

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

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

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

www.originslaboratory.com

page 1 of 1

440400

ORIGINS
LABORATORY, INC


Client: Oxy/Tasman Project Manager: Andy Sagen
 Address: 6855 West 119th Ave. Project Name: McHale 2-5
 Broomfield, CO 80020

Telephone Number: PM Contract Number (720) 939-3651 Project Number: _____
 Email Address: Oxy/Tasman.distribution@tasman.com Samples Collected By: P. Douvas
 Method of Delivery: (check one): New/Delivered Pickup/Tasman Lock Box Drop Service Center Drop FedEx UPS

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix	Analysis	Please contact PM with any questions. Samples to be analyzed for Table 915 Parameters: VOC (PPE/HHAP) Full TPH, PAH, SRA, LC, PA, Arsenic, Metals - As, Br, Cl, Cr, V, Pb, Hg, Fe, Ag, Zn
				Unpreserved	HCl	HNO ₃	Other			
B6-07E3'	4-29-24	10:00	2	X				X	pb	ALL 99 INORGANICS METALS SRA SRA TO ALL SAMPLES FOR ERCS ANALYSIS ON 5/9/24
B6-07E6'		10:02								
B6-08E3'		10:04								
B6-08E6'		10:06								
B6-08E3'		10:08								
B6-09E6'		10:10								
B6-10E3'		10:12								
B6-10E6'		10:14								
B6-11E3'		10:16								
B6-11E6'		10:18								
Relinquished By:	Date:	Time:	Time:	Received By:	Date:	Time:	Turnaround Time:	Some Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>		
Relinquished By:	Date:	Time:	Time:	Received By:	Date:	Time:	Time:			

Date Results Needed: 10.8

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

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 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: WJH/SA Shipped Via: TLV
 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) WJH

Date/Time Reviewed 4/29/12

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-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	"	"	"	"	"	

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 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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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	"	"	"	"	"	

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 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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 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	"	"	"	"	"	

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 Project Number: [none]
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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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 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	"	"	"	"	"	

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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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 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	"	"	"	"	"	

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 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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 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.



The results in this report apply to the samples analyzed in accordance 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)

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.



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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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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance 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
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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			

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 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	

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

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

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance 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
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.



The results in this report apply to the samples analyzed in accordance 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
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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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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