

March 14, 2024

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - McHale 2-5

Project Number - [none]

Attached are your analytical results for KMG - McHale 2-5 received by Origins Laboratory, Inc. February 22, 2024. This project is associated with Origins project number Y402557-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

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

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@6'	Y402557-01	Soil	February 22, 2024 13:30	02/22/2024 16:50
FL-B01@4'	Y402557-02	Soil	February 22, 2024 14:12	02/22/2024 16:50
BG01@3'	Y402557-03	Soil	February 22, 2024 13:48	02/22/2024 16:50
BG01@6'	Y402557-04	Soil	February 22, 2024 13:50	02/22/2024 16:50
BG02@3'	Y402557-05	Soil	February 22, 2024 13:52	02/22/2024 16:50
BG02@6'	Y402557-06	Soil	February 22, 2024 13:54	02/22/2024 16:50
BG03@3'	Y402557-07	Soil	February 22, 2024 13:56	02/22/2024 16:50
BG03@6'	Y402557-08	Soil	February 22, 2024 13:58	02/22/2024 16:50
BG04@3'	Y402557-09	Soil	February 22, 2024 14:00	02/22/2024 16:50
BG04@6'	Y402557-10	Soil	February 22, 2024 14:02	02/22/2024 16:50
BG05@3'	Y402557-11	Soil	February 22, 2024 14:04	02/22/2024 16:50
BG05@6'	Y402557-12	Soil	February 22, 2024 14:06	02/22/2024 16:50
BG06@3'	Y402557-13	Soil	February 22, 2024 14:08	02/22/2024 16:50
BG06@6'	Y402557-14	Soil	February 22, 2024 14:10	02/22/2024 16:50

Origins Laboratory, Inc.



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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - McHale 2-5

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

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

1402557

Client: Ory/Tasman
 Project Manager: Andy Sagen
 Address: 6855 W. 119th Ave
Broomfield, CO 80020
 Project Name: McHale 2-5
 Telephone Number: 303.433.1322
 Fax Contact Number: 303.265.9645
 Project Number: _____
 Samples Collected By: S. Dasher, P. Davis
 Email Address: Ory/Tasman@originslab.com
 Method of Delivery (Circle One): Hand Delivered (Pickup/Drop-off) (Drop-off) (Drop-off) (Drop-off) (Drop-off)

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis				Turnaround Time: <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard
				HCl	HNO ₃	Other	Groundwater	Soil	Other	Full Table 915	915-1 Metals		
WH-B01026	02-22-14	1330	3	X			X						
FL-B01024		1412	2										
B01021		1348	2					X	X	X			
B01026		1350											
B02023		1352											
B02026		1354											
B03023		1356											
B03026		1358											
B04023		1400											
B04026		1402											
Relinquished By: <u>S. Dasher</u>	Date: <u>02/22/14</u>	Time: <u>1058</u>											
Relinquished By: _____	Date: _____	Time: _____											
Received By: _____	Date: _____	Time: _____											
Received By: _____	Date: _____	Time: _____											

6 Date Results Needed

Origins Laboratory, Inc.

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

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

Sample Receipt Checklist

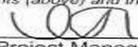
Origins Work Order: 402557 Client: Tasman
 Client Project ID: McHale 2-5

Checklist Completed by: WJH Shipped Via: Hand Delivered
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 2/22/24 Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1, 6 °C / _____ °C / _____ °C (Describe) _____ °C
 Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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


 Reviewed by (Project Manager) 2/22/24
Date/Time Reviewed

Origins Laboratory, Inc.



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 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

WH-B01@6'
2/22/2024 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402557-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.104		0.101	mg/L	1	B4B2310	02/23/2024	02/28/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4B2224	02/22/2024	02/22/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	86.2 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4B2225	02/22/2024	02/23/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.5 %		70-130			"	"	"	
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Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

WH-B01@6'
 2/22/2024 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y402557-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.0 %		70-130			B4B22 25	02/22/2024	02/23/2024	
Surrogate: 4-Bromofluorobenzene	97.6 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	02/23/2024	02/26/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	4.10		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4B2226	02/22/2024	02/23/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

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 Project Number: [none]
 Project: KMG - McHale 2-5

WH-B01@6'
2/22/2024 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402557-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4B2226	02/22/2024	02/23/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.8 %		60-130			"	"	"	
Surrogate: Anthracene-d10	92.5 %		60-130			"	"	"	
Surrogate: Pyrene-d10	94.5 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.98			pH Units	1	B4B2315	02/23/2024	02/24/2024	
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SAR by 20B Saturated Paste

SAR	13.6		0.0100	SAR	1	B4B2306	02/23/2024	02/26/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.396		0.00500	mmhos/cm	1	B4B2315	02/23/2024	02/24/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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 Project Number: [none]
 Project: KMG - McHale 2-5

WH-B01@6'
2/22/2024 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402557-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.26	0.264	mg/kg	10	B4B2236	02/22/2024	02/27/2024
Barium	75.9	9.11	"	"	"	"	"
Cadmium	0.128	0.0911	"	"	"	"	"
Copper	9.50	9.11	"	"	"	"	"
Lead	11.8	0.911	"	"	"	"	"
Nickel	11.1	0.911	"	"	"	"	"
Selenium	0.175	0.0911	"	"	"	"	"
Silver	ND	0.0911	"	"	"	"	"
Zinc	38.6	33.7	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737343	02/22/2024	03/08/2024
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Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

FL-B01@4'

2/22/2024 2:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402557-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0995	mg/L	1	B4B2310	02/23/2024	02/28/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4B2224	02/22/2024	02/22/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.9 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4B2225	02/22/2024	02/23/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.0 %		70-130			"	"	"	
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 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

FL-B01@4'

2/22/2024 2:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y402557-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	100 %		70-130			B4B22 25	02/22/2024	02/23/2024	
Surrogate: 4-Bromofluorobenzene	98.8 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.25		0.499	meq/L	10	[CALC]	02/23/2024	02/26/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4B2226	02/22/2024	02/23/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

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Andy Sagen
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 Project: KMG - McHale 2-5

FL-B01@4'

2/22/2024 2:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y402557-02 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4B2226	02/22/2024	02/23/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %		60-130			"	"	"	
Surrogate: Anthracene-d10	92.5 %		60-130			"	"	"	
Surrogate: Pyrene-d10	95.1 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

pH in Soil by 9045D

pH	7.63			pH Units	1	B4B2315	02/23/2024	02/24/2024	
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SAR by 20B Saturated Paste

SAR	0.300		0.0100	SAR	1	B4B2306	02/23/2024	02/26/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.262		0.00500	mmhos/cm	1	B4B2315	02/23/2024	02/24/2024	
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Table 915 metals by EPA 6020B

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Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

FL-B01@4'

2/22/2024 2:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y402557-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.09	0.262	mg/kg	10	B4B2236	02/22/2024	02/27/2024
Barium	72.7	9.05	"	"	"	"	"
Cadmium	0.166	0.0905	"	"	"	"	"
Copper	ND	9.05	"	"	"	"	"
Lead	35.6	0.905	"	"	"	"	"
Nickel	9.34	0.905	"	"	"	"	"
Selenium	0.177	0.0905	"	"	"	"	"
Silver	ND	0.0905	"	"	"	"	"
Zinc	39.6	33.5	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.502	mg/Kg	1	L737343	02/22/2024	03/08/2024
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 6855 West 119th Avenue
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Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

BG01@3'
2/22/2024 1:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402557-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B4B2310	02/23/2024	02/28/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	02/23/2024	02/26/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.42			pH Units	1	B4B2315	02/23/2024	02/24/2024	
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SAR by 20B Saturated Paste

SAR	0.385		0.0100	SAR	1	B4B2306	02/23/2024	02/26/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0625		0.00500	mmhos/cm	1	B4B2315	02/23/2024	02/24/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.40		0.265	mg/kg	10	B4B2236	02/22/2024	02/27/2024	
Barium	59.4		9.14	"	"	"	"	"	
Cadmium	ND		0.0914	"	"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance 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 - McHale 2-5

BG01@3'
2/22/2024 1:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402557-03 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.14	mg/kg	10	B4B2236	02/22/2024	02/27/2024	
Lead	6.41		0.914	"	"	"	"	"	
Nickel	9.53		0.914	"	"	"	"	"	
Selenium	ND		0.0914	"	"	"	"	"	
Silver	ND		0.0914	"	"	"	"	"	
Zinc	ND		33.8	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737343	02/22/2024	03/08/2024	
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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 - McHale 2-5

BG01@6'
2/22/2024 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402557-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.156		0.0999	mg/L	1	B4B2310	02/23/2024	02/28/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	02/23/2024	02/26/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.17		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.88			pH Units	1	B4B2315	02/23/2024	02/24/2024	
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SAR by 20B Saturated Paste

SAR	2.99		0.0100	SAR	1	B4B2306	02/23/2024	02/26/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.191		0.00500	mmhos/cm	1	B4B2315	02/23/2024	02/24/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.23		0.266	mg/kg	10	B4B2236	02/22/2024	02/27/2024	
Barium	56.7		9.17	"	"	"	"	"	
Cadmium	0.0999		0.0917	"	"	"	"	"	
Copper	ND		9.17	"	"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance 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 - McHale 2-5

BG01@6'
2/22/2024 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402557-04 (Soil)

Table 915 metals by EPA 6020B

Lead	7.20		0.917	mg/kg	10	B4B2236	02/22/2024	02/27/2024	
Nickel	8.82		0.917	"	"	"	"	"	
Selenium	0.114		0.0917	"	"	"	"	"	
Silver	ND		0.0917	"	"	"	"	"	
Zinc	ND		33.9	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737346	02/22/2024	03/08/2024	
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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 - McHale 2-5

BG02@3'
2/22/2024 1:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402557-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0989	mg/L	1	B4B2310	02/23/2024	02/28/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	02/23/2024	02/26/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.68			pH Units	1	B4B2315	02/23/2024	02/24/2024	
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SAR by 20B Saturated Paste

SAR	0.511		0.0100	SAR	1	B4B2306	02/23/2024	02/26/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0718		0.00500	mmhos/cm	1	B4B2315	02/23/2024	02/24/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.16		0.278	mg/kg	10	B4B2236	02/22/2024	02/27/2024	
Barium	57.6		9.58	"	"	"	"	"	
Cadmium	ND		0.0958	"	"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance 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 - McHale 2-5

BG02@3'
2/22/2024 1:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402557-05 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.58	mg/kg	10	B4B2236	02/22/2024	02/27/2024	
Lead	6.17		0.958	"	"	"	"	"	
Nickel	8.84		0.958	"	"	"	"	"	
Selenium	ND		0.0958	"	"	"	"	"	
Silver	ND		0.0958	"	"	"	"	"	
Zinc	ND		35.4	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737346	02/22/2024	03/08/2024	
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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 - McHale 2-5

BG02@6'
2/22/2024 1:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402557-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B4B2310	02/23/2024	02/28/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	0.500		0.499	meq/L	10	[CALC]	02/23/2024	02/26/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.86			pH Units	1	B4B2315	02/23/2024	02/24/2024	
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SAR by 20B Saturated Paste

SAR	0.266		0.0100	SAR	1	B4B2306	02/23/2024	02/26/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.113		0.00500	mmhos/cm	1	B4B2315	02/23/2024	02/24/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.06		0.257	mg/kg	10	B4B2236	02/22/2024	02/27/2024	
Barium	55.2		8.87	"	"	"	"	"	
Cadmium	ND		0.0887	"	"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

BG02@6'
2/22/2024 1:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402557-06 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.87	mg/kg	10	B4B2236	02/22/2024	02/27/2024	
Lead	7.68		0.887	"	"	"	"	"	
Nickel	8.43		0.887	"	"	"	"	"	
Selenium	ND		0.0887	"	"	"	"	"	
Silver	ND		0.0887	"	"	"	"	"	
Zinc	ND		32.8	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.502	mg/Kg	1	L737346	02/22/2024	03/08/2024	
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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 - McHale 2-5

BG03@3'
2/22/2024 1:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402557-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.202		0.100	mg/L	1	B4B2310	02/23/2024	02/28/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	16.2		0.499	meq/L	10	[CALC]	02/23/2024	02/26/2024	
Magnesium	7.91		0.823	"	"	"	"	"	
Sodium	7.86		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.08			pH Units	1	B4B2315	02/23/2024	02/24/2024	
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SAR by 20B Saturated Paste

SAR	2.26		0.0100	SAR	1	B4B2306	02/23/2024	02/26/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.34		0.00500	mmhos/cm	1	B4B2315	02/23/2024	02/24/2024	
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Table 915 metals by EPA 6020B

Arsenic	4.36		0.276	mg/kg	10	B4B2236	02/22/2024	02/27/2024	
Barium	283		9.52	"	"	"	"	"	
Cadmium	0.206		0.0952	"	"	"	"	"	
Copper	10.7		9.52	"	"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

BG03@3'
2/22/2024 1:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402557-07 (Soil)

Table 915 metals by EPA 6020B

Lead	19.7		0.952	mg/kg	10	B4B2236	02/22/2024	02/27/2024	
Nickel	13.0		0.952	"	"	"	"	"	
Selenium	0.188		0.0952	"	"	"	"	"	
Silver	ND		0.0952	"	"	"	"	"	
Zinc	47.9		35.2	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737346	02/22/2024	03/08/2024	
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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 - McHale 2-5

BG03@6'
2/22/2024 1:58:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402557-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.179		0.100	mg/L	1	B4B2310	02/23/2024	02/28/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	0.884		0.499	meq/L	10	[CALC]	02/23/2024	02/26/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.62		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.39			pH Units	1	B4B2315	02/23/2024	02/24/2024	
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SAR by 20B Saturated Paste

SAR	3.29		0.0100	SAR	1	B4B2306	02/23/2024	02/26/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.443		0.00500	mmhos/cm	1	B4B2315	02/23/2024	02/24/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.53		0.280	mg/kg	10	B4B2236	02/22/2024	02/27/2024	
Barium	102		9.65	"	"	"	"	"	
Cadmium	ND		0.0965	"	"	"	"	"	
Copper	ND		9.65	"	"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

BG03@6'
2/22/2024 1:58:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402557-08 (Soil)

Table 915 metals by EPA 6020B

Lead	10.8		0.965	mg/kg	10	B4B2236	02/22/2024	02/27/2024	
Nickel	11.2		0.965	"	"	"	"	"	
Selenium	0.124		0.0965	"	"	"	"	"	
Silver	ND		0.0965	"	"	"	"	"	
Zinc	36.4		35.7	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.504	mg/Kg	1	L737346	02/22/2024	03/08/2024	
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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 - McHale 2-5

BG04@3'
2/22/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402557-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.113		0.0998	mg/L	1	B4B2310	02/23/2024	02/28/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	0.546		0.499	meq/L	10	[CALC]	02/23/2024	02/26/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.88			pH Units	1	B4B2315	02/23/2024	02/24/2024	
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SAR by 20B Saturated Paste

SAR	0.107		0.0100	SAR	1	B4B2306	02/23/2024	02/26/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.134		0.00500	mmhos/cm	1	B4B2315	02/23/2024	02/24/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.13		0.283	mg/kg	10	B4B2236	02/22/2024	02/27/2024	
Barium	68.6		9.74	"	"	"	"	"	
Cadmium	0.100		0.0974	"	"	"	"	"	
Copper	ND		9.74	"	"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance 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 - McHale 2-5

BG04@3'
2/22/2024 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402557-09 (Soil)

Table 915 metals by EPA 6020B

Lead	9.87		0.974	mg/kg	10	B4B2236	02/22/2024	02/27/2024	
Nickel	9.85		0.974	"	"	"	"	"	
Selenium	0.133		0.0974	"	"	"	"	"	
Silver	ND		0.0974	"	"	"	"	"	
Zinc	ND		36.0	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737346	02/22/2024	03/08/2024	
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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 - McHale 2-5

BG04@6'
2/22/2024 2:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402557-10 (Soil)

Boron (DTPA Sorbitol)

Boron	0.293		0.0994	mg/L	1	B4B2310	02/23/2024	02/28/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	0.857		0.499	meq/L	10	[CALC]	02/23/2024	02/26/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.875		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.33			pH Units	1	B4B2315	02/23/2024	02/24/2024	
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SAR by 20B Saturated Paste

SAR	1.11		0.0100	SAR	1	B4B2306	02/23/2024	02/26/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.245		0.00500	mmhos/cm	1	B4B2315	02/23/2024	02/24/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.93		0.284	mg/kg	10	B4B2236	02/22/2024	02/27/2024	
Barium	103		9.78	"	"	"	"	"	
Cadmium	ND		0.0978	"	"	"	"	"	
Copper	10.8		9.78	"	"	"	"	"	

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 - McHale 2-5

BG04@6'
2/22/2024 2:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402557-10 (Soil)

Table 915 metals by EPA 6020B

Lead	9.40		0.978	mg/kg	10	B4B2236	02/22/2024	02/27/2024	
Nickel	12.2		0.978	"	"	"	"	"	
Selenium	ND		0.0978	"	"	"	"	"	
Silver	ND		0.0978	"	"	"	"	"	
Zinc	42.7		36.2	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.503	mg/Kg	1	L737346	02/22/2024	03/08/2024	
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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 - McHale 2-5

BG05@3'
2/22/2024 2:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402557-11 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B4B2310	02/23/2024	02/28/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	0.613		0.499	meq/L	10	[CALC]	02/23/2024	02/26/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.99			pH Units	1	B4B2315	02/23/2024	02/24/2024	
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SAR by 20B Saturated Paste

SAR	0.243		0.0100	SAR	1	B4B2306	02/23/2024	02/26/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.137		0.00500	mmhos/cm	1	B4B2315	02/23/2024	02/24/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.82		0.277	mg/kg	10	B4B2236	02/22/2024	02/27/2024	
Barium	57.3		9.56	"	"	"	"	"	
Cadmium	ND		0.0956	"	"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance 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 - McHale 2-5

BG05@3'
2/22/2024 2:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402557-11 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.56	mg/kg	10	B4B2236	02/22/2024	02/27/2024	
Lead	5.97		0.956	"	"	"	"	"	
Nickel	8.76		0.956	"	"	"	"	"	
Selenium	0.113		0.0956	"	"	"	"	"	
Silver	ND		0.0956	"	"	"	"	"	
Zinc	ND		35.4	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737346	02/22/2024	03/08/2024	
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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 - McHale 2-5

BG05@6'
2/22/2024 2:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402557-12 (Soil)

Boron (DTPA Sorbitol)

Boron	0.121		0.0987	mg/L	1	B4B2310	02/23/2024	02/28/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	0.760		0.499	meq/L	10	[CALC]	02/23/2024	02/26/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.70			pH Units	1	B4B2315	02/23/2024	02/24/2024	
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SAR by 20B Saturated Paste

SAR	0.470		0.0100	SAR	1	B4B2306	02/23/2024	02/26/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.130		0.00500	mmhos/cm	1	B4B2315	02/23/2024	02/24/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.94		0.265	mg/kg	10	B4B2236	02/22/2024	02/27/2024	
Barium	56.5		9.13	"	"	"	"	"	
Cadmium	0.119		0.0913	"	"	"	"	"	
Copper	ND		9.13	"	"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance 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 - McHale 2-5

BG05@6'
2/22/2024 2:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402557-12 (Soil)

Table 915 metals by EPA 6020B

Lead	7.85		0.913	mg/kg	10	B4B2236	02/22/2024	02/27/2024	
Nickel	8.29		0.913	"	"	"	"	"	
Selenium	0.111		0.0913	"	"	"	"	"	
Silver	ND		0.0913	"	"	"	"	"	
Zinc	ND		33.8	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.246	0.506	mg/Kg	1	L737346	02/22/2024	03/08/2024	
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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 - McHale 2-5

BG06@3'
2/22/2024 2:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402557-13 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B4B2310	02/23/2024	02/28/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	02/23/2024	02/26/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.64			pH Units	1	B4B2315	02/23/2024	02/24/2024	
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SAR by 20B Saturated Paste

SAR	0.362		0.0100	SAR	1	B4B2306	02/23/2024	02/26/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0745		0.00500	mmhos/cm	1	B4B2315	02/23/2024	02/24/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.48		0.254	mg/kg	10	B4B2236	02/22/2024	02/27/2024	
Barium	59.7		8.76	"	"	"	"	"	
Cadmium	ND		0.0876	"	"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

BG06@3'
2/22/2024 2:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402557-13 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.76	mg/kg	10	B4B2236	02/22/2024	02/27/2024	
Lead	5.69		0.876	"	"	"	"	"	
Nickel	8.98		0.876	"	"	"	"	"	
Selenium	ND		0.0876	"	"	"	"	"	
Silver	ND		0.0876	"	"	"	"	"	
Zinc	ND		32.4	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737346	02/22/2024	03/08/2024	
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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 - McHale 2-5

BG06@6'
2/22/2024 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402557-14 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0994	mg/L	1	B4B2310	02/23/2024	02/28/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	02/23/2024	02/26/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.60			pH Units	1	B4B2315	02/23/2024	02/24/2024	
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SAR by 20B Saturated Paste

SAR	0.379		0.0100	SAR	1	B4B2306	02/23/2024	02/26/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0823		0.00500	mmhos/cm	1	B4B2315	02/23/2024	02/24/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.04		0.248	mg/kg	10	B4B2237	02/23/2024	02/27/2024	
Barium	58.0		8.56	"	"	"	"	"	
Cadmium	ND		0.0856	"	"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

BG06@6'
2/22/2024 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402557-14 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.56	mg/kg	10	B4B2237	02/23/2024	02/27/2024	
Lead	6.34		0.856	"	"	"	"	"	
Nickel	9.48		0.856	"	"	"	"	"	
Selenium	0.109		0.0856	"	"	"	"	"	
Silver	ND		0.0856	"	"	"	"	"	
Zinc	ND		31.7	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737347	02/22/2024	03/08/2024	
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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 - McHale 2-5

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 B4B2224 - EPA 3550B										
Blank (B4B2224-BLK1)										
					Prepared: 02/22/2024 Analyzed: 02/22/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		93.0	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

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 B4B2224 - EPA 3550B

LCS (B4B2224-BS1)

Prepared: 02/22/2024 Analyzed: 02/22/2024

Diesel (C10-C28)	971	50.0	mg/kg	1000		97.1	70-130			
Residual Range Organics (C28-C40)	1150	200	"	1000		115	70-130			
Surrogate: o-Terphenyl	46		"	49.8		92.8	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

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 B4B2224 - EPA 3550B

Matrix Spike (B4B2224-MS1)	Source: Y402548-01			Prepared: 02/22/2024 Analyzed: 02/22/2024						
Diesel (C10-C28)	970	50.0	mg/kg	1000	ND	97.0	70-130			
Residual Range Organics (C28-C40)	1160	200	"	1000	ND	116	70-130			
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

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 B4B2224 - EPA 3550B

Matrix Spike Dup (B4B2224-MSD1)	Source: Y402548-01			Prepared: 02/22/2024 Analyzed: 02/22/2024						
Diesel (C10-C28)	957	50.0	mg/kg	1000	ND	95.7	70-130	1.42	35	
Residual Range Organics (C28-C40)	1140	200	"	1000	ND	114	70-130	1.70	35	
<i>Surrogate: o-Terphenyl</i>	54		"	49.8		109	50-150			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

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 B4B2225 - EPA 5030 (soil)

Blank (B4B2225-BLK1)

Prepared: 02/22/2024 Analyzed: 02/22/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	95.8		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	100		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.7		70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

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 B4B2225 - EPA 5030 (soil)

LCS (B4B2225-BS1)

Prepared: 02/22/2024 Analyzed: 02/22/2024

1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100		102	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Benzene	0.0996	0.00200	"	0.100		99.6	70-130			
Ethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Naphthalene	0.107	0.00380	"	0.100		107	70-130			
Toluene	0.104	0.00200	"	0.100		104	70-130			
o-Xylene	0.0960	0.00200	"	0.100		96.0	70-130			
m,p-Xylene	0.208	0.00400	"	0.200		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.9	70-130			

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

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 B4B2225 - EPA 5030 (soil)

Matrix Spike (B4B2225-MS1)	Source: Y402548-01			Prepared: 02/22/2024 Analyzed: 02/22/2024						
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130			
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130			
Benzene	0.0930	0.00200	"	0.100	ND	93.0	70-130			
Ethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130			
Naphthalene	0.112	0.00380	"	0.100	ND	112	70-130			
Toluene	0.103	0.00200	"	0.100	ND	103	70-130			
o-Xylene	0.0885	0.00200	"	0.100	ND	88.5	70-130			
m,p-Xylene	0.198	0.00400	"	0.200	ND	99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.5	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

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 B4B2225 - EPA 5030 (soil)

Matrix Spike Dup (B4B2225-MSD1)	Source: Y402548-01			Prepared: 02/22/2024 Analyzed: 02/22/2024						
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130	0.152	20	
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100	ND	110	70-130	0.951	20	
Benzene	0.0925	0.00200	"	0.100	ND	92.5	70-130	0.561	20	
Ethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130	1.15	20	
Naphthalene	0.111	0.00380	"	0.100	ND	111	70-130	0.197	20	
Toluene	0.0999	0.00200	"	0.100	ND	99.9	70-130	2.73	20	
o-Xylene	0.0886	0.00200	"	0.100	ND	88.6	70-130	0.0904	20	
m,p-Xylene	0.199	0.00400	"	0.200	ND	99.7	70-130	0.483	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.1	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

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 B4B2236 - EPA 3050B

Blank (B4B2236-BLK1)

Prepared: 02/22/2024 Analyzed: 02/27/2024

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	0.100	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

LCS (B4B2236-BS1)

Prepared: 02/22/2024 Analyzed: 03/02/2024

Arsenic	5.46	0.290	mg/kg	5.00		109	80-120			
Barium	548	10.0	"	500		110	80-120			
Cadmium	5.82	0.100	"	5.00		116	80-120			
Copper	58.4	10.0	"	50.0		117	80-120			
Lead	5.70	1.00	"	5.00		114	80-120			
Nickel	5.72	1.00	"	5.00		114	80-120			
Selenium	5.74	0.260	"	5.00		115	80-120			
Silver	5.76	0.100	"	5.00		115	80-120			
Zinc	58.6	37.0	"	50.0		117	80-120			

Matrix Spike (B4B2236-MS1)

Source: Y402556-06

Prepared: 02/22/2024 Analyzed: 03/02/2024

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

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 B4B2236 - EPA 3050B

Matrix Spike (B4B2236-MS1)		Source: Y402556-06			Prepared: 02/22/2024 Analyzed: 03/02/2024					
Arsenic	11.4	0.282	mg/kg	4.86	14.9	NR	75-125			QM-07
Barium	591	9.72	"	486	98.4	101	75-125			
Cadmium	5.49	0.0972	"	4.86	0.182	109	75-125			
Copper	67.2	9.72	"	48.6	10.6	116	75-125			
Lead	16.3	0.972	"	4.86	9.58	138	75-125			QM-07
Nickel	17.1	0.972	"	4.86	8.86	169	75-125			QM-07
Selenium	5.13	0.253	"	4.86	0.320	98.9	75-125			
Silver	5.37	0.0972	"	4.86	0.0459	109	75-125			
Zinc	88.9	36.0	"	48.6	26.2	129	75-125			QM-07

Matrix Spike Dup (B4B2236-MSD1)		Source: Y402556-06			Prepared: 02/22/2024 Analyzed: 03/02/2024					
Arsenic	7.02	0.271	mg/kg	4.68	14.9	NR	75-125	47.1	20	QM-07
Barium	518	9.35	"	468	98.4	89.7	75-125	13.2	20	
Cadmium	5.10	0.0935	"	4.68	0.182	105	75-125	7.29	20	
Copper	56.3	9.35	"	46.8	10.6	97.7	75-125	17.7	20	
Lead	10.4	0.935	"	4.68	9.58	16.9	75-125	44.5	20	QM-07
Nickel	14.1	0.935	"	4.68	8.86	113	75-125	19.0	20	
Selenium	4.67	0.243	"	4.68	0.320	93.1	75-125	9.22	20	
Silver	5.08	0.0935	"	4.68	0.0459	108	75-125	5.57	20	
Zinc	74.4	34.6	"	46.8	26.2	103	75-125	17.8	20	

Batch B4B2237 - EPA 3050B

Blank (B4B2237-BLK1)		Prepared: 02/23/2024 Analyzed: 02/27/2024								
Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

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 B4B2237 - EPA 3050B

Blank (B4B2237-BLK1)

Prepared: 02/23/2024 Analyzed: 02/27/2024

Copper	ND	10.0	mg/kg							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.100	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

LCS (B4B2237-BS1)

Prepared: 02/23/2024 Analyzed: 03/02/2024

Arsenic	5.35	0.290	mg/kg	5.00		107	80-120			
Barium	502	10.0	"	500		100	80-120			
Cadmium	5.26	0.100	"	5.00		105	80-120			
Copper	51.6	10.0	"	50.0		103	80-120			
Lead	5.27	1.00	"	5.00		105	80-120			
Nickel	5.09	1.00	"	5.00		102	80-120			
Selenium	5.35	0.260	"	5.00		107	80-120			
Silver	5.46	0.100	"	5.00		109	80-120			
Zinc	53.2	37.0	"	50.0		106	80-120			

Matrix Spike (B4B2237-MS1)

Source: Y402557-14

Prepared: 02/23/2024 Analyzed: 02/27/2024

Arsenic	7.83	0.260	mg/kg	4.48	3.04	107	75-125			
Barium	560	8.96	"	448	58.0	112	75-125			
Cadmium	5.20	0.0896	"	4.48	0.0822	114	75-125			
Copper	58.6	8.96	"	44.8	7.75	114	75-125			
Lead	11.1	0.896	"	4.48	6.34	106	75-125			
Nickel	13.1	0.896	"	4.48	9.48	81.5	75-125			
Selenium	5.31	0.0896	"	4.48	0.109	116	75-125			
Silver	4.99	0.0896	"	4.48	0.0454	110	75-125			

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

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
Batch B4B2237 - EPA 3050B										
Matrix Spike (B4B2237-MS1)			Source: Y402557-14			Prepared: 02/23/2024 Analyzed: 02/27/2024				
Zinc	76.9	33.1	mg/kg	44.8	29.3	106	75-125			
Matrix Spike Dup (B4B2237-MSD1)			Source: Y402557-14			Prepared: 02/23/2024 Analyzed: 02/27/2024				
Arsenic	8.20	0.275	mg/kg	4.75	3.04	109	75-125	4.66	20	
Barium	583	9.50	"	475	58.0	110	75-125	4.04	20	
Cadmium	5.45	0.0950	"	4.75	0.0822	113	75-125	4.70	20	
Copper	61.8	9.50	"	47.5	7.75	114	75-125	5.27	20	
Lead	11.0	0.950	"	4.75	6.34	99.0	75-125	0.308	20	
Nickel	14.0	0.950	"	4.75	9.48	95.4	75-125	6.50	20	
Selenium	6.11	0.0950	"	4.75	0.109	126	75-125	13.9	20	QM-07
Silver	5.20	0.0950	"	4.75	0.0454	109	75-125	4.04	20	
Zinc	80.2	35.1	"	47.5	29.3	107	75-125	4.22	20	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

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 B4B2226 - EPA 3580

Blank (B4B2226-BLK1)

Prepared: 02/22/2024 Analyzed: 02/23/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		93.1	60-130			
Surrogate: Pyrene-d10	190		"	200		94.9	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

LCS (B4B2226-BS1)

Prepared: 02/22/2024 Analyzed: 02/23/2024

1-Methylnaphthalene	0.175	0.002	mg/kg	0.200		87.5	70-130			
2-Methylnaphthalene	0.173	0.002	"	0.200		86.6	70-130			
Acenaphthene	0.176	0.020	"	0.200		88.0	70-130			
Anthracene	0.168	0.020	"	0.200		83.8	70-130			

Origins Laboratory, Inc.



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Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

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 B4B2226 - EPA 3580

LCS (B4B2226-BS1)

Prepared: 02/22/2024 Analyzed: 02/23/2024

Benzo (a) anthracene	0.190	0.005	mg/kg	0.200		94.8	70-130			
Benzo (a) pyrene	0.182	0.020	"	0.200		90.9	70-130			
Benzo (b) fluoranthene	0.177	0.020	"	0.200		88.4	70-130			
Benzo (g,h,i) perylene	0.178	0.020	"	0.200		89.0	70-130			
Benzo (k) fluoranthene	0.168	0.020	"	0.200		83.9	70-130			
Chrysene	0.181	0.020	"	0.200		90.7	70-130			
Dibenz (a,h) anthracene	0.180	0.020	"	0.200		90.1	70-130			
Fluoranthene	0.168	0.020	"	0.200		84.0	70-130			
Fluorene	0.179	0.020	"	0.200		89.4	70-130			
Indeno (1,2,3-cd) pyrene	0.182	0.020	"	0.200		90.9	70-130			
Naphthalene	0.180	0.002	"	0.200		89.9	70-130			
Phenanthrene	0.164	0.020	"	0.200		82.0	70-130			
Pyrene	0.163	0.020	"	0.200		81.5	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		93.5	60-130			
Surrogate: Pyrene-d10	190		"	200		94.2	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

Matrix Spike (B4B2226-MS1)

Source: Y402554-01

Prepared: 02/22/2024 Analyzed: 02/23/2024

1-Methylnaphthalene	0.186	0.002	mg/kg	0.200	0.0007	92.8	70-130			
2-Methylnaphthalene	0.184	0.002	"	0.200	0.001	91.4	70-130			
Acenaphthene	0.187	0.020	"	0.200	ND	93.3	70-130			
Anthracene	0.178	0.020	"	0.200	0.0007	88.4	70-130			
Benzo (a) anthracene	0.199	0.005	"	0.200	0.0004	99.2	70-130			
Benzo (a) pyrene	0.190	0.020	"	0.200	ND	95.1	70-130			
Benzo (b) fluoranthene	0.196	0.020	"	0.200	0.002	96.9	70-130			
Benzo (g,h,i) perylene	0.188	0.020	"	0.200	0.001	93.6	70-130			

Origins Laboratory, Inc.



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Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

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 B4B2226 - EPA 3580

Matrix Spike (B4B2226-MS1)	Source: Y402554-01			Prepared: 02/22/2024 Analyzed: 02/23/2024						
Benzo (k) fluoranthene	0.186	0.020	mg/kg	0.200	0.0009	92.4	70-130			
Chrysene	0.197	0.020	"	0.200	0.001	97.8	70-130			
Dibenz (a,h) anthracene	0.189	0.020	"	0.200	ND	94.5	70-130			
Fluoranthene	0.189	0.020	"	0.200	0.0005	94.1	70-130			
Fluorene	0.189	0.020	"	0.200	ND	94.6	70-130			
Indeno (1,2,3-cd) pyrene	0.194	0.020	"	0.200	0.002	95.8	70-130			
Naphthalene	0.192	0.002	"	0.200	ND	96.2	70-130			
Phenanthrene	0.172	0.020	"	0.200	ND	86.2	70-130			
Pyrene	0.168	0.020	"	0.200	0.001	83.3	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		93.7	60-130			
Surrogate: Pyrene-d10	180		"	200		90.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

Matrix Spike Dup (B4B2226-MSD1)	Source: Y402554-01			Prepared: 02/22/2024 Analyzed: 02/23/2024						
1-Methylnaphthalene	0.190	0.002	mg/kg	0.200	0.0007	94.5	70-130	1.89	20	
2-Methylnaphthalene	0.188	0.002	"	0.200	0.001	93.2	70-130	1.96	20	
Acenaphthene	0.191	0.020	"	0.200	ND	95.3	70-130	2.12	20	
Anthracene	0.185	0.020	"	0.200	0.0007	92.3	70-130	4.28	20	
Benzo (a) anthracene	0.201	0.005	"	0.200	0.0004	100	70-130	1.05	20	
Benzo (a) pyrene	0.189	0.020	"	0.200	ND	94.3	70-130	0.828	20	
Benzo (b) fluoranthene	0.195	0.020	"	0.200	0.002	96.5	70-130	0.354	20	
Benzo (g,h,i) perylene	0.198	0.020	"	0.200	0.001	98.3	70-130	4.92	20	
Benzo (k) fluoranthene	0.168	0.020	"	0.200	0.0009	83.5	70-130	10.0	20	
Chrysene	0.195	0.020	"	0.200	0.001	97.0	70-130	0.775	20	
Dibenz (a,h) anthracene	0.199	0.020	"	0.200	ND	99.7	70-130	5.31	20	
Fluoranthene	0.184	0.020	"	0.200	0.0005	91.7	70-130	2.52	20	

Origins Laboratory, Inc.



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 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

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 B4B2226 - EPA 3580

Matrix Spike Dup (B4B2226-MSD1)	Source: Y402554-01			Prepared: 02/22/2024 Analyzed: 02/23/2024						
Fluorene	0.194	0.020	mg/kg	0.200	ND	96.8	70-130	2.34	20	
Indeno (1,2,3-cd) pyrene	0.205	0.020	"	0.200	0.002	101	70-130	5.70	20	
Naphthalene	0.195	0.002	"	0.200	ND	97.6	70-130	1.47	20	
Phenanthrene	0.182	0.020	"	0.200	ND	90.8	70-130	5.20	20	
Pyrene	0.178	0.020	"	0.200	0.001	88.4	70-130	5.96	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.7	60-130			
Surrogate: Anthracene-d10	190		"	200		94.1	60-130			
Surrogate: Pyrene-d10	190		"	200		94.1	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

Origins Laboratory, Inc.



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 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

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 B4B2306 - Saturated Paste Metals

Blank (B4B2306-BLK1)

Prepared: 02/23/2024 Analyzed: 02/26/2024

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

Duplicate (B4B2306-DUP1)

Source: Y402556-12

Prepared: 02/23/2024 Analyzed: 02/26/2024

SAR	ND	0.0100	SAR		1.38				200	
Calcium PPM	15.2	10.0	mg/L		14.5			4.64	50	
Magnesium PPM	3.30	10.0	"		3.10			6.25	50	
Sodium PPM	26.1	10.0	"		22.2			16.3	50	

Batch B4B2310 - DTPA Sorbitol Preparation

Blank (B4B2310-BLK1)

Prepared: 02/23/2024 Analyzed: 02/28/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4B2310-DUP1)

Source: Y402556-12

Prepared: 02/23/2024 Analyzed: 02/28/2024

Boron	0.0428	0.100	mg/L		0.0271			44.8	50	
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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 - McHale 2-5

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 B4B2315 - Saturated Paste pH/EC

Blank (B4B2315-BLK1)

Prepared: 02/23/2024 Analyzed: 02/24/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4B2315-DUP1)

Source: Y402556-12

Prepared: 02/23/2024 Analyzed: 02/24/2024

pH	8.27		pH Units	8.29			0.242	25	
Specific Conductance (EC)	0.253	0.00500	mmhos/cm	0.246			2.72	25	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L737346 -										
DUP (L 98229-DUP)			Source: Y402557-10		Prepared: Analyzed: 03/08/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0.5	20	
MS (L 98229-MS)			Source: Y402557-10		Prepared: Analyzed: 03/08/2024					
Chromium, Hexavalent	32.3	2.5	mg/Kg	40	< 0.245	81	75-125			
LCS (LCS)					Prepared: Analyzed: 03/08/2024					
Chromium, Hexavalent	6.11	0.5	mg/Kg	8		76	75-125			
LRB (LRB)					Prepared: Analyzed: 03/08/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance 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 - McHale 2-5

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L737347 -										
DUP (L 98244-DUP)		Source: 98244			Prepared: Analyzed: 03/08/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 98244-MS)		Source: 98244			Prepared: Analyzed: 03/08/2024					
Chromium, Hexavalent	30.9	2.5	mg/Kg	38.7	< 0.244	80	75-125			
LCS (LCS)		Prepared: Analyzed: 03/08/2024								
Chromium, Hexavalent	6.03	0.5	mg/Kg	8		75	75-125			
LRB (LRB)		Prepared: Analyzed: 03/08/2024								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance 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 - McHale 2-5

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L737343 -										
DUP (L 98157-DUP)		Source: 98157			Prepared: Analyzed: 03/08/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 98157-MS)		Source: 98157			Prepared: Analyzed: 03/08/2024					
Chromium, Hexavalent	30.1	2.5	mg/Kg	39.8	< 0.244	76	75-125			
LCS (LCS)		Prepared: Analyzed: 03/08/2024								
Chromium, Hexavalent	6.11	0.5	mg/Kg	8		76	75-125			
LRB (LRB)		Prepared: Analyzed: 03/08/2024								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance 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 - McHale 2-5

Notes and Definitions

U Sample is Non-Detect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported 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.



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

April 01, 2024

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - McHale 2-5

Project Number - [none]

Attached are your analytical results for KMG - McHale 2-5 received by Origins Laboratory, Inc. March 18, 2024. This project is associated with Origins project number Y403451-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

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

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - McHale 2-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01R@6'	Y403451-01	Soil	March 18, 2024 11:00	03/18/2024 15:20
FL-B01R@4'	Y403451-02	Soil	March 18, 2024 11:02	03/18/2024 15:20

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

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

Sample Receipt Checklist

Origins Work Order: 4403451 Client: Tasman
 Client Project ID: McHale 2-5
 Checklist Completed by: EHSTWJH Shipped Via: HO
 Date/time completed: 3/18/12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1135 °C 1 °C 1 °C (Describe) _____ °C
 Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?				
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

[Signature] 3/18/12
 Reviewed by (Project Manager) Date/Time Reviewed

Origins Laboratory, Inc.


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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

WH-B01R@6'
3/18/2024 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403451-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	DT	03/19/2024	03/22/2024
Magnesium	ND	0.823	"	"	"	DT	"	"
Sodium	2.56	0.435	"	"	"	DT	"	"

pH in Soil by 9045D

pH	8.78		pH Units	1	B4C1923	EAL	03/19/2024	03/20/2024
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SAR by 20B Saturated Paste

SAR	5.55	0.0100	SAR	1	B4C1916	DT	03/19/2024	03/22/2024
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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 - McHale 2-5

FL-B01R@4'

3/18/2024 11:02:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y403451-02 (Soil)

Table 915 metals by EPA 6020B

Lead	31.8	0.955	mg/kg	10	B4C1822	HJD	03/18/2024	03/27/2024	
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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 - McHale 2-5

**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
Batch B4C1822 - EPA 3050B										
Blank (B4C1822-BLK1)					Prepared: 03/18/2024 Analyzed: 03/27/2024					
Lead	ND	1.00	mg/kg							
LCS (B4C1822-BS1)					Prepared: 03/18/2024 Analyzed: 03/27/2024					
Lead	4.77	1.00	mg/kg	5.00		95.4	80-120			
Matrix Spike (B4C1822-MS1)		Source: Y403448-15			Prepared: 03/18/2024 Analyzed: 03/27/2024					
Lead	6.90	0.975	mg/kg	4.88	2.04	99.7	75-125			
Matrix Spike Dup (B4C1822-MSD1)		Source: Y403448-15			Prepared: 03/18/2024 Analyzed: 03/27/2024					
Lead	5.80	0.873	mg/kg	4.36	2.04	86.1	75-125	17.4	20	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

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 B4C1916 - Saturated Paste Metals

Blank (B4C1916-BLK1)

Prepared: 03/19/2024 Analyzed: 03/22/2024

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

Duplicate (B4C1916-DUP1)

Source: Y403448-01

Prepared: 03/19/2024 Analyzed: 03/22/2024

SAR	ND	0.0100	SAR	0.641					200	
Calcium PPM	23.7	10.0	mg/L	24.1				1.46	50	
Magnesium PPM	4.66	10.0	"	4.71				1.07	50	
Sodium PPM	13.8	10.0	"	13.1				5.26	50	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

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 B4C1923 - Saturated Paste pH/EC

Duplicate (B4C1923-DUP1)		Source: Y403448-01			Prepared: 03/19/2024 Analyzed: 03/20/2024					
pH	7.89		pH Units		8.11			2.75	25	

Origins Laboratory, Inc.



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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - McHale 2-5

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

May 24, 2024

Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

Project Name - KMG - McHale 2-5

Project Number - [none]

Attached are your analytical results for KMG - McHale 2-5 received by Origins Laboratory, Inc. April 29, 2024. This project is associated with Origins project number Y404806-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

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

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG-07@3'	Y404806-01	Soil	April 29, 2024 10:00	04/29/2024 13:38
BG-07@6'	Y404806-02	Soil	April 29, 2024 10:02	04/29/2024 13:38
BG-08@3'	Y404806-03	Soil	April 29, 2024 10:04	04/29/2024 13:38
BG-08@6'	Y404806-04	Soil	April 29, 2024 10:06	04/29/2024 13:38
BG-09@3'	Y404806-05	Soil	April 29, 2024 10:08	04/29/2024 13:38
BG-09@6'	Y404806-06	Soil	April 29, 2024 10:10	04/29/2024 13:38
BG-10@3'	Y404806-07	Soil	April 29, 2024 10:12	04/29/2024 13:38
BG-10@6'	Y404806-08	Soil	April 29, 2024 10:14	04/29/2024 13:38
BG-11@3'	Y404806-09	Soil	April 29, 2024 10:16	04/29/2024 13:38
BG-11@6'	Y404806-10	Soil	April 29, 2024 10:18	04/29/2024 13:38

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

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

Sample Receipt Checklist

Origins Work Order: 44048002 Client: Tasman
 Client Project ID: MCAU 2-5

Checklist Completed by: WJ/SA Shipped Via: TD
 Date/time completed: 4/29/12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

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

Cooler Number/Temperature: 1, 10.8 °C _____ °C _____ °C (Describe) _____ °C

Thermometer ID: 1005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		/		SP
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			/	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			/	
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

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

Reviewed by (Project Manager) WJ/SA

Date/Time Reviewed 4/29/12

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

BG-07@3'

4/29/2024 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404806-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.267		0.101	mg/L	1	B4E1007	05/10/2024	05/14/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	0.762		0.499	meq/L	10	[CALC]	05/10/2024	05/13/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.80			pH Units	1	B4D3014	04/30/2024	05/01/2024	
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SAR by 20B Saturated Paste

SAR	0.227		0.0100	SAR	1	B4E1010	05/10/2024	05/13/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.135		0.00500	mmhos/cm	1	B4E1014	05/10/2024	05/11/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.44		0.289	mg/kg	10	B4D2925	04/29/2024	04/30/2024	
Barium	71.0		9.96	"	"	"	"	"	
Cadmium	0.176		0.0996	"	"	"	"	"	
Copper	10.1		9.96	"	"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance 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 - McHale 2-5

BG-07@3'

4/29/2024 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404806-01 (Soil)

Table 915 metals by EPA 6020B

Lead	7.48		0.996	mg/kg	10	B4D2925	04/29/2024	04/30/2024	
Nickel	11.5		0.996	"	"	"	"	"	
Selenium	ND		0.259	"	"	"	"	"	
Silver	ND		0.0996	"	"	"	"	"	
Zinc	37.1		36.9	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.164	0.410	mg/kg dry	1	2615151	05/22/2024	05/23/2024	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 - McHale 2-5

BG-07@6'

4/29/2024 10:02:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404806-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.281		0.0999	mg/L	1	B4E1007	05/10/2024	05/14/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	05/10/2024	05/13/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.800		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.63			pH Units	1	B4D3014	04/30/2024	05/01/2024	
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SAR by 20B Saturated Paste

SAR	3.47		0.0100	SAR	1	B4E1010	05/10/2024	05/13/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.160		0.00500	mmhos/cm	1	B4E1014	05/10/2024	05/11/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.96		0.261	mg/kg	10	B4D2925	04/29/2024	04/30/2024	
Barium	93.1		9.02	"	"	"	"	"	
Cadmium	0.112		0.0902	"	"	"	"	"	
Copper	11.7		9.02	"	"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

BG-07@6'

4/29/2024 10:02:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404806-02 (Soil)

Table 915 metals by EPA 6020B

Lead	10.3		0.902	mg/kg	10	B4D2925	04/29/2024	04/30/2024	
Nickel	12.8		0.902	"	"	"	"	"	
Selenium	ND		0.234	"	"	"	"	"	
Silver	ND		0.0902	"	"	"	"	"	
Zinc	40.0		33.4	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.169	0.423	mg/kg dry	1	2615151	05/22/2024	05/23/2024	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 - McHale 2-5

BG-08@3'

4/29/2024 10:04:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404806-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.173		0.100	mg/L	1	B4E1007	05/10/2024	05/14/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	0.533		0.499	meq/L	10	[CALC]	05/10/2024	05/13/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.500		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.90			pH Units	1	B4D3014	04/30/2024	05/01/2024	
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SAR by 20B Saturated Paste

SAR	0.781		0.0100	SAR	1	B4E1010	05/10/2024	05/13/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0925		0.00500	mmhos/cm	1	B4E1014	05/10/2024	05/11/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.94		0.248	mg/kg	10	B4D2925	04/29/2024	04/30/2024	
Barium	53.3		8.54	"	"	"	"	"	
Cadmium	0.108		0.0854	"	"	"	"	"	
Copper	ND		8.54	"	"	"	"	"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

BG-08@3'

4/29/2024 10:04:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404806-03 (Soil)

Table 915 metals by EPA 6020B

Lead	5.73		0.854	mg/kg	10	B4D2925	04/29/2024	04/30/2024	
Nickel	8.77		0.854	"	"	"	"	"	
Selenium	0.232		0.222	"	"	"	"	"	
Silver	ND		0.0854	"	"	"	"	"	
Zinc	ND		31.6	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.113	0.284	mg/kg dry	1	2615151	05/22/2024	05/23/2024	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 - McHale 2-5

BG-08@6'

4/29/2024 10:06:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404806-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B4E1007	05/10/2024	05/14/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	05/10/2024	05/13/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.52		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.87			pH Units	1	B4D3014	04/30/2024	05/01/2024	
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SAR by 20B Saturated Paste

SAR	5.21		0.0100	SAR	1	B4E1010	05/10/2024	05/13/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.147		0.00500	mmhos/cm	1	B4E1014	05/10/2024	05/11/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.57		0.262	mg/kg	10	B4D2925	04/29/2024	04/30/2024	
Barium	49.3		9.03	"	"	"	"	"	
Cadmium	0.129		0.0903	"	"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance 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 - McHale 2-5

BG-08@6'

4/29/2024 10:06:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404806-04 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.03	mg/kg	10	B4D2925	04/29/2024	04/30/2024	
Lead	5.87		0.903	"	"	"	"	"	
Nickel	8.99		0.903	"	"	"	"	"	
Selenium	ND		0.235	"	"	"	"	"	
Silver	ND		0.0903	"	"	"	"	"	
Zinc	ND		33.4	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.118	0.294	mg/kg dry	1	2615151	05/22/2024	05/23/2024	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 - McHale 2-5

BG-09@3'

4/29/2024 10:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404806-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.200		0.101	mg/L	1	B4E1007	05/10/2024	05/14/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	05/10/2024	05/13/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.80			pH Units	1	B4D3014	04/30/2024	05/01/2024	
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SAR by 20B Saturated Paste

SAR	0.496		0.0100	SAR	1	B4E1010	05/10/2024	05/13/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0876		0.00500	mmhos/cm	1	B4E1014	05/10/2024	05/11/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.66		0.271	mg/kg	10	B4D2925	04/29/2024	04/30/2024	
Barium	58.8		9.35	"	"	"	"	"	
Cadmium	0.110		0.0935	"	"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance 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 - McHale 2-5

BG-09@3'

4/29/2024 10:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404806-05 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.35	mg/kg	10	B4D2925	04/29/2024	04/30/2024	
Lead	6.07		0.935	"	"	"	"	"	
Nickel	10.3		0.935	"	"	"	"	"	
Selenium	ND		0.243	"	"	"	"	"	
Silver	ND		0.0935	"	"	"	"	"	
Zinc	ND		34.6	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.150	0.374	mg/kg dry	1	2615151	05/22/2024	05/23/2024	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 - McHale 2-5

BG-09@6'

4/29/2024 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404806-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.102	mg/L	1	B4E1007	05/10/2024	05/14/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	05/10/2024	05/13/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.647		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.88			pH Units	1	B4D3014	04/30/2024	05/01/2024	
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SAR by 20B Saturated Paste

SAR	1.83		0.0100	SAR	1	B4E1010	05/10/2024	05/13/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.107		0.00500	mmhos/cm	1	B4E1014	05/10/2024	05/11/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.59		0.277	mg/kg	10	B4D2925	04/29/2024	04/30/2024	
Barium	42.7		9.55	"	"	"	"	"	
Cadmium	0.105		0.0955	"	"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

BG-09@6'

4/29/2024 10:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404806-06 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.55	mg/kg	10	B4D2925	04/29/2024	04/30/2024	
Lead	4.87		0.955	"	"	"	"	"	
Nickel	7.62		0.955	"	"	"	"	"	
Selenium	ND		0.248	"	"	"	"	"	
Silver	ND		0.0955	"	"	"	"	"	
Zinc	ND		35.3	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.0891	0.223	mg/kg dry	1	2613404	05/17/2024	05/17/2024	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 - McHale 2-5

BG-10@3'

4/29/2024 10:12:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404806-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.143		0.0997	mg/L	1	B4E1007	05/10/2024	05/14/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	0.645		0.499	meq/L	10	[CALC]	05/10/2024	05/13/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.03			pH Units	1	B4D3014	04/30/2024	05/01/2024	
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SAR by 20B Saturated Paste

SAR	0.527		0.0100	SAR	1	B4E1010	05/10/2024	05/13/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.142		0.00500	mmhos/cm	1	B4E1014	05/10/2024	05/11/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.45		0.244	mg/kg	10	B4D2925	04/29/2024	04/30/2024	
Barium	78.3		8.41	"	"	"	"	"	
Cadmium	0.149		0.0841	"	"	"	"	"	
Copper	8.99		8.41	"	"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance 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 - McHale 2-5

BG-10@3'

4/29/2024 10:12:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404806-07 (Soil)

Table 915 metals by EPA 6020B

Lead	8.03		0.841	mg/kg	10	B4D2925	04/29/2024	04/30/2024	
Nickel	11.2		0.841	"	"	"	"	"	
Selenium	0.230		0.219	"	"	"	"	"	
Silver	ND		0.0841	"	"	"	"	"	
Zinc	32.4		31.1	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.125	0.313	mg/kg dry	1	2615151	05/22/2024	05/23/2024	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 - McHale 2-5

BG-10@6'

4/29/2024 10:14:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404806-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B4E1007	05/10/2024	05/14/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	05/10/2024	05/13/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.62		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.80			pH Units	1	B4D3014	04/30/2024	05/01/2024	
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SAR by 20B Saturated Paste

SAR	3.66		0.0100	SAR	1	B4E1010	05/10/2024	05/13/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.218		0.00500	mmhos/cm	1	B4E1014	05/10/2024	05/11/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.66		0.256	mg/kg	10	B4D2925	04/29/2024	04/30/2024	
Barium	49.4		8.83	"	"	"	"	"	
Cadmium	0.109		0.0883	"	"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance 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 - McHale 2-5

BG-10@6'

4/29/2024 10:14:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404806-08 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.83	mg/kg	10	B4D2925	04/29/2024	04/30/2024	
Lead	4.99		0.883	"	"	"	"	"	
Nickel	8.41		0.883	"	"	"	"	"	
Selenium	ND		0.230	"	"	"	"	"	
Silver	ND		0.0883	"	"	"	"	"	
Zinc	ND		32.7	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.128	0.320	mg/kg dry	1	2615151	05/22/2024	05/23/2024	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 - McHale 2-5

BG-11@3'

4/29/2024 10:16:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404806-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.112		0.0999	mg/L	1	B4E1007	05/10/2024	05/14/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	05/10/2024	05/13/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.70			pH Units	1	B4D3014	04/30/2024	05/01/2024	
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SAR by 20B Saturated Paste

SAR	0.143		0.0100	SAR	1	B4E1010	05/10/2024	05/13/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0811		0.00500	mmhos/cm	1	B4E1014	05/10/2024	05/11/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.23		0.260	mg/kg	10	B4D2925	04/29/2024	04/30/2024	
Barium	51.9		8.96	"	"	"	"	"	
Cadmium	0.134		0.0896	"	"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance 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 - McHale 2-5

BG-11@3'

4/29/2024 10:16:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404806-09 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.96	mg/kg	10	B4D2925	04/29/2024	04/30/2024	
Lead	5.61		0.896	"	"	"	"	"	
Nickel	9.31		0.896	"	"	"	"	"	
Selenium	ND		0.233	"	"	"	"	"	
Silver	ND		0.0896	"	"	"	"	"	
Zinc	ND		33.2	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.140	0.351	mg/kg dry	1	2615151	05/22/2024	05/23/2024	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 - McHale 2-5

BG-11@6'

4/29/2024 10:18:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404806-10 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0988	mg/L	1	B4E1007	05/10/2024	05/14/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	05/10/2024	05/13/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.75			pH Units	1	B4D3014	04/30/2024	05/01/2024	
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SAR by 20B Saturated Paste

SAR	0.318		0.0100	SAR	1	B4E1010	05/10/2024	05/13/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0704		0.00500	mmhos/cm	1	B4E1014	05/10/2024	05/11/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.48		0.279	mg/kg	10	B4D2925	04/29/2024	04/30/2024	
Barium	53.0		9.64	"	"	"	"	"	
Cadmium	0.114		0.0964	"	"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

BG-11@6'

4/29/2024 10:18:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404806-10 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.64	mg/kg	10	B4D2925	04/29/2024	04/30/2024	
Lead	5.61		0.964	"	"	"	"	"	
Nickel	9.18		0.964	"	"	"	"	"	
Selenium	ND		0.251	"	"	"	"	"	
Silver	ND		0.0964	"	"	"	"	"	
Zinc	ND		35.7	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.133	0.333	mg/kg dry	1	2615151	05/22/2024	05/23/2024	U
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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

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 B4D2925 - EPA 3050B

Blank (B4D2925-BLK1)

Prepared: 04/29/2024 Analyzed: 04/30/2024

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 (B4D2925-BS1)

Prepared: 04/29/2024 Analyzed: 04/30/2024

Arsenic	5.02	0.290	mg/kg	5.00		100	80-120			
Barium	511	10.0	"	500		102	80-120			
Cadmium	5.78	0.100	"	5.00		116	80-120			
Copper	55.1	10.0	"	50.0		110	80-120			
Lead	5.35	1.00	"	5.00		107	80-120			
Nickel	5.66	1.00	"	5.00		113	80-120			
Selenium	10.2	0.260	"	9.50		107	80-120			
Silver	5.46	0.100	"	5.00		109	80-120			
Zinc	54.0	37.0	"	50.0		108	80-120			

Matrix Spike (B4D2925-MS1)

Source: Y404803-01

Prepared: 04/29/2024 Analyzed: 04/30/2024

Arsenic	9.93	0.250	mg/kg	4.32	5.56	101	75-125			
Barium	627	8.63	"	432	164	107	75-125			
Cadmium	5.31	0.0863	"	4.32	0.343	115	75-125			
Copper	64.3	8.63	"	43.2	15.9	112	75-125			
Lead	15.9	0.863	"	4.32	12.3	84.5	75-125			

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

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 B4D2925 - EPA 3050B

Matrix Spike (B4D2925-MS1)

Source: Y404803-01

Prepared: 04/29/2024 Analyzed: 04/30/2024

Nickel	21.1	0.863	mg/kg	4.32	17.2	91.9	75-125			
Selenium	9.39	0.224	"	8.20	0.256	111	75-125			
Silver	5.04	0.0863	"	4.32	0.111	114	75-125			
Zinc	106	31.9	"	43.2	58.7	109	75-125			

Matrix Spike Dup (B4D2925-MSD1)

Source: Y404803-01

Prepared: 04/29/2024 Analyzed: 04/30/2024

Arsenic	9.88	0.255	mg/kg	4.40	5.56	98.0	75-125	0.530	20	
Barium	655	8.81	"	440	164	111	75-125	4.35	20	
Cadmium	5.47	0.0881	"	4.40	0.343	117	75-125	3.12	20	
Copper	64.8	8.81	"	44.0	15.9	111	75-125	0.903	20	
Lead	16.4	0.881	"	4.40	12.3	93.5	75-125	2.89	20	
Nickel	21.7	0.881	"	4.40	17.2	103	75-125	2.62	20	
Selenium	9.97	0.229	"	8.37	0.256	116	75-125	6.05	20	
Silver	5.14	0.0881	"	4.40	0.111	114	75-125	2.00	20	
Zinc	106	32.6	"	44.0	58.7	107	75-125	0.00170	20	

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 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

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 B4E1007 - DTPA Sorbitol Preparation

Blank (B4E1007-BLK1)

Prepared: 05/10/2024 Analyzed: 05/14/2024

Boron ND 0.100 mg/L

Duplicate (B4E1007-DUP1)

Source: Y404806-01

Prepared: 05/10/2024 Analyzed: 05/14/2024

Boron 0.263 0.0995 mg/L 0.267 1.58 50

Batch B4E1010 - Saturated Paste Metals

Blank (B4E1010-BLK1)

Prepared: 05/10/2024 Analyzed: 05/13/2024

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B4E1010-DUP1)

Source: Y405300-01

Prepared: 05/10/2024 Analyzed: 05/13/2024

SAR ND 0.0100 SAR 0.219 200

Calcium PPM 32.5 10.0 mg/L 30.5 6.32 50

Magnesium PPM 6.45 10.0 " 6.04 6.57 50

Sodium PPM 5.26 10.0 " 5.06 3.88 50

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Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4D3014 - Saturated Paste pH/EC										
Duplicate (B4D3014-DUP1)		Source: Y404803-01			Prepared: 04/30/2024 Analyzed: 05/01/2024					
pH	8.10		pH Units		8.11			0.123	25	
Batch B4E1014 - Saturated Paste pH/EC										
Blank (B4E1014-BLK1)					Prepared: 05/10/2024 Analyzed: 05/11/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4E1014-DUP1)		Source: Y405300-01			Prepared: 05/10/2024 Analyzed: 05/11/2024					
Specific Conductance (EC)	0.255	0.00500	mmhos/cm		3.12			170	25	QR-DUP

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

Total Metals by 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2613404 - SW846 3060A										
BLANK (1205736281-BLK)					Prepared: 05/17/2024 Analyzed: 05/17/2024					
Hexavalent Chromium	ND	0.343	mg/kg				-			U
LCS (1205736282-BKS)					Prepared: 05/17/2024 Analyzed: 05/17/2024					
Hexavalent Chromium	3.23	0.324	mg/kg	3.24		99.7	80-120			
DUP (1205736283 D)					Source: 667052003 Prepared: 05/17/2024 Analyzed: 05/17/2024					
Hexavalent Chromium	ND	0.396	mg/kg dry		<0.158		0-50	N/A	50	U
MS (1205736284 S)					Source: 667052003 Prepared: 05/17/2024 Analyzed: 05/17/2024					
Hexavalent Chromium	3.90	0.396	mg/kg dry	3.96	<0.158	97	75-125			
ILCS (1205736285-ILCS)					Prepared: 05/17/2024 Analyzed: 05/17/2024					
Hexavalent Chromium	6.92	0.324	mg/kg	6.59		105	80-120			
Batch 2615151 - SW846 3060A										
BLANK (1205740231-BLK)					Prepared: 05/22/2024 Analyzed: 05/23/2024					
Hexavalent Chromium	ND	0.343	mg/kg				-			U
LCS (1205740232-BKS)					Prepared: 05/22/2024 Analyzed: 05/23/2024					
Hexavalent Chromium	2.73	0.280	mg/kg	2.80		97.3	80-120			
DUP (1205740233 D)					Source: 667226001 Prepared: 05/22/2024 Analyzed: 05/23/2024					
Hexavalent Chromium	ND	0.322	mg/kg dry		<0.129		0-50	N/A	50	U
MS (1205740234 S)					Source: 667226001 Prepared: 05/22/2024 Analyzed: 05/23/2024					
Hexavalent Chromium	2.10	0.322	mg/kg dry	3.22	<0.129	64	75-125			

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: [none]
 Project: KMG - McHale 2-5

Total Metals by 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2615151 - SW846 3060A										
DUP (1205740235 D)		Source: 667542001			Prepared: 05/22/2024 Analyzed: 05/23/2024					
Hexavalent Chromium	ND	0.421	mg/kg dry		<0.168		0-50	N/A	50	U
MS (1205740236 S)		Source: 667542001			Prepared: 05/22/2024 Analyzed: 05/23/2024					
Hexavalent Chromium	2.80	0.421	mg/kg dry	4.21	<0.168	66.2	75-125			
ILCS (1205740237-ILCS)		Prepared: 05/22/2024 Analyzed: 05/23/2024								
Hexavalent Chromium	6.00	0.279	mg/kg	5.65		106	80-120			

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: [none]
Project: KMG - McHale 2-5

Notes and Definitions

U Result not detected above the detection limit

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

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.

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