



August 15, 2024

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - State 2, 7, 26-16

Project Number - [none]

Attached are your analytical results for KMG - State 2, 7, 26-16 received by Origins Laboratory, Inc. July 15, 2024. This project is associated with Origins project number Y407372-01.

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.

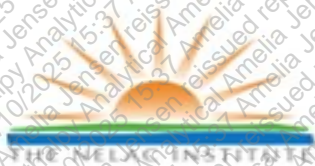
The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

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 - State 2, 7, 26-16

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST1-B01@3"	Y407372-01	Soil	July 15, 2024 8:00	07/15/2024 17:20
AST2-B02@3"	Y407372-02	Soil	July 15, 2024 8:06	07/15/2024 17:20
AST3-B01@3"	Y407372-03	Soil	July 15, 2024 8:08	07/15/2024 17:20
PW-B01@4'	Y407372-04	Soil	July 15, 2024 8:12	07/15/2024 17:20
PW-N01@2'	Y407372-05	Soil	July 15, 2024 8:14	07/15/2024 17:20
SEP1-B01@4'	Y407372-06	Soil	July 15, 2024 8:22	07/15/2024 17:20
SEP1-B02@4'	Y407372-07	Soil	July 15, 2024 8:24	07/15/2024 17:20
BG-01@3"	Y407372-08	Soil	July 15, 2024 8:32	07/15/2024 17:20
BG-02@3"	Y407372-09	Soil	July 15, 2024 8:34	07/15/2024 17:20
BG-03@3"	Y407372-10	Soil	July 15, 2024 8:36	07/15/2024 17:20
BG-04@3"	Y407372-11	Soil	July 15, 2024 8:38	07/15/2024 17:20

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9445

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix	Other	Analysis																		
				HCl	HNO ₃	Other			Groundwater	Soil	Air Summa Canister #	Other	DATE/TIME	DR/ORG	PAH	SAF	EC	pH	Solen	Full Table 913							
AS11-601e3H	7-15-24	8:00	1	X																							
AS13-601c3H																											
AS13-601c3H																											
AS11-601e4H																											
AS11-601e3H																											
AS11-601e3H																											
AS11-601e3H																											
AS11-601e3H																											
AS11-601e3H																											

Telephone Number: 303.433.1322 | Fax: 303.265.9445
 Email Address: amy@originslab.com
 Address: 6855 West 119th Ave, Broomfield, CO 80020
 Client: Amy Sagen
 Project Manager: Andy Sagen
 Project Name: State 2, 7, 26-16
 Project Number: [none]
 Samples Collected By: P. Doves
 Method of Delivery (circle one): Hand-delivered (Packing/Transfer Location Drop Service Center Drop, FedEx, UPS)

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 1407332
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 page 1 of 2

Date Results Needed

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - State 2, 7, 26-16

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9445

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservatives			Matrix	Other	Analysis			Turnaround Time:
				HCl	HNO ₃	Other			Other	Full Table 915	Standard	
B-01031	7-15-24	6:37	2	X			Soil		XX XX		X	10
												4
												4
												5
												7
												8
												9

Client: Andy Sagen
Address: 6855 W 119th Ave
Broomfield, CO 80020
Project Manager: Andy Sagen
Project Name: State 2, 7, 26-16
Project Number: [none]
Samples Collected By: J. Downs
Telephone Number: PM Contact Number (720) 399-5631
Email Address: andy.sagen@originslab.com
Method of Delivery (circle one): Hand Delivered Refrigerated Room Temp Overnight Other

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page 1 of 2

Origins Laboratory, Inc.
Jordan A. Bynon

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

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

Sample Receipt Checklist

Origins Work Order: M07372 Client: Tasman
 Client Project ID: State 2, 7, 26-16
 Checklist Completed by: Jordan A. Bynon Shipped Via: TWO
 Date/time completed: 7/15/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 119 °C / _____ °C / _____ °C (Describe)
 Thermometer ID: 7005

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>SO</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 subtracted 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 in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 7/15/24

Origins Laboratory, Inc.

[Signature]

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 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

AST1-B01@3"
7/15/2024 8:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.150		0.100	mg/L	1	B4G1606	07/16/2024	07/18/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4G1546	07/15/2024	07/15/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl 84.2% 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4G1547	07/15/2024	07/16/2024	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 109% 70-130 " " "

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Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

AST1-B01@3"
7/15/2024 8:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %		70-130			B4G15 47	07/15/2024	07/16/2024	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.65		0.499	meq/L	10	[CALC]	07/16/2024	07/17/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4G1537	07/15/2024	07/16/2024	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

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AST1-B01@3"
7/15/2024 8:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4G1537	07/15/2024	07/16/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	95.8 %		60-130						
Surrogate: Anthracene-d10	91.9 %		60-130						
Surrogate: Pyrene-d10	110 %		60-130						
Surrogate: Benzo (a) pyrene-d12	95.5 %		60-130						

pH in Soil by 9045D

pH	8.36			pH Units	1	B4G1613	07/16/2024	07/17/2024	
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SAR by 20B Saturated Paste

SAR	0.347		0.0100	SAR	1	B4G1609	07/16/2024	07/17/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.247		0.00500	mmhos/cm	1	B4G1613	07/16/2024	07/17/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

AST1-B01@3"
7/15/2024 8:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.78		0.279	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Barium	162		9.63	"	"	"	"	"	"
Cadmium	0.159		0.0963	"	"	"	"	"	"
Copper	16.5		9.63	"	"	"	"	"	"
Lead	9.92		0.963	"	"	"	"	"	"
Nickel	14.0		0.963	"	"	"	"	"	"
Selenium	ND		0.250	"	"	"	"	"	"
Silver	ND		0.0963	"	"	"	"	"	"
Zinc	60.3		35.6	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.100	0.250	mg/kg dry	1	2653034	08/14/2024	08/15/2024	U
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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 - State 2, 7, 26-16

AST2-B02@3"
7/15/2024 8:06:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B4G1606	07/16/2024	07/18/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4G1546	07/15/2024	07/15/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	86.4 %		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4G1547	07/15/2024	07/16/2024	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	108 %		70-130	"	"	"	"	"	
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 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

AST2-B02@3"
7/15/2024 8:06:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	100 %		70-130			B4G15 47	07/15/2024	07/16/2024	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	07/16/2024	07/17/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4G1537	07/15/2024	07/16/2024	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

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 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

AST2-B02@3"
7/15/2024 8:06:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-02 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4G1537	07/15/2024	07/16/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	88.6 %		60-130			"	"	"	
Surrogate: Anthracene-d10	88.4 %		60-130			"	"	"	
Surrogate: Pyrene-d10	115 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.38			pH Units	1	B4G1613	07/16/2024	07/17/2024	
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SAR by 20B Saturated Paste

SAR	0.427		0.0100	SAR	1	B4G1609	07/16/2024	07/17/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.138		0.00500	mmhos/cm	1	B4G1613	07/16/2024	07/17/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

AST2-B02@3"
7/15/2024 8:06:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.83		0.286	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Barium	72.9		9.86	"	"	"	"	"	
Cadmium	ND		0.0986	"	"	"	"	"	
Copper	ND		9.86	"	"	"	"	"	
Lead	5.29		0.986	"	"	"	"	"	
Nickel	7.29		0.986	"	"	"	"	"	
Selenium	ND		0.256	"	"	"	"	"	
Silver	ND		0.0986	"	"	"	"	"	
Zinc	ND		36.5	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.134	0.336	mg/kg dry	1	2653034	08/14/2024	08/15/2024	U
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 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

AST3-B01@3"
7/15/2024 8:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B4G1606	07/16/2024	07/18/2024	
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DRO/ORO by EPA 8015D


Diesel (C10-C28)	ND		25.0	mg/kg	1	B4G1546	07/15/2024	07/15/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	85.6 %		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4G1547	07/15/2024	07/16/2024	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	110 %		70-130	"	"	"	"	"	
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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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

AST3-B01@3"
7/15/2024 8:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %		70-130			B4G15 47	07/15/2024	07/16/2024	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.11		0.499	meq/L	10	[CALC]	07/16/2024	07/17/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.002		0.002	mg/kg	1	B4G1537	07/15/2024	07/16/2024	
2-Methylnaphthalene	0.005		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.



The results in this report apply to the samples analyzed in accordance 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 - State 2, 7, 26-16

AST3-B01@3"
7/15/2024 8:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-03 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4G1537	07/15/2024	07/16/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	93.5 %		60-130			"	"	"	
Surrogate: Anthracene-d10	91.0 %		60-130			"	"	"	
Surrogate: Pyrene-d10	107 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	89.4 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.44			pH Units	1	B4G1613	07/16/2024	07/17/2024	
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SAR by 20B Saturated Paste

SAR	0.126		0.0100	SAR	1	B4G1609	07/16/2024	07/17/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.193		0.00500	mmhos/cm	1	B4G1613	07/16/2024	07/17/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

AST3-B01@3"
7/15/2024 8:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.07		0.266	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Barium	88.8		9.16	"	"	"	"	"	
Cadmium	ND		0.0916	"	"	"	"	"	
Copper	ND		9.16	"	"	"	"	"	
Lead	5.96		0.916	"	"	"	"	"	
Nickel	8.82		0.916	"	"	"	"	"	
Selenium	ND		0.238	"	"	"	"	"	
Silver	ND		0.0916	"	"	"	"	"	
Zinc	35.0		33.9	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.0820	0.205	mg/kg dry	1	2653034	08/14/2024	08/15/2024	U
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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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

PW-B01@4'
7/15/2024 8:12:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0999	mg/L	1	B4G1606	07/16/2024	07/18/2024	
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DRO/ORO by EPA 8015D


Diesel (C10-C28)	ND		25.0	mg/kg	1	B4G1546	07/15/2024	07/15/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	85.3 %		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4G1547	07/15/2024	07/16/2024	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	107 %		70-130	"	"	"	"	"	
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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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

PW-B01@4'

7/15/2024 8:12:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y407372-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %		70-130			B4G15 47	07/15/2024	07/16/2024	
Surrogate: 4-Bromofluorobenzene	106 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.22		0.499	meq/L	10	[CALC]	07/16/2024	07/17/2024	
Magnesium	0.834		0.823	"	"	"	"	"	
Sodium	1.08		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4G1537	07/15/2024	07/16/2024	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.



The results in this report apply to the samples analyzed in accordance 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 - State 2, 7, 26-16

PW-B01@4'

7/15/2024 8:12:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-04 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4G1537	07/15/2024	07/16/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	99.0 %		60-130						
Surrogate: Anthracene-d10	83.0 %		60-130						
Surrogate: Pyrene-d10	113 %		60-130						
Surrogate: Benzo (a) pyrene-d12	102 %		60-130						

pH in Soil by 9045D

pH	8.40			pH Units	1	B4G1613	07/16/2024	07/17/2024	
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SAR by 20B Saturated Paste

SAR	0.871		0.0100	SAR	1	B4G1609	07/16/2024	07/17/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.458		0.00500	mmhos/cm	1	B4G1613	07/16/2024	07/17/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

PW-B01@4'
7/15/2024 8:12:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-04 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.98		0.263	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Barium	65.7		9.07	"	"	"	"	"	
Cadmium	ND		0.0907	"	"	"	"	"	
Copper	ND		9.07	"	"	"	"	"	
Lead	5.77		0.907	"	"	"	"	"	
Nickel	8.12		0.907	"	"	"	"	"	
Selenium	ND		0.236	"	"	"	"	"	
Silver	ND		0.0907	"	"	"	"	"	
Zinc	ND		33.6	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.112	0.280	mg/kg dry	1	2653034	08/14/2024	08/15/2024	U
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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.



Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

PW-N01@2'
7/15/2024 8:14:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B4G1606	07/16/2024	07/18/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4G1546	07/15/2024	07/15/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	89.2 %		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4G1547	07/15/2024	07/16/2024	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	109 %		70-130	"	"	"	"	"	
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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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

PW-N01@2'

7/15/2024 8:14:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y407372-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	100 %		70-130			B4G15 47	07/15/2024	07/16/2024	
Surrogate: 4-Bromofluorobenzene	106 %		70-130			"	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.924		0.499	meq/L	10	[CALC]	07/16/2024	07/17/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4G1537	07/15/2024	07/16/2024	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.



The results in this report apply to the samples analyzed in accordance 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 - State 2, 7, 26-16

PW-N01@2'

7/15/2024 8:14:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-05 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4G1537	07/15/2024	07/16/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	92.5%		60-130						
Surrogate: Anthracene-d10	87.1%		60-130						
Surrogate: Pyrene-d10	115%		60-130						
Surrogate: Benzo (a) pyrene-d12	98.8%		60-130						

pH in Soil by 9045D

pH	8.40			pH Units	1	B4G1614	07/16/2024	07/17/2024	
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SAR by 20B Saturated Paste

SAR	0.134		0.0100	SAR	1	B4G1610	07/16/2024	07/17/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.162		0.00500	mmhos/cm	1	B4G1614	07/16/2024	07/17/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

PW-N01@2'
7/15/2024 8:14:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-05 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.68		0.282	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Barium	132		9.71	"	"	"	"	"	"
Cadmium	0.158		0.0971	"	"	"	"	"	"
Copper	13.5		9.71	"	"	"	"	"	"
Lead	10.1		0.971	"	"	"	"	"	"
Nickel	14.0		0.971	"	"	"	"	"	"
Selenium	ND		0.253	"	"	"	"	"	"
Silver	ND		0.0971	"	"	"	"	"	"
Zinc	47.0		35.9	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.129	0.322	mg/kg dry	1	2653034	08/14/2024	08/15/2024	U
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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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

SEP1-B01@4'
7/15/2024 8:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.288		0.100	mg/L	1	B4G1606	07/16/2024	07/18/2024	
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DRO/ORO by EPA 8015D


Diesel (C10-C28)	ND		25.0	mg/kg	1	B4G1546	07/15/2024	07/15/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	87.3%		50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4G1547	07/15/2024	07/16/2024	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	109%		70-130	"	"	"	"	"	"
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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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

SEP1-B01@4'
 7/15/2024 8:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %		70-130			B4G15 47	07/15/2024	07/16/2024	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.44		0.499	meq/L	10	[CALC]	07/16/2024	07/17/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4G1537	07/15/2024	07/16/2024	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.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

SEP1-B01@4'
7/15/2024 8:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-06 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4G1537	07/15/2024	07/16/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	87.5 %		60-130			"	"	"	
Surrogate: Anthracene-d10	89.4 %		60-130			"	"	"	
Surrogate: Pyrene-d10	98.7 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.59			pH Units	1	B4G1614	07/16/2024	07/17/2024	
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SAR by 20B Saturated Paste

SAR	0.106		0.0100	SAR	1	B4G1610	07/16/2024	07/17/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.240		0.00500	mmhos/cm	1	B4G1614	07/16/2024	07/17/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

SEP1-B01@4'
7/15/2024 8:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-06 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.58		0.270	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Barium	93.7		9.31	"	"	"	"	"	"
Cadmium	0.112		0.0931	"	"	"	"	"	"
Copper	9.66		9.31	"	"	"	"	"	"
Lead	6.96		0.931	"	"	"	"	"	"
Nickel	9.90		0.931	"	"	"	"	"	"
Selenium	ND		0.242	"	"	"	"	"	"
Silver	ND		0.0931	"	"	"	"	"	"
Zinc	34.8		34.5	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.146	0.364	mg/kg dry	1	2653034	08/14/2024	08/15/2024	U
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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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

SEP1-B02@4'
7/15/2024 8:24:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.236		0.0986	mg/L	1	B4G1606	07/16/2024	07/18/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4G1546	07/15/2024	07/15/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl 82.9% 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4G1547	07/15/2024	07/16/2024	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 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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

SEP1-B02@4'
7/15/2024 8:24:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-07 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %		70-130			B4G15 47	07/15/2024	07/16/2024	
Surrogate: 4-Bromofluorobenzene	106 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.66		0.499	meq/L	10	[CALC]	07/16/2024	07/17/2024	
Magnesium	0.860		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4G1537	07/15/2024	07/16/2024	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.



The results in this report apply to the samples analyzed in accordance 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 - State 2, 7, 26-16

SEP1-B02@4'
7/15/2024 8:24:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-07 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4G1537	07/15/2024	07/16/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	93.5 %		60-130						
Surrogate: Anthracene-d10	87.9 %		60-130						
Surrogate: Pyrene-d10	106 %		60-130						
Surrogate: Benzo (a) pyrene-d12	100 %		60-130						

pH in Soil by 9045D

pH	8.63			pH Units	1	B4G1614	07/16/2024	07/17/2024	
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SAR by 20B Saturated Paste

SAR	0.221		0.0100	SAR	1	B4G1610	07/16/2024	07/17/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.288		0.00500	mmhos/cm	1	B4G1614	07/16/2024	07/17/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

SEP1-B02@4'
7/15/2024 8:24:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-07 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.22		0.273	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Barium	111		9.40	"	"	"	"	"	"
Cadmium	0.149		0.0940	"	"	"	"	"	"
Copper	11.5		9.40	"	"	"	"	"	"
Lead	9.55		0.940	"	"	"	"	"	"
Nickel	11.4		0.940	"	"	"	"	"	"
Selenium	ND		0.244	"	"	"	"	"	"
Silver	ND		0.0940	"	"	"	"	"	"
Zinc	40.9		34.8	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.140	0.349	mg/kg dry	1	2653034	08/14/2024	08/15/2024	U
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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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

BG-01@3"

7/15/2024 8:32:00AM

Origins Laboratory, Inc.
Y407372-08 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Boron (DTPA Sorbitol)

Boron	0.888		0.100	mg/L	1	B4G1606	07/16/2024	07/18/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	2.01		0.499	meq/L	10	[CALC]	07/16/2024	07/17/2024	
Magnesium	1.21		0.823	"	"	"	"	"	
Sodium	1.05		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.64			pH Units	1	B4G1614	07/16/2024	07/17/2024	
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SAR by 20B Saturated Paste

SAR	0.828		0.0100	SAR	1	B4G1610	07/16/2024	07/17/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.444		0.00500	mmhos/cm	1	B4G1614	07/16/2024	07/17/2024	
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Table 915 metals by EPA 6020B

Arsenic	7.22		0.255	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Barium	252		8.78	"	"	"	"	"	
Cadmium	0.285		0.0878	"	"	"	"	"	
Copper	18.3		8.78	"	"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance 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 - State 2, 7, 26-16

BG-01@3"
7/15/2024 8:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-08 (Soil)

Table 915 metals by EPA 6020B

Lead	15.8		0.878	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Nickel	19.9		0.878	"	"	"	"	"	"
Selenium	0.306		0.228	"	"	"	"	"	"
Silver	ND		0.0878	"	"	"	"	"	"
Zinc	68.9		32.5	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.121	0.304	mg/kg dry	1	2653034	08/14/2024	08/15/2024	U
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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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

BG-02@3"

7/15/2024 8:34:00AM

Origins Laboratory, Inc.
Y407372-09 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Boron (DTPA Sorbitol)

Boron	0.992		0.0996	mg/L	1	B4G1606	07/16/2024	07/18/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	5.55		0.499	meq/L	10	[CALC]	07/16/2024	07/17/2024	
Magnesium	1.77		0.823	"	"	"	"	"	
Sodium	2.04		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.48			pH Units	1	B4G1614	07/16/2024	07/17/2024	
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SAR by 20B Saturated Paste

SAR	1.07		0.0100	SAR	1	B4G1610	07/16/2024	07/17/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.14		0.00500	mmhos/cm	1	B4G1614	07/16/2024	07/17/2024	
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Table 915 metals by EPA 6020B

Arsenic	6.22		0.271	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Barium	175		9.34	"	"	"	"	"	
Cadmium	0.298		0.0934	"	"	"	"	"	
Copper	17.7		9.34	"	"	"	"	"	

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

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

BG-02@3"

7/15/2024 8:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-09 (Soil)

Table 915 metals by EPA 6020B

Lead	17.7		0.934	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Nickel	17.7		0.934	"	"	"	"	"	"
Selenium	0.361		0.243	"	"	"	"	"	"
Silver	ND		0.0934	"	"	"	"	"	"
Zinc	64.8		34.5	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.133	0.333	mg/kg dry	1	2653034	08/14/2024	08/15/2024	U
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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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

BG-03@3"

7/15/2024 8:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-10 (Soil)

Boron (DTPA Sorbitol)

Boron	1.07	0.0985	mg/L	1	B4G1606	07/16/2024	07/18/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.21	0.499	meq/L	10	[CALC]	07/16/2024	07/17/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	2.09	0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.57		pH Units	1	B4G1614	07/16/2024	07/17/2024	
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SAR by 20B Saturated Paste

SAR	2.25	0.0100	SAR	1	B4G1610	07/16/2024	07/17/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.390	0.00500	mmhos/cm	1	B4G1614	07/16/2024	07/17/2024	
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Table 915 metals by EPA 6020B

Arsenic	7.38	0.245	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Barium	233	8.43	"	"	"	"	"	
Cadmium	0.310	0.0843	"	"	"	"	"	
Copper	20.8	8.43	"	"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance 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 - State 2, 7, 26-16

BG-03@3"
7/15/2024 8:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-10 (Soil)

Table 915 metals by EPA 6020B

Lead	17.9		0.843	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Nickel	21.5		0.843	"	"	"	"	"	"
Selenium	0.341		0.219	"	"	"	"	"	"
Silver	ND		0.0843	"	"	"	"	"	"
Zinc	76.1		31.2	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.146	0.364	mg/kg dry	1	2653034	08/14/2024	08/15/2024	U
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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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

BG-04@3"

7/15/2024 8:38:00AM

Origins Laboratory, Inc.
Y407372-11 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Boron (DTPA Sorbitol)

Boron	0.991		0.0984	mg/L	1	B4G1606	07/16/2024	07/18/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	4.49		0.499	meq/L	10	[CALC]	07/16/2024	07/17/2024	
Magnesium	1.92		0.823	"	"	"	"	"	
Sodium	1.88		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.60			pH Units	1	B4G1614	07/16/2024	07/17/2024	
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SAR by 20B Saturated Paste

SAR	1.05		0.0100	SAR	1	B4G1610	07/16/2024	07/17/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.797		0.00500	mmhos/cm	1	B4G1614	07/16/2024	07/17/2024	
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Table 915 metals by EPA 6020B

Arsenic	7.85		0.256	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Barium	233		8.84	"	"	"	"	"	
Cadmium	0.341		0.0884	"	"	"	"	"	
Copper	23.5		8.84	"	"	"	"	"	

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Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

BG-04@3"
7/15/2024 8:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407372-11 (Soil)

Table 915 metals by EPA 6020B

Lead	18.7		0.884	mg/kg	10	B4G1538	07/15/2024	07/16/2024	
Nickel	23.8		0.884	"	"	"	"	"	
Selenium	0.344		0.230	"	"	"	"	"	
Silver	ND		0.0884	"	"	"	"	"	
Zinc	86.5		32.7	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.125	0.314	mg/kg dry	1	2653034	08/14/2024	08/15/2024	U
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Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

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 B4G1546 - EPA 3550B

Prepared: 07/15/2024 Analyzed: 07/15/2024

Blank (B4G1546-BLK1)

Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	21		"	24.9		83.8	50-150			

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Jordan A. Bynon For Jen Pellegrini, Project Manager



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Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

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 B4G1546 - EPA 3550B

LCS (B4G1546-BS1)

Prepared: 07/15/2024 Analyzed: 07/15/2024

Diesel (C10-C28)	907	50.0	mg/kg	1000		90.7	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	58		"	49.8		116	50-150			

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Jordan A. Bynon For Jen Pellegrini, Project Manager



Tasman Geosciences
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Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

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 B4G1546 - EPA 3550B

Matrix Spike (B4G1546-MS1)

Source: Y407372-01

Prepared: 07/15/2024 Analyzed: 07/15/2024

Diesel (C10-C28)	910	50.0	mg/kg	1000	ND	91.0	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130			
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

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 Project Number: [none]
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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G1546 - EPA 3550B

Matrix Spike Dup (B4G1546-MSD1)

Source: Y407372-01

Prepared: 07/15/2024 Analyzed: 07/15/2024

Diesel (C10-C28)	918	50.0	mg/kg	1000	ND	91.8	70-130	0.892	35	
Residual Range Organics (C28-C40)	1080	200	"	1000	ND	108	70-130	5.86	35	
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G1547 - EPA 5030 (soil)

Blank (B4G1547-BLK1)

Prepared: 07/15/2024 Analyzed: 07/15/2024

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	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

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Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G1547 - EPA 5030 (soil)

LCS (B4G1547-BS1)

Prepared: 07/15/2024 Analyzed: 07/15/2024

1,2,4-Trimethylbenzene	0.0979	0.00200	mg/kg	0.100		97.9	70-130			
1,3,5-Trimethylbenzene	0.0973	0.00200	"	0.100		97.3	70-130			
Benzene	0.0972	0.00200	"	0.100		97.2	70-130			
Ethylbenzene	0.0940	0.00200	"	0.100		94.0	70-130			
Naphthalene	0.0943	0.00380	"	0.100		94.3	70-130			
Toluene	0.0922	0.00200	"	0.100		92.2	70-130			
o-Xylene	0.0949	0.00200	"	0.100		94.9	70-130			
m,p-Xylene	0.187	0.00400	"	0.200		93.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.5	70-130			

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Jordan A. Bynon For Jen Pellegrini, Project Manager



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 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G1547 - EPA 5030 (soil)

Matrix Spike (B4G1547-MS1)

Source: Y407372-01

Prepared: 07/15/2024 Analyzed: 07/15/2024

1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100	ND	106	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130			
Benzene	0.104	0.00200	"	0.100	ND	104	70-130			
Ethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130			
Naphthalene	0.110	0.00380	"	0.100	ND	110	70-130			
Toluene	0.0972	0.00200	"	0.100	ND	97.2	70-130			
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130			
m,p-Xylene	0.203	0.00400	"	0.200	ND	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G1547 - EPA 5030 (soil)

Matrix Spike Dup (B4G1547-MSD1)

Source: Y407372-01

Prepared: 07/15/2024 Analyzed: 07/15/2024

1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130	1.31	20	
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130	1.64	20	
Benzene	0.103	0.00200	"	0.100	ND	103	70-130	1.35	20	
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130	1.22	20	
Naphthalene	0.112	0.00380	"	0.100	ND	112	70-130	2.09	20	
Toluene	0.0983	0.00200	"	0.100	ND	98.3	70-130	1.08	20	
o-Xylene	0.103	0.00200	"	0.100	ND	103	70-130	0.795	20	
m,p-Xylene	0.200	0.00400	"	0.200	ND	99.8	70-130	1.91	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

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 B4G1538 - EPA 3050B

Blank (B4G1538-BLK1)

Prepared: 07/15/2024 Analyzed: 07/16/2024

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

LCS (B4G1538-BS1)

Prepared: 07/15/2024 Analyzed: 07/16/2024

Arsenic	4.69	0.290	mg/kg	5.00		93.8	80-120			
Barium	489	10.0	"	500		97.9	80-120			
Cadmium	4.89	0.100	"	5.00		97.8	80-120			
Copper	48.4	10.0	"	50.0		96.7	80-120			
Lead	4.66	1.00	"	5.00		93.2	80-120			
Nickel	4.64	1.00	"	5.00		92.8	80-120			
Selenium	4.64	0.260	"	5.00		92.7	80-120			
Silver	5.06	0.100	"	5.00		101	80-120			
Zinc	47.2	37.0	"	50.0		94.3	80-120			

Matrix Spike (B4G1538-MS1)

Source: Y407364-07

Prepared: 07/15/2024 Analyzed: 07/16/2024

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Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

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 B4G1538 - EPA 3050B

Matrix Spike (B4G1538-MS1)

Source: Y407364-07

Prepared: 07/15/2024 Analyzed: 07/16/2024

Arsenic	6.64	0.280	mg/kg	4.83	1.27	111	75-125			
Barium	557	9.67	"	483	30.2	109	75-125			
Cadmium	5.19	0.0967	"	4.83	0.0304	107	75-125			
Copper	57.4	9.67	"	48.3	2.41	114	75-125			
Lead	8.85	0.967	"	4.83	3.16	118	75-125			
Nickel	8.01	0.967	"	4.83	2.17	121	75-125			
Selenium	4.76	0.251	"	4.83	0.0390	97.6	75-125			
Silver	5.49	0.0967	"	4.83	ND	114	75-125			
Zinc	67.8	35.8	"	48.3	13.4	113	75-125			

Matrix Spike Dup (B4G1538-MSD1)

Source: Y407364-07

Prepared: 07/15/2024 Analyzed: 07/16/2024

Arsenic	7.23	0.284	mg/kg	4.90	1.27	122	75-125	8.38	20	
Barium	588	9.80	"	490	30.2	114	75-125	5.34	20	
Cadmium	5.58	0.0980	"	4.90	0.0304	113	75-125	7.33	20	
Copper	63.3	9.80	"	49.0	2.41	124	75-125	9.75	20	
Lead	9.22	0.980	"	4.90	3.16	124	75-125	4.15	20	
Nickel	9.19	0.980	"	4.90	2.17	143	75-125	13.7	20	QM-07
Selenium	5.10	0.255	"	4.90	ND	104	75-125	6.91	20	
Silver	5.96	0.0980	"	4.90	ND	122	75-125	8.10	20	
Zinc	76.1	36.3	"	49.0	13.4	128	75-125	11.6	20	QM-07

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 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

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 B4G1537 - EPA 3580

Prepared: 07/15/2024 Analyzed: 07/16/2024

Blank (B4G1537-BLK1)

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	190		ug/kg	200		96.5	60-130			
Surrogate: Anthracene-d10	190		"	200		94.8	60-130			
Surrogate: Pyrene-d10	220		"	200		109	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.0	60-130			

LCS (B4G1537-BS1)

Prepared: 07/15/2024 Analyzed: 07/16/2024

1-Methylnaphthalene	0.190	0.002	mg/kg	0.200		94.9	70-130			
2-Methylnaphthalene	0.189	0.002	"	0.200		94.7	70-130			
Acenaphthene	0.192	0.020	"	0.200		96.1	70-130			
Anthracene	0.190	0.020	"	0.200		95.0	70-130			

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Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

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 B4G1537 - EPA 3580

LCS (B4G1537-BS1)

Prepared: 07/15/2024 Analyzed: 07/16/2024

Benzo (a) anthracene	0.173	0.005	mg/kg	0.200		86.5	70-130			
Benzo (a) pyrene	0.189	0.020	"	0.200		94.7	70-130			
Benzo (b) fluoranthene	0.202	0.020	"	0.200		101	70-130			
Benzo (g,h,i) perylene	0.176	0.020	"	0.200		87.8	70-130			
Benzo (k) fluoranthene	0.195	0.020	"	0.200		97.7	70-130			
Chrysene	0.190	0.020	"	0.200		94.8	70-130			
Dibenz (a,h) anthracene	0.189	0.020	"	0.200		94.6	70-130			
Fluoranthene	0.195	0.020	"	0.200		97.3	70-130			
Fluorene	0.203	0.020	"	0.200		102	70-130			
Indeno (1,2,3-cd) pyrene	0.217	0.020	"	0.200		109	70-130			
Naphthalene	0.194	0.002	"	0.200		97.1	70-130			
Phenanthrene	0.209	0.020	"	0.200		104	70-130			
Pyrene	0.206	0.020	"	0.200		103	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		97.7	60-130			
Surrogate: Anthracene-d10	180		"	200		91.7	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.0	60-130			

Matrix Spike (B4G1537-MS1)

Source: Y407363-02

Prepared: 07/15/2024 Analyzed: 07/16/2024

1-Methylnaphthalene	0.199	0.002	mg/kg	0.200	0.002	98.6	70-130			
2-Methylnaphthalene	0.200	0.002	"	0.200	0.003	98.6	70-130			
Acenaphthene	0.194	0.020	"	0.200	0.009	92.6	70-130			
Anthracene	0.203	0.020	"	0.200	0.035	84.0	70-130			
Benzo (a) anthracene	0.273	0.005	"	0.200	1.17	NR	70-130			QM-07
Benzo (a) pyrene	0.354	0.020	"	0.200	1.86	NR	70-130			QM-07
Benzo (b) fluoranthene	0.415	0.020	"	0.200	1.03	NR	70-130			QM-07
Benzo (g,h,i) perylene	0.345	0.020	"	0.200	1.51	NR	70-130			QM-07

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

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 B4G1537 - EPA 3580

Matrix Spike (B4G1537-MS1)

Source: Y407363-02

Prepared: 07/15/2024 Analyzed: 07/16/2024

Benzo (k) fluoranthene	0.384	0.020	mg/kg	0.200	0.873	NR	70-130			QM-07
Chrysene	0.306	0.020	"	0.200	1.07	NR	70-130			QM-07
Dibenz (a,h) anthracene	0.235	0.020	"	0.200	0.337	NR	70-130			QM-07
Fluoranthene	0.351	0.020	"	0.200	0.898	NR	70-130			QM-07
Fluorene	0.203	0.020	"	0.200	0.008	97.5	70-130			
Indeno (1,2,3-cd) pyrene	0.358	0.020	"	0.200	1.10	NR	70-130			QM-07
Naphthalene	0.198	0.002	"	0.200	0.002	98.4	70-130			
Phenanthrene	0.228	0.020	"	0.200	0.061	83.4	70-130			
Pyrene	0.545	0.020	"	0.200	1.88	NR	70-130			QM-07
Surrogate: Fluorene-d10	190		ug/kg	200		96.3	60-130			
Surrogate: Anthracene-d10	190		"	200		94.8	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.5	60-130			

Matrix Spike Dup (B4G1537-MSD1)

Source: Y407363-02

Prepared: 07/15/2024 Analyzed: 07/16/2024

1-Methylnaphthalene	0.193	0.002	mg/kg	0.200	0.002	95.5	70-130	3.16	20	
2-Methylnaphthalene	0.196	0.002	"	0.200	0.003	96.3	70-130	2.31	20	
Acenaphthene	0.189	0.020	"	0.200	0.009	89.7	70-130	2.98	20	
Anthracene	0.209	0.020	"	0.200	0.035	87.2	70-130	3.07	20	
Benzo (a) anthracene	0.314	0.005	"	0.200	1.17	NR	70-130	14.1	20	QM-07
Benzo (a) pyrene	0.312	0.020	"	0.200	1.86	NR	70-130	12.6	20	QM-07
Benzo (b) fluoranthene	0.382	0.020	"	0.200	1.03	NR	70-130	8.26	20	QM-07
Benzo (g,h,i) perylene	0.325	0.020	"	0.200	1.51	NR	70-130	6.13	20	QM-07
Benzo (k) fluoranthene	0.349	0.020	"	0.200	0.873	NR	70-130	9.57	20	QM-07
Chrysene	0.329	0.020	"	0.200	1.07	NR	70-130	7.33	20	QM-07
Dibenz (a,h) anthracene	0.221	0.020	"	0.200	0.337	NR	70-130	6.52	20	QM-07
Fluoranthene	0.416	0.020	"	0.200	0.898	NR	70-130	17.0	20	QM-07

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

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 B4G1537 - EPA 3580

Matrix Spike Dup (B4G1537-MSD1)

Source: Y407363-02

Prepared: 07/15/2024 Analyzed: 07/16/2024

Fluorene	0.187	0.020	mg/kg	0.200	0.008	89.6	70-130	8.06	20	
Indeno (1,2,3-cd) pyrene	0.292	0.020	"	0.200	1.10	NR	70-130	20.4	20	QM-07, QR-02
Naphthalene	0.192	0.002	"	0.200	0.002	95.2	70-130	3.26	20	
Phenanthrene	0.236	0.020	"	0.200	0.061	87.6	70-130	3.58	20	
Pyrene	0.468	0.020	"	0.200	1.88	NR	70-130	15.3	20	QM-07
Surrogate: Fluorene-d10	190		ug/kg	200		94.8	60-130			
Surrogate: Anthracene-d10	190		"	200		97.0	60-130			
Surrogate: Pyrene-d10	220		"	200		112	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

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 B4G1606 - DTPA Sorbitol Preparation

Blank (B4G1606-BLK1) Prepared: 07/16/2024 Analyzed: 07/18/2024

Boron ND 0.100 mg/L

Duplicate (B4G1606-DUP1) Source: Y407338-01 Prepared: 07/16/2024 Analyzed: 07/18/2024

Boron 0.427 0.100 mg/L 0.582 30.6 50

Batch B4G1609 - Saturated Paste Metals

Blank (B4G1609-BLK1) Prepared: 07/16/2024 Analyzed: 07/17/2024

Calcium PPM ND 10.0 mg/L

SAR ND 0.0100 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B4G1609-DUP1) Source: Y407362-04 Prepared: 07/16/2024 Analyzed: 07/17/2024

SAR ND 0.0100 SAR 2.11 200

Calcium PPM 19.9 10.0 mg/L 21.3 6.94 50

Magnesium PPM 3.86 10.0 " 3.82 1.04 50

Sodium PPM 38.2 10.0 " 40.3 5.17 50

Batch B4G1610 - Saturated Paste Metals

Blank (B4G1610-BLK1) Prepared: 07/16/2024 Analyzed: 07/17/2024

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

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 B4G1610 - Saturated Paste Metals

Duplicate (B4G1610-DUP1)

Source: Y407333-01

Prepared: 07/16/2024 Analyzed: 07/17/2024

Calcium PPM	282	10.0	mg/L		293		3.76	50		
SAR	ND	0.0100	SAR		2.06			200		
Magnesium PPM	113	10.0	mg/L		117		3.78	50		
Sodium PPM	158	10.0	"		165		4.58	50		

Origins Laboratory, Inc.

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

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 B4G1613 - Saturated Paste pH/EC

Prepared: 07/16/2024 Analyzed: 07/17/2024

Blank (B4G1613-BLK1)

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4G1613-DUP1)

Source: Y407362-04

Prepared: 07/16/2024 Analyzed: 07/17/2024

pH 8.40 pH Units 8.43 0.357 25

Specific Conductance (EC) 0.327 0.00500 mmhos/cm 0.341 4.13 25

Batch B4G1614 - Saturated Paste pH/EC

Prepared: 07/16/2024 Analyzed: 07/17/2024

Blank (B4G1614-BLK1)

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4G1614-DUP1)

Source: Y407333-01

Prepared: 07/16/2024 Analyzed: 07/17/2024

Specific Conductance (EC) 2.24 0.00500 mmhos/cm 2.31 3.27 25

pH 8.10 pH Units 8.03 0.868 25

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - State 2, 7, 26-16

Total Metals 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2653034 - SW846 3060A

Prepared: 08/14/2024 Analyzed: 08/15/2024

BLANK (1205814730-BLK)

Hexavalent Chromium	ND	0.319	mg/kg				-			U
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LCS (1205814731-BKS)

Prepared: 08/14/2024 Analyzed: 08/15/2024

Hexavalent Chromium	3.04	0.307	mg/kg	3.07		99.1	80-120			
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DUP (1205814732 D)

Source: Y407372-01

Prepared: 08/14/2024 Analyzed: 08/15/2024

Hexavalent Chromium	ND	0.251	mg/kg dry		<0.100		0-50	N/A	50	U
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MS (1205814733 S)

Source: Y407372-01

Prepared: 08/14/2024 Analyzed: 08/15/2024

Hexavalent Chromium	0.865	0.251	mg/kg dry	2.51	<0.100	32.9	75-125			
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DUP (1205814734 D)

Source: Y407372-02

Prepared: 08/14/2024 Analyzed: 08/15/2024

Hexavalent Chromium	ND	0.336	mg/kg dry		<0.135		0-50	N/A	50	U
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MS (1205814735 S)

Source: Y407372-02

Prepared: 08/14/2024 Analyzed: 08/15/2024

Hexavalent Chromium	2.75	0.337	mg/kg dry	3.37	<0.135	80	75-125			
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ILCS (1205814736-ILCS)

Prepared: 08/14/2024 Analyzed: 08/15/2024

Hexavalent Chromium	6.40	0.314	mg/kg	6.36		101	80-120			
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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - State 2, 7, 26-16

Notes and Definitions

- Ua Sample is Non-Detect.
 - U Result not detected above the detection limit
 - S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
 - 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.
 - 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 on a wet weight basis.
Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.


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