

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 09, 2024

Sam Vogt

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Civitas - Kiyota 3-35

Work Order #2411084

Enclosed are the results of analyses for samples received by Summit Scientific on 11/05/24 18:13. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Natalie Tessier For Paul Shrewsbury
President



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

Project: Civitas - Kiyota 3-35

Project Number: 24410
Project Manager: Sam Vogt

Reported:
12/09/24 07:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-CS01R@4'	2411084-01	Soil	11/05/24 14:45	11/05/24 18:13
WH-B01R@6'	2411084-02	Soil	11/05/24 14:50	11/05/24 18:13
FL-B01R@4'	2411084-03	Soil	11/05/24 14:55	11/05/24 18:13
BG06@4'	2411084-04	Soil	11/05/24 15:00	11/05/24 18:13
BG06@6'	2411084-05	Soil	11/05/24 15:05	11/05/24 18:13
BG07@4'	2411084-06	Soil	11/05/24 15:10	11/05/24 18:13
BG07@6'	2411084-07	Soil	11/05/24 15:15	11/05/24 18:13
BG08@4'	2411084-08	Soil	11/05/24 15:20	11/05/24 18:13
BG08@6'	2411084-09	Soil	11/05/24 15:25	11/05/24 18:13
BG09@4'	2411084-10	Soil	11/05/24 15:30	11/05/24 18:13
BG09@6'	2411084-11	Soil	11/05/24 15:35	11/05/24 18:13

Case Narrative

Client requested sample 1 be renamed on 12/6/24.

This is a revision of the report originally sent on 12/4/24 at 14:47 MT.

SUMMIT SCIENTIFIC

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

Lab ID	Page <u>1</u> of <u>1</u>
2411084	

Send Data To:		Send Invoice To:
Client: Civitas/Tasman	Project Manager: Sam Vogt/Jacob Evans	Company:
Address: 6855 W. 119th Ave	E-Mail: svgot@tasman-geo.com; jevans@civiresources.com	Project Name/Location:
City/State/Zip: Broomfield, CO 80020	Project Name: <u>Kiyota 3-35</u>	AFE#: <u>24410</u>
Phone: PM (610) 405-9078	Project Number:	PO/Billing Codes: <u>8523, 198</u>
Sampler Name: <u>Ben Long</u>		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	Metals	1,2,4 + 1,3,5 TMBS	TPH (GRO, DRO, ORO)	Barium	Lead	Selenium		pH/EC/SAR
1	SP-CS01e4'	11/5/24	1445	2			X			X					X	X	X			
2	WH-B01R06'		1450												X	X	X			
3	FL-B01R04'		1455													X				
4	BG06e4'		1500									X						X	X	
5	BG06e6'		1505																	
6	BG07e4'		1510																	
7	BG07e6'		1515																	
8	BG08e4'		1520																	
9	BG08e6'	↓	1525																	
10	BG09e4'	↓	1530																	
11	BG09e6'	↓	1535	↓			↓		↓			↓						↓	↓	
12																				
13																				
14																				
15																				

Relinquished by: <u>BR</u> Date/Time: <u>11/5/24 1745</u>	Received by: Tasman Lockbox Date/Time: <u>11/5/24 1745</u>	TAT Business Days	Field DO	Notes:
		Same Day	Field EC	
Relinquished by: <u>Tasman Lockbox</u> Date/Time: <u>11/5/24 1813</u>	Received by: <u>RAQA</u> Date/Time: <u>11/5/24 1813</u>	1 Day	Field ORP	
		2 Days	Field pH	
Relinquished by:	Received by:	3 Days	Field Temp.	
		Standard	Field Turb. <input checked="" type="checkbox"/>	
Temperature Upon Receipt: <u>7.3</u>	Corrected Temperature: <u>8</u>	IR gun #: <u>1</u>	HNO3 lot #: _____	

S₂

Sample Receipt Checklist

S2 Work Order# 2411084

Client: Cutast. Aman Client Project ID: Kiyota 3-35

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

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

Temp (°C) Thermometer #

	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"/>	<u>on ice</u>
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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.

AS
Custodian Printed Name

11/25/24
Date/Time

2025



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

Project: Civitas - Kiyota 3-35

Project Number: 24410
Project Manager: Sam Vogt

Reported:
12/09/24 07:48

SP-CS01R@4'
2411084-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/05/24 14:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	117	0.400	mg/kg dry	1	BHK1293	11/26/24	12/04/24	EPA 6020B	
Lead	25.9	0.200	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/05/24 14:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	95.0		%	1	BHK0506	11/11/24	11/13/24	Calculation	

Summit Scientific

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

Project: Civitas - Kiyota 3-35

Project Number: 24410
Project Manager: Sam Vogt

Reported:
12/09/24 07:48

WH-B01R@6'
2411084-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/05/24 14:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	128	0.400	mg/kg dry	1	BHK1293	11/26/24	12/04/24	EPA 6020B	
Lead	26.4	0.200	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/05/24 14:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	95.0		%	1	BHK0506	11/11/24	11/13/24	Calculation	

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Kiyota 3-35

Project Number: 24410
Project Manager: Sam Vogt

Reported:
12/09/24 07:48

FL-B01R@4'
2411084-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/05/24 14:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Lead	44.6	0.200	mg/kg dry	1	BHK1293	11/26/24	12/04/24	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/05/24 14:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	94.1		%	1	BHK0506	11/11/24	11/13/24	Calculation	

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Kiyota 3-35

Project Number: 24410
Project Manager: Sam Vogt

Reported:
12/09/24 07:48

BG06@4'
2411084-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/05/24 15:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0530	11/11/24	11/17/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/05/24 15:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.56	0.200	mg/kg dry	1	BHK1293	11/26/24	12/04/24	EPA 6020B	
Barium	64.8	0.400	"	"	"	"	"	"	
Cadmium	0.211	0.200	"	"	"	"	"	"	
Copper	3.78	0.400	"	"	"	"	"	"	
Lead	6.63	0.200	"	"	"	"	"	"	
Nickel	2.84	0.400	"	"	"	"	"	"	
Silver	0.0413	0.0200	"	"	"	"	"	"	
Zinc	18.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/05/24 15:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0763	11/14/24	11/19/24	EPA 7196A	

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

Date Sampled: **11/05/24 15:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	24.8	0.0500	mg/L dry	1	BHK0852	11/15/24	11/19/24	EPA 6020B	
Magnesium	4.77	0.0500	"	"	"	"	"	"	
Sodium	37.0	0.0500	"	"	"	"	"	"	

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Project: Civitas - Kiyota 3-35

Project Number: 24410
Project Manager: Sam Vogt

Reported:
12/09/24 07:48

BG06@4'
2411084-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/05/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.78	0.00100	units	1	BHK1029	11/20/24	11/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/05/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.3		%	1	BHK0506	11/11/24	11/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/05/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.948	0.0100	mmhos/cm	1	BHK0853	11/15/24	11/19/24	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **11/05/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.49		pH Units	1	BHK0854	11/15/24	11/19/24	EPA 9045D	

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Project: Civitas - Kiyota 3-35

Project Number: 24410
Project Manager: Sam Vogt

Reported:
12/09/24 07:48

BG06@6'
2411084-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/05/24 15:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0530	11/11/24	11/17/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/05/24 15:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.956	0.200	mg/kg dry	1	BHK1293	11/26/24	12/04/24	EPA 6020B	
Barium	24.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.01	0.400	"	"	"	"	"	"	
Lead	1.63	0.200	"	"	"	"	"	"	
Nickel	1.14	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	6.55	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/05/24 15:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0763	11/14/24	11/19/24	EPA 7196A	

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

Date Sampled: **11/05/24 15:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	25.5	0.0500	mg/L dry	1	BHK0852	11/15/24	11/19/24	EPA 6020B	
Magnesium	5.62	0.0500	"	"	"	"	"	"	
Sodium	25.6	0.0500	"	"	"	"	"	"	

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Project: Civitas - Kiyota 3-35

Project Number: 24410
Project Manager: Sam Vogt

Reported:
12/09/24 07:48

BG06@6'
2411084-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/05/24 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.20	0.00100	units	1	BHK1029	11/20/24	11/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/05/24 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.4		%	1	BHK0506	11/11/24	11/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/05/24 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.50	0.0100	mmhos/cm	1	BHK0853	11/15/24	11/19/24	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **11/05/24 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.17		pH Units	1	BHK0854	11/15/24	11/19/24	EPA 9045D	

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Project: Civitas - Kiyota 3-35

Project Number: 24410
Project Manager: Sam Vogt

Reported:
12/09/24 07:48

BG07@4'
2411084-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/05/24 15:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHK0530	11/11/24	11/17/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/05/24 15:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.90	0.200		mg/kg dry	1	BHK1293	11/26/24	12/04/24	EPA 6020B	
Barium	120	0.400		"	"	"	"	"	"	
Cadmium	0.390	0.200		"	"	"	"	"	"	
Copper	6.31	0.400		"	"	"	"	"	"	
Lead	12.0	0.200		"	"	"	"	"	"	
Nickel	4.37	0.400		"	"	"	"	"	"	
Silver	0.105	0.0200		"	"	"	"	"	"	
Zinc	27.9	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/05/24 15:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHK0763	11/14/24	11/19/24	EPA 7196A	

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

Date Sampled: **11/05/24 15:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	6.31	0.0500		mg/L dry	1	BHK0852	11/15/24	11/19/24	EPA 6020B	
Magnesium	1.55	0.0500		"	"	"	"	"	"	
Sodium	5.08	0.0500		"	"	"	"	"	"	

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Project: Civitas - Kiyota 3-35

Project Number: 24410
Project Manager: Sam Vogt

Reported:
12/09/24 07:48

BG07@4'
2411084-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/05/24 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.470	0.00100	units	1	BHK1029	11/20/24	11/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/05/24 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.2		%	1	BHK0506	11/11/24	11/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/05/24 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0896	0.0100	mmhos/cm	1	BHK0853	11/15/24	11/19/24	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **11/05/24 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.52		pH Units	1	BHK0854	11/15/24	11/19/24	EPA 9045D	

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Project: Civitas - Kiyota 3-35

Project Number: 24410
Project Manager: Sam Vogt

Reported:
12/09/24 07:48

BG07@6'
2411084-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/05/24 15:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0530	11/11/24	11/17/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/05/24 15:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.652	0.200	mg/kg dry	1	BHK1293	11/26/24	12/04/24	EPA 6020B	
Barium	13.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.04	0.400	"	"	"	"	"	"	
Lead	1.97	0.200	"	"	"	"	"	"	
Nickel	1.12	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	7.34	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/05/24 15:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0763	11/14/24	11/19/24	EPA 7196A	

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

Date Sampled: **11/05/24 15:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	7.88	0.0500	mg/L dry	1	BHK0852	11/15/24	11/19/24	EPA 6020B	
Magnesium	2.14	0.0500	"	"	"	"	"	"	
Sodium	6.60	0.0500	"	"	"	"	"	"	

Summit Scientific

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

Project: Civitas - Kiyota 3-35

Project Number: 24410
Project Manager: Sam Vogt

Reported:
12/09/24 07:48

BG07@6'
2411084-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/05/24 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.538	0.00100	units	1	BHK1029	11/20/24	11/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/05/24 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.8		%	1	BHK0506	11/11/24	11/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/05/24 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.140	0.0100	mmhos/cm	1	BHK0853	11/15/24	11/19/24	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **11/05/24 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.96		pH Units	1	BHK0854	11/15/24	11/19/24	EPA 9045D	

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Tasman Geosciences
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Broomfield CO, 80020

Project: Civitas - Kiyota 3-35

Project Number: 24410
Project Manager: Sam Vogt

Reported:
12/09/24 07:48

BG08@4'
2411084-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/05/24 15:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0530	11/11/24	11/18/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/05/24 15:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.529	0.200	mg/kg dry	1	BHK1293	11/26/24	12/04/24	EPA 6020B	
Barium	20.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.37	0.400	"	"	"	"	"	"	
Lead	2.52	0.200	"	"	"	"	"	"	
Nickel	1.34	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	8.69	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/05/24 15:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0763	11/14/24	11/19/24	EPA 7196A	

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

Date Sampled: **11/05/24 15:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	17.3	0.0500	mg/L dry	1	BHK0852	11/15/24	11/19/24	EPA 6020B	
Magnesium	3.42	0.0500	"	"	"	"	"	"	
Sodium	13.2	0.0500	"	"	"	"	"	"	

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

Project: Civitas - Kiyota 3-35

Project Number: 24410
Project Manager: Sam Vogt

Reported:
12/09/24 07:48

BG08@4'
2411084-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/05/24 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.759	0.00100	units	1	BHK1029	11/20/24	11/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/05/24 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.0		%	1	BHK0506	11/11/24	11/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/05/24 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.415	0.0100	mmhos/cm	1	BHK0853	11/15/24	11/19/24	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **11/05/24 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.39		pH Units	1	BHK0854	11/15/24	11/19/24	EPA 9045D	

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

Project: Civitas - Kiyota 3-35

Project Number: 24410
Project Manager: Sam Vogt

Reported:
12/09/24 07:48

BG08@6'
2411084-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/05/24 15:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0530	11/11/24	11/18/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/05/24 15:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.502	0.200	mg/kg dry	1	BHK1293	11/26/24	12/04/24	EPA 6020B	
Barium	17.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.17	0.400	"	"	"	"	"	"	
Lead	2.46	0.200	"	"	"	"	"	"	
Nickel	1.25	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	7.76	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/05/24 15:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0763	11/14/24	11/19/24	EPA 7196A	

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

Date Sampled: **11/05/24 15:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	13.8	0.0500	mg/L dry	1	BHK0852	11/15/24	11/19/24	EPA 6020B	
Magnesium	3.13	0.0500	"	"	"	"	"	"	
Sodium	12.0	0.0500	"	"	"	"	"	"	

Summit Scientific

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

Project: Civitas - Kiyota 3-35

Project Number: 24410
Project Manager: Sam Vogt

Reported:
12/09/24 07:48

BG08@6'
2411084-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/05/24 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.759	0.00100	units	1	BHK1029	11/20/24	11/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/05/24 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.3		%	1	BHK0506	11/11/24	11/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/05/24 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.420	0.0100	mmhos/cm	1	BHK0853	11/15/24	11/19/24	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **11/05/24 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.29		pH Units	1	BHK0854	11/15/24	11/19/24	EPA 9045D	

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

Project: Civitas - Kiyota 3-35

Project Number: 24410
Project Manager: Sam Vogt

Reported:
12/09/24 07:48

BG09@4'
2411084-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/05/24 15:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0530	11/11/24	11/18/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/05/24 15:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.20	0.200	mg/kg dry	1	BHK1293	11/26/24	12/04/24	EPA 6020B	
Barium	165	0.400	"	"	"	"	"	"	
Cadmium	0.314	0.200	"	"	"	"	"	"	
Copper	5.82	0.400	"	"	"	"	"	"	
Lead	10.0	0.200	"	"	"	"	"	"	
Nickel	5.06	0.400	"	"	"	"	"	"	
Silver	0.0571	0.0200	"	"	"	"	"	"	
Zinc	25.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/05/24 15:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0763	11/14/24	11/19/24	EPA 7196A	

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

Date Sampled: **11/05/24 15:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	34.4	0.0500	mg/L dry	1	BHK0852	11/15/24	11/19/24	EPA 6020B	
Magnesium	8.48	0.0500	"	"	"	"	"	"	
Sodium	74.0	0.0500	"	"	"	"	"	"	

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

Project: Civitas - Kiyota 3-35

Project Number: 24410
Project Manager: Sam Vogt

Reported:
12/09/24 07:48

BG09@4'
2411084-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/05/24 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.93	0.00100	units	1	BHK1029	11/20/24	11/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/05/24 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.8		%	1	BHK0506	11/11/24	11/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/05/24 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.739	0.0100	mmhos/cm	1	BHK0853	11/15/24	11/19/24	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **11/05/24 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.45		pH Units	1	BHK0854	11/15/24	11/19/24	EPA 9045D	

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

Project: Civitas - Kiyota 3-35

Project Number: 24410
Project Manager: Sam Vogt

Reported:
12/09/24 07:48

BG09@6'
2411084-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/05/24 15:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHK0530	11/11/24	11/18/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/05/24 15:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	4.24	0.200		mg/kg dry	1	BHK1293	11/26/24	12/04/24	EPA 6020B	
Barium	201	0.400		"	"	"	"	"	"	
Cadmium	0.311	0.200		"	"	"	"	"	"	
Copper	6.74	0.400		"	"	"	"	"	"	
Lead	11.0	0.200		"	"	"	"	"	"	
Nickel	5.99	0.400		"	"	"	"	"	"	
Silver	0.0607	0.0200		"	"	"	"	"	"	
Zinc	28.0	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/05/24 15:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHK0763	11/14/24	11/19/24	EPA 7196A	

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

Date Sampled: **11/05/24 15:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	30.0	0.0500		mg/L dry	1	BHK0852	11/15/24	11/19/24	EPA 6020B	
Magnesium	9.57	0.0500		"	"	"	"	"	"	
Sodium	84.8	0.0500		"	"	"	"	"	"	

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

Project: Civitas - Kiyota 3-35

Project Number: 24410
Project Manager: Sam Vogt

Reported:
12/09/24 07:48

BG09@6'
2411084-11 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **11/05/24 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.45	0.00100	units	1	BHK1029	11/20/24	11/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/05/24 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	75.7		%	1	BHK0506	11/11/24	11/13/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/05/24 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.636	0.0100	mmhos/cm	1	BHK0853	11/15/24	11/19/24	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **11/05/24 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.51		pH Units	1	BHK0854	11/15/24	11/19/24	EPA 9045D	

Summit Scientific

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

Project: Civitas - Kiyota 3-35

Project Number: 24410
Project Manager: Sam Vogt

Reported:
12/09/24 07:48

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control

Summit Scientific

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

Batch BHK0530 - EPA 3050B

Blank (BHK0530-BLK1)

Prepared: 11/11/24 Analyzed: 11/17/24

Boron ND 2.00 mg/L

LCS (BHK0530-BS1)

Prepared: 11/11/24 Analyzed: 11/17/24

Boron 5.09 2.00 mg/L 5.00 102 80-120

Duplicate (BHK0530-DUP1)

Source: 2411079-03

Prepared: 11/11/24 Analyzed: 11/17/24

Boron 0.825 2.00 mg/L 0.772 6.65 20

Matrix Spike (BHK0530-MS1)

Source: 2411079-03

Prepared: 11/11/24 Analyzed: 11/17/24

Boron 5.70 2.00 mg/L 5.00 0.772 98.6 75-125

Matrix Spike Dup (BHK0530-MSD1)

Source: 2411079-03

Prepared: 11/11/24 Analyzed: 11/17/24

Boron 6.00 2.00 mg/L 5.00 0.772 105 75-125 5.11 25

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

Project: Civitas - Kiyota 3-35

Project Number: 24410
Project Manager: Sam Vogt

Reported:
12/09/24 07:48

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHK1293 - EPA 3050B

Blank (BHK1293-BLK1)

Prepared: 11/26/24 Analyzed: 12/04/24

Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

LCS (BHK1293-BS1)

Prepared: 11/26/24 Analyzed: 12/04/24

Arsenic	39.8	0.200	mg/kg wet	40.3	98.6	80-120
Barium	40.3	0.400	"	40.3	100	80-120
Cadmium	2.07	0.200	"	2.02	103	80-120
Copper	41.5	0.400	"	40.3	103	80-120
Lead	20.0	0.200	"	20.2	99.2	80-120
Nickel	41.3	0.400	"	40.3	102	80-120
Silver	1.94	0.0200	"	2.02	96.2	80-120
Zinc	42.0	0.400	"	40.3	104	80-120
Selenium	4.10	0.260	"	4.03	102	80-120

Duplicate (BHK1293-DUP1)

Source: 2411074-23

Prepared: 11/26/24 Analyzed: 12/04/24

Arsenic	4.67	0.200	mg/kg dry	4.43	5.14	20	
Barium	928	0.400	"	1410	41.4	20	QR-04
Cadmium	0.707	0.200	"	0.623	12.7	20	
Copper	9.55	0.400	"	8.88	7.28	20	
Lead	12.6	0.200	"	16.3	25.7	20	QR-04
Nickel	6.15	0.400	"	5.52	10.8	20	
Silver	0.0884	0.0200	"	0.0864	2.21	20	
Zinc	29.0	0.400	"	26.8	7.92	20	
Selenium	0.472	0.260	"	0.355	28.2	20	QR-01

Summit Scientific

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

Project: Civitas - Kiyota 3-35

Project Number: 24410
Project Manager: Sam Vogt

Reported:
12/09/24 07:48

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHK1293 - EPA 3050B

Matrix Spike (BHK1293-MS1)

Source: 2411074-23

Prepared: 11/26/24 Analyzed: 12/04/24

Arsenic	47.9	0.200	mg/kg dry	42.7	4.43	102	75-125				
Barium	1100	0.400	"	42.7	1410	NR	75-125				QM-05
Cadmium	2.86	0.200	"	2.13	0.623	105	75-125				
Copper	31.1	0.400	"	42.7	8.88	52.0	75-125				QM-05
Lead	32.2	0.200	"	21.3	16.3	74.6	75-125				QM-05
Nickel	26.3	0.400	"	42.7	5.52	48.8	75-125				QM-05
Silver	0.665	0.0200	"	2.13	0.0864	27.1	75-125				QM-05
Zinc	49.5	0.400	"	42.7	26.8	53.1	75-125				QM-05
Selenium	3.36	0.260	"	4.27	0.355	70.3	75-125				QM-05

Matrix Spike Dup (BHK1293-MSD1)

Source: 2411074-23

Prepared: 11/26/24 Analyzed: 12/04/24

Arsenic	46.0	0.200	mg/kg dry	41.7	4.43	99.8	75-125	4.01	25		
Barium	1130	0.400	"	41.7	1410	NR	75-125	2.48	25		QM-05
Cadmium	2.83	0.200	"	2.08	0.623	106	75-125	1.26	25		
Copper	32.6	0.400	"	41.7	8.88	56.8	75-125	4.63	25		QM-05
Lead	33.9	0.200	"	20.8	16.3	84.6	75-125	5.16	25		
Nickel	26.8	0.400	"	41.7	5.52	50.9	75-125	1.57	25		QM-05
Silver	0.659	0.0200	"	2.08	0.0864	27.5	75-125	0.925	25		QM-05
Zinc	50.5	0.400	"	41.7	26.8	56.9	75-125	2.05	25		QM-05
Selenium	3.46	0.260	"	4.17	0.355	74.5	75-125	3.10	25		QM-05

Summit Scientific

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

Project: Civitas - Kiyota 3-35

Project Number: 24410
Project Manager: Sam Vogt

Reported:
12/09/24 07:48

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHK0763 - 3060A Mod

Blank (BHK0763-BLK1)

Prepared: 11/14/24 Analyzed: 11/19/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHK0763-BS1)

Prepared: 11/14/24 Analyzed: 11/19/24

Chromium, Hexavalent 25.6 0.30 mg/kg wet 25.0 102 80-120

Duplicate (BHK0763-DUP1)

Source: 2411081-01

Prepared: 11/14/24 Analyzed: 11/19/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHK0763-MS1)

Source: 2411081-01

Prepared: 11/14/24 Analyzed: 11/19/24

Chromium, Hexavalent 30.6 0.30 mg/kg dry 29.1 ND 105 75-125

Matrix Spike Dup (BHK0763-MSD1)

Source: 2411081-01

Prepared: 11/14/24 Analyzed: 11/19/24

Chromium, Hexavalent 31.0 0.30 mg/kg dry 29.1 ND 107 75-125 1.13 20

Summit Scientific

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

Project: Civitas - Kiyota 3-35

Project Number: 24410
Project Manager: Sam Vogt

Reported:
12/09/24 07:48

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 BHK0852 - General Preparation

Blank (BHK0852-BLK1)

Prepared: 11/15/24 Analyzed: 11/19/24

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

LCS (BHK0852-BS1)

Prepared: 11/15/24 Analyzed: 11/19/24

Calcium	5.84	0.0500	mg/L wet	5.00		117	70-130			
Magnesium	4.76	0.0500	"	5.00		95.2	70-130			
Sodium	4.90	0.0500	"	5.00		97.9	70-130			

Summit Scientific

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

Project: Civitas - Kiyota 3-35

Project Number: 24410
Project Manager: Sam Vogt

Reported:
12/09/24 07:48

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 BHK0506 - General Preparation

Duplicate (BHK0506-DUP1)		Source: 2411080-01		Prepared: 11/11/24 Analyzed: 11/13/24	
% Solids	89.7	%		89.5	0.201 20

Summit Scientific

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

Project: Civitas - Kiyota 3-35

Project Number: 24410
Project Manager: Sam Vogt

Reported:
12/09/24 07:48

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BHK0853 - General Preparation

Blank (BHK0853-BLK1)

Prepared: 11/15/24 Analyzed: 11/19/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHK0853-BS1)

Prepared: 11/15/24 Analyzed: 11/19/24

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 103 95-105

Duplicate (BHK0853-DUP1)

Source: 2411076-01

Prepared: 11/15/24 Analyzed: 11/19/24

Specific Conductance (EC) 0.208 0.0100 mmhos/cm 0.209 0.383 20

Summit Scientific

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

Project: Civitas - Kiyota 3-35

Project Number: 24410
Project Manager: Sam Vogt

Reported:
12/09/24 07:48

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BHK0854 - General Preparation

LCS (BHK0854-BS1)

Prepared: 11/15/24 Analyzed: 11/19/24

pH	9.20	pH Units	9.18	100	95-105
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Duplicate (BHK0854-DUP1)

Source: 2411076-01

Prepared: 11/15/24 Analyzed: 11/19/24

pH	8.87	pH Units	8.84	0.339	20
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Summit Scientific

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

Project: Civitas - Kiyota 3-35

Project Number: 24410
Project Manager: Sam Vogt

Reported:
12/09/24 07:48

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QR-01 Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- 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