

# Summit Scientific

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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,

A handwritten signature in black ink, appearing to read "Natalie Tessier". The signature is fluid and cursive, with the first name being more prominent.

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.

# SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 2
2408375.1	

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

					Preservative				Matrix				Analysis Requested								Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	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											H								
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: Keegan M. [Signature]	Date/Time: 8/29/24 9:15	Received by: [Signature]	Date/Time: 8/29/24 9:15	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.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	X Field Turb.	
Temperature Upon Receipt: -0.2	Corrected Temperature	IR gun #: 2	HNO3 lot #:			

# SUMMIT SCIENTIFIC

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

Lab ID	Page 2 of 2
2408375.2	

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

					Preservative				Matrix			Analysis Requested								Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	SAR	Arsenic							
1	HA-8 @ 3'	8/29/24	12:10	2			X			X			I								
2	HA-8 @ 4'		12:15										I								
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: <i>Keegan MacAnd</i>	Date/Time: 8/29/24 9:15	Received by: <i>J. V. Vel</i>	Date/Time: 8/29/24 9:15	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.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	X	Field Turb.
Temperature Upon Receipt: -0.2	Corrected Temperature	IR gun #:	2	HNO3 lot #:		

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2408375Client: FEM Tasmán Client Project ID: Las Animas Minerals 1-10Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) -0.2Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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? <sup>(1)</sup>	<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 <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<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)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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):				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

Control Form #: SRC-001

JhVd

Custodian Printed Name

8/29/24 9:15

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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% 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	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
% Solids	92.3		%	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

**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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% 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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>816</b>	0.0500		mg/L dry	1	BHI0543	09/17/24	09/18/24	EPA 6020B	
Magnesium	<b>172</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>299</b>	0.0500		"	"	"	"	"	"	

**Calculated Analysis**

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Sodium Adsorption Ratio	<b>2.48</b>	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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	<b>84.8</b>			%	1	BHI0410	09/12/24	09/13/24	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-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	<b>61.0</b>	0.0500	mg/L dry	1	BHI0022	09/03/24	09/05/24	EPA 6020B	
Magnesium	<b>66.9</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>542</b>	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	<b>11.4</b>	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	<b>87.0</b>		%	1	BHH0970	08/30/24	08/30/24	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

**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	<b>318</b>	0.0500	mg/L dry	1	BHI0243	09/09/24	09/10/24	EPA 6020B	
Magnesium	<b>248</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>546</b>	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	<b>5.58</b>	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	<b>83.0</b>		%	1	BHI0179	09/06/24	09/06/24	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-3@1'**  
**2408375-19 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
% 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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.5		%	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-3@5'**  
**2408375-21 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

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

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

Summit Scientific

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6855 W. 119th Ave.  
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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	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

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

**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	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

**Batch BHH0970 - General Preparation**

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

**Batch BHI0179 - General Preparation**

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

**Batch BHI0410 - General Preparation**

<b>Duplicate (BHI0410-DUP1)</b>		<b>Source: 2408375-06</b>			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