	70-130
Fluoranthene	0.208	0.020	"	0.200		104	70-130
Fluorene	0.231	0.020	"	0.200		116	70-130
Indeno (1,2,3-cd) pyrene	0.206	0.020	"	0.200		103	70-130
Naphthalene	0.223	0.002	"	0.200		112	70-130
Phenanthrene	0.201	0.020	"	0.200		101	70-130
Pyrene	0.199	0.020	"	0.200		99.3	70-130
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130
Surrogate: Anthracene-d10	180		"	200		90.3	60-130
Surrogate: Pyrene-d10	190		"	200		96.4	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130

Matrix Spike (B4G0140-MS1)

Source: Y407028-01

Prepared: 07/01/2024 Analyzed: 07/02/2024

1-Methylnaphthalene	0.216	0.002	mg/kg	0.200	ND	108	70-130
2-Methylnaphthalene	0.217	0.002	"	0.200	ND	108	70-130
Acenaphthene	0.228	0.020	"	0.200	ND	114	70-130
Anthracene	0.208	0.020	"	0.200	ND	104	70-130
Benzo (a) anthracene	0.218	0.005	"	0.200	0.002	108	70-130
Benzo (a) pyrene	0.220	0.020	"	0.200	0.003	108	70-130
Benzo (b) fluoranthene	0.225	0.020	"	0.200	0.004	111	70-130
Benzo (g,h,i) perylene	0.229	0.020	"	0.200	0.004	113	70-130

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G0140 - EPA 3580

Matrix Spike (B4G0140-MS1)		Source: Y407028-01			Prepared: 07/01/2024 Analyzed: 07/02/2024					
Benzo (k) fluoranthene	0.221	0.020	mg/kg	0.200	0.001	110	70-130			
Chrysene	0.213	0.020	"	0.200	0.003	105	70-130			
Dibenz (a,h) anthracene	0.230	0.020	"	0.200	0.0009	115	70-130			
Fluoranthene	0.221	0.020	"	0.200	0.005	108	70-130			
Fluorene	0.239	0.020	"	0.200	ND	119	70-130			
Indeno (1,2,3-cd) pyrene	0.223	0.020	"	0.200	0.003	110	70-130			
Naphthalene	0.230	0.002	"	0.200	ND	115	70-130			
Phenanthrene	0.208	0.020	"	0.200	ND	104	70-130			
Pyrene	0.190	0.020	"	0.200	0.004	93.1	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130			
Surrogate: Anthracene-d10	180		"	200		91.1	60-130			
Surrogate: Pyrene-d10	180		"	200		88.8	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.0	60-130			

Matrix Spike Dup (B4G0140-MSD1)		Source: Y407028-01			Prepared: 07/01/2024 Analyzed: 07/02/2024					
1-Methylnaphthalene	0.207	0.002	mg/kg	0.200	ND	103	70-130	4.54	20	
2-Methylnaphthalene	0.207	0.002	"	0.200	ND	103	70-130	4.75	20	
Acenaphthene	0.216	0.020	"	0.200	ND	108	70-130	5.16	20	
Anthracene	0.199	0.020	"	0.200	ND	99.5	70-130	4.20	20	
Benzo (a) anthracene	0.214	0.005	"	0.200	0.002	106	70-130	1.51	20	
Benzo (a) pyrene	0.214	0.020	"	0.200	0.003	106	70-130	2.44	20	
Benzo (b) fluoranthene	0.220	0.020	"	0.200	0.004	108	70-130	2.26	20	
Benzo (g,h,i) perylene	0.226	0.020	"	0.200	0.004	111	70-130	1.48	20	
Benzo (k) fluoranthene	0.218	0.020	"	0.200	0.001	109	70-130	1.05	20	
Chrysene	0.213	0.020	"	0.200	0.003	105	70-130	0.156	20	
Dibenz (a,h) anthracene	0.222	0.020	"	0.200	0.0009	111	70-130	3.47	20	
Fluoranthene	0.221	0.020	"	0.200	0.005	108	70-130	0.337	20	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G0140 - EPA 3580

Matrix Spike Dup (B4G0140-MSD1)		Source: Y407028-01			Prepared: 07/01/2024 Analyzed: 07/02/2024					
Fluorene	0.227	0.020	mg/kg	0.200	ND	114	70-130	5.00	20	
Indeno (1,2,3-cd) pyrene	0.217	0.020	"	0.200	0.003	107	70-130	2.75	20	
Naphthalene	0.218	0.002	"	0.200	ND	109	70-130	5.55	20	
Phenanthrene	0.201	0.020	"	0.200	ND	101	70-130	3.34	20	
Pyrene	0.192	0.020	"	0.200	0.004	94.2	70-130	1.15	20	
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	180		"	200		91.9	60-130			
Surrogate: Pyrene-d10	180		"	200		88.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.5	60-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G0210 - Saturated Paste Metals

Blank (B4G0210-BLK1)

Prepared: 07/02/2024 Analyzed: 07/11/2024

SAR	ND	0.0100	SAR							Ua
Calcium PPM	ND	10.0	mg/L							Ua
Magnesium PPM	ND	10.0	"							Ua
Sodium PPM	ND	10.0	"							Ua

Duplicate (B4G0210-DUP1)

Source: Y407037-02

Prepared: 07/02/2024 Analyzed: 07/11/2024

SAR	ND	0.0100	SAR	0.250				200		Ua
Calcium PPM	3.96	10.0	mg/L	3.85				2.82	50	Ua
Magnesium PPM	0.540	10.0	"	0.590				8.85	50	Ua
Sodium PPM	1.56	10.0	"	1.99				24.2	50	Ua

Batch B4G0211 - Saturated Paste Metals

Blank (B4G0211-BLK1)

Prepared: 07/02/2024 Analyzed: 07/03/2024

Calcium PPM	ND	10.0	mg/L							Ua
SAR	ND	0.0100	SAR							Ua
Magnesium PPM	ND	10.0	mg/L							Ua
Sodium PPM	ND	10.0	"							Ua

Duplicate (B4G0211-DUP1)

Source: Y406745-01

Prepared: 07/02/2024 Analyzed: 07/03/2024

Calcium PPM	503	10.0	mg/L	514				2.18	50	
SAR	ND	0.0100	SAR	2.61					200	Ua
Magnesium PPM	91.1	10.0	mg/L	92.3				1.28	50	
Sodium PPM	255	10.0	"	245				3.96	50	

Batch B4G0215 - DTPA Sorbitol Preparation

Blank (B4G0215-BLK1)

Prepared: 07/02/2024 Analyzed: 07/03/2024

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

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 B4G0215 - DTPA Sorbitol Preparation										
Blank (B4G0215-BLK1)					Prepared: 07/02/2024 Analyzed: 07/03/2024					
Boron	ND	0.100	mg/L							Ua
Duplicate (B4G0215-DUP1)					Source: Y406822-01 Prepared: 07/02/2024 Analyzed: 07/03/2024					
Boron	0.383	0.998	mg/L		0.415			7.88	50	Ua

Origins Laboratory, Inc.



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Tasman Geosciences
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Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G0221 - Saturated Paste pH/EC

Blank (B4G0221-BLK1)

Prepared: 07/02/2024 Analyzed: 07/03/2024

Specific Conductance (EC)	ND	0.00500	mmhos/cm							Ua
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Duplicate (B4G0221-DUP1)

Source: Y407037-02

Prepared: 07/02/2024 Analyzed: 07/05/2024

Specific Conductance (EC)	0.0939	0.00500	mmhos/cm		0.0744			23.2	25	
pH	7.26		pH Units		7.30			0.549	25	

Batch B4G0222 - Saturated Paste pH/EC

Blank (B4G0222-BLK1)

Prepared: 07/02/2024 Analyzed: 07/05/2024

Specific Conductance (EC)	ND	0.00500	mmhos/cm							Ua
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Duplicate (B4G0222-DUP1)

Source: Y406745-01

Prepared: 07/02/2024 Analyzed: 07/03/2024

pH	8.22		pH Units		8.20			0.244	25	
Specific Conductance (EC)	3.23	0.00500	mmhos/cm		3.43			6.18	25	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

Total Metals 7196A - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2642985 - SW846 3060A										
BLANK (1205793928-BLK)					Prepared: 07/18/2024 Analyzed: 07/26/2024					
Hexavalent Chromium	ND	0.300	mg/kg				-			U
LCS (1205793929-BKS)					Prepared: 07/18/2024 Analyzed: 07/26/2024					
Hexavalent Chromium	3.83	0.381	mg/kg	3.81		100	80-120			
DUP (1205793930 D)					Source: Y407038-01 Prepared: 07/18/2024 Analyzed: 07/26/2024					
Hexavalent Chromium	ND	0.457	mg/kg dry		<0.183		0-50	N/A	50	HU
MS (1205793931 S)					Source: Y407038-01 Prepared: 07/18/2024 Analyzed: 07/26/2024					
Hexavalent Chromium	3.90	0.411	mg/kg dry	4.11	<0.164	93.5	75-125			H
DUP (1205793932 D)					Source: Y407038-02 Prepared: 07/18/2024 Analyzed: 07/26/2024					
Hexavalent Chromium	ND	0.424	mg/kg dry		<0.170		0-50	N/A	50	HU
MS (1205793933 S)					Source: Y407038-02 Prepared: 07/18/2024 Analyzed: 07/26/2024					
Hexavalent Chromium	2.34	0.286	mg/kg dry	2.86	<0.114	81.4	75-125			H
ILCS (1205793934-ILCS)					Prepared: 07/18/2024 Analyzed: 07/26/2024					
Hexavalent Chromium	8.49	0.399	mg/kg	8.02		106	80-120			

Origins Laboratory, Inc.



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Tasman Geosciences
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Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - Carma 14-35

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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

HU Holding time exceeded. Non detect.

HJ Holding time exceeded. Value is estimated.

H Holding time exceeded

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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