

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 19, 2024

Jeb Watts

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Las Animas Minerals 1-10

Work Order #2408375

Enclosed are the results of analyses for samples received by Summit Scientific on 08/29/24 09:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Natalie Tessier For Ben Shrewsbury

Laboratory Manager



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Las Animas Minerals 1-10

Project Number: [none]
Project Manager: Jeb Watts

Reported:
09/19/24 08:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HA-5@5'	2408375-01	Soil	08/28/24 11:00	08/29/24 09:15
HA-6@1'	2408375-04	Soil	08/28/24 12:51	08/29/24 09:15
HA-6@2'	2408375-05	Soil	08/28/24 12:52	08/29/24 09:15
HA-6@3'	2408375-06	Soil	08/28/24 12:53	08/29/24 09:15
HA-7@1'	2408375-09	Soil	08/28/24 12:56	08/29/24 09:15
HA-8@1'	2408375-14	Soil	08/28/24 12:00	08/29/24 09:15
HA-8@2'	2408375-15	Soil	08/28/24 12:05	08/29/24 09:15
BG-3@1'	2408375-19	Soil	08/28/24 12:30	08/29/24 09:15
BG-3@3'	2408375-20	Soil	08/28/24 12:40	08/29/24 09:15
BG-3@5'	2408375-21	Soil	08/28/24 12:50	08/29/24 09:15
BG-4@1'	2408375-22	Soil	08/28/24 11:35	08/29/24 09:15
BG-4@3'	2408375-23	Soil	08/28/24 11:45	08/29/24 09:15
BG-4@5'	2408375-24	Soil	08/28/24 11:55	08/29/24 09:15

Case Narrative

Keegan MacDonald requested SAR be added to HA-6@2', HA-8@2', BG-3@1', & BG-3@3' on 9/6/2024.
This report includes those results.

Keegan MacDonald requested SAR be added to HA-6@3' on 9/11/2024.
This report includes those results.

This is a revision of the report originally sent on 9/5/2024 at 10:32 AM MT.

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4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page 1 of 2
2408375.1	

Client: <i>Tasman / FEM</i>		Send Data To:		Send Invoice To:	
Address: <i>6855 W. 119th Ave</i>		Project Manager: <i>Job watts/Brian Humphrey/Afton Evans</i>		Company:	
City/State/Zip: <i>Broomfield, CO 80220</i>		E-Mail: <i>jwatts@tasman-geo.com</i>		Project Name/Location:	
Phone: <i>303-487-1228</i>		<i>bhumphrey@tasman-geo.com, ailiams@foundationenergy.com</i>		AFE#:	
Sampler Name: <i>Keegan M.</i>		Project Name: <i>Las Animas Minerals 1-10</i>		PO/Billing Codes:	
		Project Number:		Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	SAR	Arsenic	
1	HA-5 @ 5'	8/28/24	11:00	2			X			X			X		
2	HA-5 @ 6'		11:10										H		
3	HA-5 @ 7'		11:20												
4	HA-6 @ 1'		12:51									X			
5	HA-6 @ 2'		12:52									H			
6	HA-6 @ 3'		12:53									H			
7	HA-6 @ 4'		12:54									H			
8	HA-6 @ 5'		12:55									H			
9	HA-7 @ 1'		12:56									X			
10	HA-7 @ 2'		12:57									H			
11	HA-7 @ 3'		12:58									H			
12	HA-7 @ 4'		12:59									H			
13	HA-7 @ 5'		13:00									H			
14	HA-8 @ 1'		12:00									X			
15	HA-8 @ 2'	↓	12:05	↓								H			

Relinquished by: <i>Keegan M. [Signature]</i>	Date/Time: <i>8/29/24 9:15</i>	Received by: <i>[Signature]</i>	Date/Time: <i>8/29/24 9:15</i>	TAT Business Days	Field DO	Notes: X = Run H = Hold
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: <i>-0.2</i>	Corrected Temperature	IR gun #: <i>2</i>	HNO3 lot #:			

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4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID 2408375.2 Page 2 of 2

Client: <u>Tasman / FEM</u>		Project Manager: <u>Jeb Watts (Brian Humphrey / Afton Dams)</u>		Company:	
Address: <u>6855 W. 119th Ave</u>		E-Mail: <u>juwatts@tasman-geo.com</u>		Project Name/Location:	
City/State/Zip: <u>Broomfield, CO, 80220</u>		E-Mail: <u>ajiamse@foundationenergy.com, bhumphrey@tasman-geo.com</u>		AFE#:	
Phone: <u>303-487-1228</u>		Project Name: <u>Las Animas Minerals 1-10</u>		PO/Billing Codes:	
Sampler Name: <u>Keegan M.</u>		Project Number:		Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	SAR	Arsenic		
1	HA-8@3'	8/29/24	12:10	2			X			X			II			
2	HA-8@4'		12:15										II			
3	HA-8@5'		12:20										I			
4	BG-3@1'		12:30											X		
5	BG-3@3'		12:40											X		
6	BG-3@5'		12:50											X		
7	BG-4@1'		11:35											X		
8	BG-4@3'		11:45											X		
9	BG-4@5'		11:55											X		
10																
11																
12																
13																
14																
15																

Relinquished by: <u>Keegan M. And</u>	Date/Time: <u>8/29/24 9:15</u>	Received by: <u>J. V. Vel</u>	Date/Time: <u>8/29/24 9:15</u>	TAT Business Days	Field DO	Notes: X = Run H = Hold
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: <u>-0.2</u>	Corrected Temperature	IR gun #: <u>2</u>	HNO3 lot #:	Standard	<input checked="" type="checkbox"/> Field Turb.	

S₂

Sample Receipt Checklist

S2 Work Order# 2408375

Client: FEM Tasmán Client Project ID: Las Animas Minerals 1-10

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) -0.2 Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4 jars for HA-6@3' No jars for HA-8@3'
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

Control Form #: SRC-001

JhVd

8/29/24 9:15

Custodian Printed Name

Date/Time



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Las Animas Minerals 1-10

Project Number: [none]
Project Manager: Jeb Watts

Reported:
09/19/24 08:41

HA-5@5'
2408375-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **08/28/24 11:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.35	0.200	mg/kg dry	1	BHH0974	08/30/24	09/04/24	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/28/24 11:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	95.9		%	1	BHH0970	08/30/24	08/30/24	Calculation	

Summit Scientific

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



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Las Animas Minerals 1-10

Project Number: [none]
Project Manager: Jeb Watts

Reported:
09/19/24 08:41

HA-6@1'
2408375-04 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **08/28/24 12:51**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	207	0.0500	mg/L dry	1	BHI0022	09/03/24	09/05/24	EPA 6020B	
Magnesium	48.3	0.0500	"	"	"	"	"	"	
Sodium	486	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/28/24 12:51**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	7.90	0.00100	units	1	BHI0120	09/05/24	09/05/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/28/24 12:51**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	92.3		%	1	BHH0970	08/30/24	08/30/24	Calculation	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Las Animas Minerals 1-10

Project Number: [none]
Project Manager: Jeb Watts

Reported:
09/19/24 08:41

HA-6@2'
2408375-05 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **08/28/24 12:52**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	492	0.0500	mg/L dry	1	BHI0243	09/09/24	09/10/24	EPA 6020B	
Magnesium	271	0.0500	"	"	"	"	"	"	
Sodium	688	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/28/24 12:52**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	6.18	0.00100	units	1	BHI0331	09/11/24	09/11/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/28/24 12:52**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	94.2		%	1	BHI0179	09/06/24	09/06/24	Calculation	

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Las Animas Minerals 1-10

Project Number: [none]
Project Manager: Jeb Watts

Reported:
09/19/24 08:41

HA-6@3'
2408375-06 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **08/28/24 12:53**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	816	0.0500	mg/L dry	1	BHI0543	09/17/24	09/18/24	EPA 6020B	
Magnesium	172	0.0500	"	"	"	"	"	"	
Sodium	299	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/28/24 12:53**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	2.48	0.00100	units	1	BHI0635	09/19/24	09/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/28/24 12:53**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	84.8		%	1	BHI0410	09/12/24	09/13/24	Calculation	

Summit Scientific

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Project: Las Animas Minerals 1-10

Project Number: [none]
Project Manager: Jeb Watts

Reported:
09/19/24 08:41

HA-7@1'
2408375-09 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **08/28/24 12:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	292	0.0500	mg/L dry	1	BHI0022	09/03/24	09/05/24	EPA 6020B	
Magnesium	39.5	0.0500	"	"	"	"	"	"	
Sodium	93.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/28/24 12:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	1.36	0.00100	units	1	BHI0120	09/05/24	09/05/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/28/24 12:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	86.2		%	1	BHH0970	08/30/24	08/30/24	Calculation	

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Las Animas Minerals 1-10

Project Number: [none]
Project Manager: Jeb Watts

Reported:
09/19/24 08:41

HA-8@1'
2408375-14 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **08/28/24 12:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	61.0	0.0500	mg/L dry	1	BHI0022	09/03/24	09/05/24	EPA 6020B	
Magnesium	66.9	0.0500	"	"	"	"	"	"	
Sodium	542	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/28/24 12:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	11.4	0.00100	units	1	BHI0120	09/05/24	09/05/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/28/24 12:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	87.0		%	1	BHH0970	08/30/24	08/30/24	Calculation	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Las Animas Minerals 1-10

Project Number: [none]
Project Manager: Jeb Watts

Reported:
09/19/24 08:41

HA-8@2'
2408375-15 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **08/28/24 12:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	318	0.0500	mg/L dry	1	BHI0243	09/09/24	09/10/24	EPA 6020B	
Magnesium	248	0.0500	"	"	"	"	"	"	
Sodium	546	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/28/24 12:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	5.58	0.00100	units	1	BHI0331	09/11/24	09/11/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/28/24 12:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	83.0		%	1	BHI0179	09/06/24	09/06/24	Calculation	

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Las Animas Minerals 1-10

Project Number: [none]
Project Manager: Jeb Watts

Reported:
09/19/24 08:41

BG-3@1'
2408375-19 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **08/28/24 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	6.42	0.200	mg/kg dry	1	BHH0974	08/30/24	09/04/24	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **08/28/24 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	40.9	0.0500	mg/L dry	1	BHI0243	09/09/24	09/10/24	EPA 6020B	
Magnesium	7.09	0.0500	"	"	"	"	"	"	
Sodium	2.71	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/28/24 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.103	0.00100	units	1	BHI0331	09/11/24	09/11/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/28/24 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	89.3		%	1	BHH0970	08/30/24	08/30/24	Calculation	

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Las Animas Minerals 1-10

Project Number: [none]
Project Manager: Jeb Watts

Reported:
09/19/24 08:41

BG-3@3'
2408375-20 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **08/28/24 12:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	7.71	0.200	mg/kg dry	1	BHH0974	08/30/24	09/04/24	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **08/28/24 12:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	335	0.0500	mg/L dry	1	BHI0243	09/09/24	09/10/24	EPA 6020B	
Magnesium	410	0.0500	"	"	"	"	"	"	
Sodium	599	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/28/24 12:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	5.19	0.00100	units	1	BHI0331	09/11/24	09/11/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/28/24 12:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	89.5		%	1	BHH0970	08/30/24	08/30/24	Calculation	

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Las Animas Minerals 1-10

Project Number: [none]
Project Manager: Jeb Watts

Reported:
09/19/24 08:41

BG-3@5'
2408375-21 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **08/28/24 12:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	5.24	0.200	mg/kg dry	1	BHH0974	08/30/24	09/04/24	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/28/24 12:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	93.0		%	1	BHH0970	08/30/24	08/30/24	Calculation	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Las Animas Minerals 1-10

Project Number: [none]
Project Manager: Jeb Watts

Reported:
09/19/24 08:41

BG-4@1'
2408375-22 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **08/28/24 11:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	7.29	0.200	mg/kg dry	1	BHH0974	08/30/24	09/04/24	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/28/24 11:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	89.7		%	1	BHH0970	08/30/24	08/30/24	Calculation	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Las Animas Minerals 1-10

Project Number: [none]
Project Manager: Jeb Watts

Reported:
09/19/24 08:41

BG-4@3'
2408375-23 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **08/28/24 11:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	6.88	0.200	mg/kg dry	1	BHH0974	08/30/24	09/04/24	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/28/24 11:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	89.6		%	1	BHH0970	08/30/24	08/30/24	Calculation	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Las Animas Minerals 1-10

Project Number: [none]
Project Manager: Jeb Watts

Reported:
09/19/24 08:41

BG-4@5'
2408375-24 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **08/28/24 11:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	7.50	0.180	mg/kg dry	1	BHH0974	08/30/24	09/04/24	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/28/24 11:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	91.9		%	1	BHH0970	08/30/24	08/30/24	Calculation	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Las Animas Minerals 1-10

Project Number: [none]
Project Manager: Jeb Watts

Reported:
09/19/24 08:41

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BHH0974 - EPA 3050B

Blank (BHH0974-BLK1)				Prepared: 08/30/24 Analyzed: 09/04/24							
Arsenic	ND	0.200	mg/kg wet								
LCS (BHH0974-BS1)				Prepared: 08/30/24 Analyzed: 09/04/24							
Arsenic	35.7	0.200	mg/kg wet	37.0		96.5	80-120				
Duplicate (BHH0974-DUP1)				Source: 2408375-01 Prepared: 08/30/24 Analyzed: 09/04/24							
Arsenic	2.50	0.200	mg/kg dry		3.35			28.9	20		QR-02
Matrix Spike (BHH0974-MS1)				Source: 2408375-01 Prepared: 08/30/24 Analyzed: 09/04/24							
Arsenic	40.4	0.200	mg/kg dry	40.1	3.35	92.5	75-125				
Matrix Spike Dup (BHH0974-MSD1)				Source: 2408375-01 Prepared: 08/30/24 Analyzed: 09/04/24							
Arsenic	40.0	0.200	mg/kg dry	38.1	3.35	96.2	75-125	1.16	25		
Post Spike (BHH0974-PS1)				Source: 2408375-01 Prepared: 08/30/24 Analyzed: 09/04/24							
Arsenic	106		ug/l	100	8.03	98.0	75-125				

Summit Scientific

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Project: Las Animas Minerals 1-10

Project Number: [none]
Project Manager: Jeb Watts

Reported:
09/19/24 08:41

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BHI0022 - General Preparation

Blank (BHI0022-BLK1)

Prepared: 09/03/24 Analyzed: 09/05/24

Calcium	ND	0.0500	mg/L wet						
Magnesium	ND	0.0500	"						
Sodium	ND	0.0500	"						

LCS (BHI0022-BS1)

Prepared: 09/03/24 Analyzed: 09/05/24

Calcium	5.66	0.0500	mg/L wet	5.00	113	70-130
Magnesium	4.86	0.0500	"	5.00	97.2	70-130
Sodium	5.09	0.0500	"	5.00	102	70-130

Batch BHI0243 - General Preparation

Blank (BHI0243-BLK1)

Prepared: 09/09/24 Analyzed: 09/10/24

Calcium	ND	0.0500	mg/L wet			
Magnesium	ND	0.0500	"			
Sodium	ND	0.0500	"			

LCS (BHI0243-BS1)

Prepared: 09/09/24 Analyzed: 09/10/24

Calcium	5.43	0.0500	mg/L wet	5.00	109	70-130
Magnesium	4.86	0.0500	"	5.00	97.2	70-130
Sodium	4.95	0.0500	"	5.00	99.0	70-130

Batch BHI0543 - General Preparation

Blank (BHI0543-BLK1)

Prepared: 09/17/24 Analyzed: 09/18/24

Calcium	ND	0.0500	mg/L wet			
Magnesium	ND	0.0500	"			
Sodium	ND	0.0500	"			

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Las Animas Minerals 1-10

Project Number: [none]
Project Manager: Jeb Watts

Reported:
09/19/24 08:41

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BHI0543 - General Preparation

LCS (BHI0543-BS1)

Prepared: 09/17/24 Analyzed: 09/18/24

Calcium	4.79	0.0500	mg/L wet	5.00		95.8	70-130			
Magnesium	4.90	0.0500	"	5.00		98.1	70-130			
Sodium	4.92	0.0500	"	5.00		98.4	70-130			

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Las Animas Minerals 1-10

Project Number: [none]
Project Manager: Jeb Watts

Reported:
09/19/24 08:41

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

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

Batch BHH0970 - General Preparation

Duplicate (BHH0970-DUP1)		Source: 2408375-01			Prepared & Analyzed: 08/30/24					
% Solids	95.9		%		95.9			0.0164	20	

Batch BHI0179 - General Preparation

Duplicate (BHI0179-DUP2)		Source: 2408375-05			Prepared & Analyzed: 09/06/24					
% Solids	93.9		%		94.2			0.286	20	

Batch BHI0410 - General Preparation

Duplicate (BHI0410-DUP1)		Source: 2408375-06			Prepared: 09/12/24 Analyzed: 09/13/24					
% Solids	85.7		%		84.8			0.975	20	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Las Animas Minerals 1-10

Project Number: [none]
Project Manager: Jeb Watts

Reported:
09/19/24 08:41

Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference