

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 18, 2024

Sam Vogt

Tasman Geosciences

6855 W. 119th Ave.

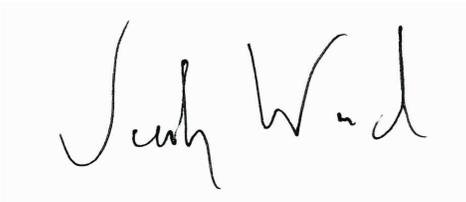
Broomfield, CO 80020

RE: Civitas - Bury Crandell C Unit 1

Work Order #2402272

Enclosed are the results of analyses for samples received by Summit Scientific on 02/14/24 17:51. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a long, sweeping underline.

Jacob Wood For Paul Shrewsbury

President



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

Project: Civitas - Bury Crandell C Unit 1

Project Number: 23730
Project Manager: Sam Vogt

Reported:
04/18/24 11:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@5'	2402272-01	Soil	02/14/24 12:20	02/14/24 17:51
FL-B01@4'	2402272-06	Soil	02/14/24 12:45	02/14/24 17:51
FL-B02@4'	2402272-07	Soil	02/14/24 12:50	02/14/24 17:51
SP-CS01	2402272-08	Soil	02/14/24 12:55	02/14/24 17:51

The Hexavalent Chromium hold-time has expired for these samples. Hexavalent Chromium was therefore cancelled prior to completion at Summit Scientific.

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

Lab ID	Page 1 of 1
2402272	

Client: Civitas/Tasman		Project Manager: Jacob Evans/Sam Vogt		Company:	
Address: 6855 W. 119th Ave.		E-Mail: svogt@tasman-geo.com, jevans@civiresources.com		Project Name/Location:	
City/State/Zip: Broomfield, CO 80020				AFE#: 23730	
Phone: PM Phone # - (610) 405-9078		Project Name: <u>Bury Crandell C Unit 1</u>		PO/Billing Codes: 8520.302	
Sampler Name: <u>Sean Clarke</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	BTEXN	1,2,4 + 1,3,5 TMBs	TPH (GRO,DRO,ORO)	PAH	pH, EC, SAR	Boron	
1	WH-B01 @ 5'	2/14/24	12:20	2						X									Full Table 915 pH, EC, SAR by Saturated paste preparation method Boron by Hot Water Soluble preparation Method Table 915 Metals - As, Ba, Cd, Cu, Pb, Ni, Se, Ag, Zn, Cr VI
2	WH-N01 @ 4'		12:25																
3	WH-S01 @ 4'		12:30																
4	WH-E01 @ 4'		12:35																
5	WH-W01 @ 4'		12:40																
6	FL-B01 @ 4'		12:45																
7	FL-B02 @ 4'		12:50																
8	SP-CS01		12:55																
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <u>Sean Clarke</u>	Date/Time: <u>2/14/24 14:40</u>	Received by: <u>Tasman Lockbox</u>	Date/Time: <u>2/14/24 14:40</u>	TAT Business Days	Field DO	Notes:
				Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by: <u>Tasman Lockbox</u>	Date/Time: <u>2/14/24 17:51</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/14/24 17:51</u>	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <u>7.9</u>	Corrected Temperature: <u>8</u>	IR gun #: <u>1</u>	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2402272

Client Custas Traman Client Project ID: Bury Crandell Cunit 1

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

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

Temp (°C) 7.9 Thermometer # 1

	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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on JCE
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same day
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 checked="" type="checkbox"/>	<input type="checkbox"/>	missing samples 2-5
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
2/14/24
Date/Time



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

Project: Civitas - Bury Crandell C Unit 1

Project Number: 23730
Project Manager: Sam Vogt

Reported:
04/18/24 11:53

WH-B01@5'
2402272-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/14/24 12:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHB0494	02/14/24	02/14/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **02/14/24 12:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0448	112 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0392	98.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/14/24 12:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0491	02/14/24	02/14/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/14/24 12:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	10.3	82.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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2402272-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **02/14/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0504	02/15/24	02/19/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **02/14/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0168	50.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0142	42.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/14/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0721	02/22/24	02/23/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/14/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Civitas - Bury Crandell C Unit 1

Project Number: 23730
Project Manager: Sam Vogt

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04/18/24 11:53

WH-B01@5'
2402272-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.08	0.200	mg/kg dry	1	BHD0179	04/05/24	04/10/24	EPA 6020B
Barium	321	0.400	"	"	"	"	"	"
Cadmium	0.265	0.200	"	"	"	"	"	"
Copper	4.11	0.400	"	"	"	"	"	"
Lead	14.9	0.200	"	"	"	"	"	"
Nickel	3.65	0.400	"	"	"	"	"	"
Silver	0.0598	0.0200	"	"	"	"	"	"
Zinc	18.5	0.400	"	"	"	"	"	"
Selenium	0.273	0.260	"	"	"	"	"	"

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

Date Sampled: **02/14/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	181	0.0500	mg/L dry	1	BHB0502	02/15/24	02/20/24	EPA 6020B	
Magnesium	0.119	0.0500	"	"	"	"	"	"	
Sodium	65.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/14/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.33	0.00100	units	1	BHB0744	02/22/24	02/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/14/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.4		%	1	BHB0515	02/15/24	02/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/14/24 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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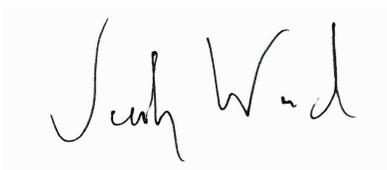
WH-B01@5'
2402272-01 (Soil)

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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Specific Conductance (EC)	1.69	0.0100	mmhos/cm	1	BHB0541	02/16/24	02/20/24	EPA 120.1
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WH-B01@5'
2402272-01 (Soil)

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

Date Sampled: **02/14/24 12:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	9.44		pH Units	1	BHD0127	02/16/24	04/08/24	EPA 9045D	I-04

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Project: Civitas - Bury Crandell C Unit 1

Project Number: 23730
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FL-B01@4'
2402272-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/14/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHB0494	02/14/24	02/14/24	EPA 8260B	
Toluene	0.11	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **02/14/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0435	109 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0396	99.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/14/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0491	02/14/24	02/14/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/14/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.94	71.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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FL-B01@4'
2402272-06 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **02/14/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0504	02/15/24	02/19/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **02/14/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0247	74.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0206	61.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/14/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0721	02/22/24	02/23/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/14/24 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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FL-B01@4'
2402272-06 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.21	0.200	mg/kg dry	1	BHD0179	04/05/24	04/10/24	EPA 6020B	
Barium	341	0.400	"	"	"	"	"	"	
Cadmium	0.641	0.200	"	"	"	"	"	"	
Copper	3.93	0.400	"	"	"	"	"	"	
Lead	12.3	0.200	"	"	"	"	"	"	
Nickel	5.15	0.400	"	"	"	"	"	"	
Silver	0.0678	0.0200	"	"	"	"	"	"	
Zinc	12.7	0.400	"	"	"	"	"	"	
Selenium	0.370	0.260	"	"	"	"	"	"	

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

Date Sampled: 02/14/24 12:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	39.9	0.0500	mg/L dry	1	BHB0502	02/15/24	02/20/24	EPA 6020B	
Magnesium	10.9	0.0500	"	"	"	"	"	"	
Sodium	31.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 02/14/24 12:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.12	0.00100	units	1	BHB0744	02/22/24	02/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 02/14/24 12:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.9		%	1	BHB0515	02/15/24	02/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: 02/14/24 12:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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FL-B01@4'
2402272-06 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

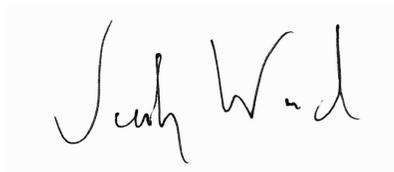
Specific Conductance (EC)	0.359	0.0100	mmhos/cm	1	BHB0541	02/16/24	02/20/24	EPA 120.1
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Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **02/14/24 12:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.71			pH Units	1	BHB0542	02/16/24	02/20/24	EPA 9045D	

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

Project: Civitas - Bury Crandell C Unit 1

Project Number: 23730
Project Manager: Sam Vogt

Reported:
04/18/24 11:53

FL-B02@4'
2402272-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/14/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.0096	0.0020	mg/kg	1	BHB0494	02/14/24	02/14/24	EPA 8260B	
Toluene	0.14	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.041	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.61	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.26	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.10	0.0050	"	"	"	"	"	"	
Naphthalene	0.030	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	5.4	0.50	"	"	"	"	"	"	

Date Sampled: **02/14/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0435	109 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0424	106 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/14/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHB0491	02/14/24	02/14/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/14/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.51	68.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Civitas - Bury Crandell C Unit 1

Project Number: 23730
Project Manager: Sam Vogt

Reported:
04/18/24 11:53

FL-B02@4'
2402272-07 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **02/14/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0504	02/15/24	02/19/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.00611	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0773	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.152	0.00500	"	"	"	"	"	"	

Date Sampled: **02/14/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0158	47.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0202	60.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/14/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0721	02/22/24	02/23/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/14/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Bury Crandell C Unit 1

Project Number: 23730
Project Manager: Sam Vogt

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04/18/24 11:53

FL-B02@4'
2402272-07 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.53	0.200	mg/kg dry	1	BHD0179	04/05/24	04/10/24	EPA 6020B	
Barium	589	0.400	"	"	"	"	"	"	
Cadmium	0.455	0.200	"	"	"	"	"	"	
Copper	5.50	0.400	"	"	"	"	"	"	
Lead	14.1	0.200	"	"	"	"	"	"	
Nickel	4.84	0.400	"	"	"	"	"	"	
Silver	0.0601	0.0200	"	"	"	"	"	"	
Zinc	16.7	0.400	"	"	"	"	"	"	
Selenium	0.326	0.260	"	"	"	"	"	"	

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

Date Sampled: **02/14/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	203	0.0500	mg/L dry	1	BHB0502	02/15/24	02/20/24	EPA 6020B	
Magnesium	34.5	0.0500	"	"	"	"	"	"	
Sodium	25.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **02/14/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.432	0.00100	units	1	BHB0744	02/22/24	02/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/14/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.2		%	1	BHB0515	02/15/24	02/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/14/24 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Civitas - Bury Crandell C Unit 1

Project Number: 23730
Project Manager: Sam Vogt

Reported:
04/18/24 11:53

FL-B02@4'
2402272-07 (Soil)

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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

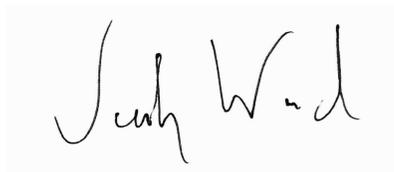
Specific Conductance (EC)	1.04	0.0100	mmhos/cm	1	BHB0541	02/16/24	02/20/24	EPA 120.1
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Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **02/14/24 12:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.14			pH Units	1	BHB0542	02/16/24	02/20/24	EPA 9045D	

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Project: Civitas - Bury Crandell C Unit 1

Project Number: 23730
Project Manager: Sam Vogt

Reported:
04/18/24 11:53

SP-CS01
2402272-08 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/14/24 12:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHB0494	02/14/24	02/14/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **02/14/24 12:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0432	108 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.3 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0399	99.8 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/14/24 12:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHB0491	02/14/24	02/15/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **02/14/24 12:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.98	71.8 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Civitas - Bury Crandell C Unit 1

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SP-CS01
2402272-08 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **02/14/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0504	02/15/24	02/19/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **02/14/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0218	65.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0218	65.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/14/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0721	02/22/24	02/23/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/14/24 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Civitas - Bury Crandell C Unit 1

Project Number: 23730
Project Manager: Sam Vogt

Reported:
04/18/24 11:53

SP-CS01
2402272-08 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.44	0.200	mg/kg dry	1	BHD0179	04/05/24	04/10/24	EPA 6020B	
Barium	833	0.400	"	"	"	"	"	"	
Cadmium	0.279	0.200	"	"	"	"	"	"	
Copper	6.63	0.400	"	"	"	"	"	"	
Lead	10.4	0.200	"	"	"	"	"	"	
Nickel	2.94	0.400	"	"	"	"	"	"	
Silver	0.0516	0.0200	"	"	"	"	"	"	
Zinc	11.0	0.400	"	"	"	"	"	"	
Selenium	0.286	0.260	"	"	"	"	"	"	

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

Date Sampled: 02/14/24 12:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	87.6	0.0500	mg/L dry	1	BHB0502	02/15/24	02/20/24	EPA 6020B	
Magnesium	23.4	0.0500	"	"	"	"	"	"	
Sodium	73.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 02/14/24 12:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.79	0.00100	units	1	BHB0744	02/22/24	02/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 02/14/24 12:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.2		%	1	BHB0515	02/15/24	02/15/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: 02/14/24 12:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Reported:
04/18/24 11:53

SP-CS01
2402272-08 (Soil)

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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Specific Conductance (EC)	0.808	0.0100	mmhos/cm	1	BHB0541	02/16/24	02/20/24	EPA 120.1
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Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **02/14/24 12:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.25			pH Units	1	BHB0542	02/16/24	02/20/24	EPA 9045D	

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Project: Civitas - Bury Crandell C Unit 1

Project Number: 23730
Project Manager: Sam Vogt

Reported:
04/18/24 11:53

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BHB0494 - EPA 5030 Soil MS

Blank (BHB0494-BLK1)

Prepared: 02/14/24 Analyzed: 02/15/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0390		"	0.0400		97.4	50-150			
Surrogate: Toluene-d8	0.0391		"	0.0400		97.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.6	50-150			

LCS (BHB0494-BS1)

Prepared: 02/14/24 Analyzed: 02/15/24

Benzene	0.118	0.0020	mg/kg	0.100		118	70-130			
Toluene	0.114	0.0050	"	0.100		114	70-130			
Ethylbenzene	0.122	0.0050	"	0.100		122	70-130			
m,p-Xylene	0.243	0.010	"	0.200		122	70-130			
o-Xylene	0.103	0.0050	"	0.100		103	70-130			
1,2,4-Trimethylbenzene	0.113	0.0050	"	0.100		113	70-130			
1,3,5-Trimethylbenzene	0.112	0.0050	"	0.100		112	70-130			
Naphthalene	0.117	0.0038	"	0.100		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0430		"	0.0400		108	50-150			
Surrogate: Toluene-d8	0.0402		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0377		"	0.0400		94.4	50-150			

Matrix Spike (BHB0494-MS1)

Source: 2402265-01

Prepared: 02/14/24 Analyzed: 02/15/24

Benzene	0.122	0.0020	mg/kg	0.100	ND	122	70-130			
Toluene	0.119	0.0050	"	0.100	ND	119	70-130			
Ethylbenzene	0.119	0.0050	"	0.100	ND	119	70-130			
m,p-Xylene	0.237	0.010	"	0.200	ND	119	70-130			
o-Xylene	0.103	0.0050	"	0.100	0.00387	98.8	70-130			
1,2,4-Trimethylbenzene	0.132	0.0050	"	0.100	0.0296	103	70-130			
1,3,5-Trimethylbenzene	0.104	0.0050	"	0.100	0.00369	101	70-130			
Naphthalene	0.146	0.0038	"	0.100	0.0514	94.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0470		"	0.0400		117	50-150			
Surrogate: Toluene-d8	0.0409		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0405		"	0.0400		101	50-150			

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Project Number: 23730
Project Manager: Sam Vogt

Reported:
04/18/24 11:53

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHB0494 - EPA 5030 Soil MS

Matrix Spike Dup (BHB0494-MSD1)	Source: 2402265-01			Prepared: 02/14/24 Analyzed: 02/15/24						
Benzene	0.123	0.0020	mg/kg	0.100	ND	123	70-130	0.708	30	
Toluene	0.118	0.0050	"	0.100	ND	118	70-130	1.19	30	
Ethylbenzene	0.119	0.0050	"	0.100	ND	119	70-130	0.151	30	
m,p-Xylene	0.235	0.010	"	0.200	ND	117	70-130	1.06	30	
o-Xylene	0.103	0.0050	"	0.100	0.00387	98.7	70-130	0.117	30	
1,2,4-Trimethylbenzene	0.131	0.0050	"	0.100	0.0296	101	70-130	0.889	30	
1,3,5-Trimethylbenzene	0.103	0.0050	"	0.100	0.00369	99.0	70-130	1.77	30	
Naphthalene	0.149	0.0038	"	0.100	0.0514	97.9	70-130	2.56	30	
Surrogate: 1,2-Dichloroethane-d4	0.0462		"	0.0400		116	50-150			
Surrogate: Toluene-d8	0.0402		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		100	50-150			

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Project: Civitas - Bury Crandell C Unit 1

Project Number: 23730
Project Manager: Sam Vogt

Reported:
04/18/24 11:53

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHB0491 - EPA 3550A

Blank (BHB0491-BLK1)

Prepared: 02/14/24 Analyzed: 02/15/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.5		"	12.5		108		30-150			

LCS (BHB0491-BS1)

Prepared: 02/14/24 Analyzed: 02/15/24

C10-C28 (DRO)	519	50	mg/kg	500		104		70-130			
Surrogate: <i>o</i> -Terphenyl	15.1		"	12.5		120		30-150			

Matrix Spike (BHB0491-MS1)

Source: 2402265-01

Prepared: 02/14/24 Analyzed: 02/15/24

C10-C28 (DRO)	675	50	mg/kg	500	74.0	120		70-130			
Surrogate: <i>o</i> -Terphenyl	15.9		"	12.5		127		30-150			

Matrix Spike Dup (BHB0491-MSD1)

Source: 2402265-01

Prepared: 02/14/24 Analyzed: 02/15/24

C10-C28 (DRO)	677	50	mg/kg	500	74.0	121		70-130	0.276	20	
Surrogate: <i>o</i> -Terphenyl	17.8		"	12.5		143		30-150			

Summit Scientific

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

Project: Civitas - Bury Crandell C Unit 1

Project Number: 23730
Project Manager: Sam Vogt

Reported:
04/18/24 11:53

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHB0504 - EPA 5030 Soil MS

Blank (BHB0504-BLK1)

Prepared: 02/15/24 Analyzed: 02/18/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0385		"	0.0333		115	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0273		"	0.0333		81.8	40-150			

LCS (BHB0504-BS1)

Prepared: 02/15/24 Analyzed: 02/18/24

Acenaphthene	0.0297	0.00500	mg/kg	0.0333		89.1	31-137			
Anthracene	0.0285	0.00500	"	0.0333		85.4	30-120			
Benzo (a) anthracene	0.0182	0.00500	"	0.0333		54.5	30-120			
Benzo (a) pyrene	0.0232	0.00500	"	0.0333		69.7	30-120			
Benzo (b) fluoranthene	0.0221	0.00500	"	0.0333		66.3	30-120			
Benzo (k) fluoranthene	0.0280	0.00500	"	0.0333		84.0	30-120			
Chrysene	0.0297	0.00500	"	0.0333		89.2	30-120			
Dibenz (a,h) anthracene	0.0216	0.00500	"	0.0333		64.7	30-120			
Fluoranthene	0.0272	0.00500	"	0.0333		81.6	30-120			
Fluorene	0.0287	0.00500	"	0.0333		86.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0219	0.00500	"	0.0333		65.6	30-120			
Pyrene	0.0311	0.00500	"	0.0333		93.2	35-142			
1-Methylnaphthalene	0.0417	0.00500	"	0.0333		125	35-142			
2-Methylnaphthalene	0.0305	0.00500	"	0.0333		91.6	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0369		"	0.0333		111	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0284		"	0.0333		85.1	40-150			

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Project: Civitas - Bury Crandell C Unit 1

Project Number: 23730
Project Manager: Sam Vogt

Reported:
04/18/24 11:53

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHB0504 - EPA 5030 Soil MS

Matrix Spike (BHB0504-MS1)	Source: 2402267-01			Prepared: 02/15/24 Analyzed: 02/18/24							
Acenaphthene	0.0178	0.00500	mg/kg	0.0333	ND	53.5	31-137				
Anthracene	0.0181	0.00500	"	0.0333	ND	54.3	30-120				
Benzo (a) anthracene	0.0158	0.00500	"	0.0333	ND	47.4	30-120				
Benzo (a) pyrene	0.0176	0.00500	"	0.0333	ND	52.7	30-120				
Benzo (b) fluoranthene	0.0128	0.00500	"	0.0333	ND	38.5	30-120				
Benzo (k) fluoranthene	0.0155	0.00500	"	0.0333	ND	46.4	30-120				
Chrysene	0.0182	0.00500	"	0.0333	ND	54.7	30-120				
Dibenz (a,h) anthracene	0.0180	0.00500	"	0.0333	ND	54.1	30-120				
Fluoranthene	0.0180	0.00500	"	0.0333	ND	54.0	30-120				
Fluorene	0.0179	0.00500	"	0.0333	ND	53.8	30-120				
Indeno (1,2,3-cd) pyrene	0.0178	0.00500	"	0.0333	ND	53.4	30-120				
Pyrene	0.0189	0.00500	"	0.0333	ND	56.8	35-142				
1-Methylnaphthalene	0.0259	0.00500	"	0.0333	ND	77.6	15-130				
2-Methylnaphthalene	0.0191	0.00500	"	0.0333	ND	57.3	15-130				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0242</i>		<i>"</i>	<i>0.0333</i>		<i>72.5</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0190</i>		<i>"</i>	<i>0.0333</i>		<i>56.9</i>	<i>40-150</i>				

Matrix Spike Dup (BHB0504-MSD1)	Source: 2402267-01			Prepared: 02/15/24 Analyzed: 02/18/24							
Acenaphthene	0.0139	0.00500	mg/kg	0.0333	ND	41.8	31-137	24.7	30		
Anthracene	0.0154	0.00500	"	0.0333	ND	46.2	30-120	16.2	30		
Benzo (a) anthracene	0.0214	0.00500	"	0.0333	ND	64.1	30-120	29.9	30		
Benzo (a) pyrene	0.0137	0.00500	"	0.0333	ND	41.0	30-120	24.8	30		
Benzo (b) fluoranthene	0.0186	0.00500	"	0.0333	ND	55.9	30-120	36.9	30		QR-02
Benzo (k) fluoranthene	0.0160	0.00500	"	0.0333	ND	48.1	30-120	3.71	30		
Chrysene	0.0159	0.00500	"	0.0333	ND	47.6	30-120	14.0	30		
Dibenz (a,h) anthracene	0.0156	0.00500	"	0.0333	ND	46.9	30-120	14.2	30		
Fluoranthene	0.0134	0.00500	"	0.0333	ND	40.3	30-120	29.1	30		
Fluorene	0.0144	0.00500	"	0.0333	ND	43.1	30-120	22.1	30		
Indeno (1,2,3-cd) pyrene	0.0153	0.00500	"	0.0333	ND	45.8	30-120	15.2	30		
Pyrene	0.0135	0.00500	"	0.0333	ND	40.5	35-142	33.5	30		QR-02
1-Methylnaphthalene	0.0151	0.00500	"	0.0333	ND	45.2	15-130	52.9	50		QR-02
2-Methylnaphthalene	0.0149	0.00500	"	0.0333	ND	44.8	15-130	24.5	50		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0163</i>		<i>"</i>	<i>0.0333</i>		<i>48.8</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0141</i>		<i>"</i>	<i>0.0333</i>		<i>42.4</i>	<i>40-150</i>				

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

Project: Civitas - Bury Crandell C Unit 1

Project Number: 23730
Project Manager: Sam Vogt

Reported:
04/18/24 11:53

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

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

Batch BHB0721 - EPA 3050B

Blank (BHB0721-BLK1)

Prepared: 02/22/24 Analyzed: 02/23/24

Boron ND 2.00 mg/L

LCS (BHB0721-BS1)

Prepared: 02/22/24 Analyzed: 02/23/24

Boron 5.06 2.00 mg/L 5.00 101 80-120

Duplicate (BHB0721-DUP1)

Source: 2402163-02

Prepared: 02/22/24 Analyzed: 02/23/24

Boron 0.106 2.00 mg/L 0.105 0.304 20

Matrix Spike (BHB0721-MS1)

Source: 2402163-02

Prepared: 02/22/24 Analyzed: 02/23/24

Boron 5.12 2.00 mg/L 5.00 0.105 100 75-125

Matrix Spike Dup (BHB0721-MSD1)

Source: 2402163-02

Prepared: 02/22/24 Analyzed: 02/23/24

Boron 5.19 2.00 mg/L 5.00 0.105 102 75-125 1.38 25

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Tasman Geosciences
6855 W. 119th Ave.
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Project: Civitas - Bury Crandell C Unit 1

Project Number: 23730
Project Manager: Sam Vogt

Reported:
04/18/24 11:53

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHD0179 - EPA 3050B

Blank (BHD0179-BLK1)

Prepared: 04/05/24 Analyzed: 04/10/24

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 (BHD0179-BS1)

Prepared: 04/05/24 Analyzed: 04/10/24

Arsenic	41.9	0.200	mg/kg wet	40.0		105	80-120			
Barium	39.3	0.400	"	40.0		98.2	80-120			
Cadmium	1.94	0.200	"	2.00		97.1	80-120			
Copper	39.9	0.400	"	40.0		99.7	80-120			
Lead	19.5	0.200	"	20.0		97.3	80-120			
Nickel	39.2	0.400	"	40.0		98.1	80-120			
Silver	1.95	0.0200	"	2.00		97.7	80-120			
Zinc	41.1	0.400	"	40.0		103	80-120			
Selenium	4.10	0.260	"	4.00		103	80-120			

Duplicate (BHD0179-DUP1)

Source: 2402270-01

Prepared: 04/05/24 Analyzed: 04/10/24

Arsenic	2.45	0.180	mg/kg dry		3.16		25.5	20		QR-04
Barium	23.0	0.360	"		28.2		20.1	20		QR-04
Cadmium	0.120	0.180	"		0.121		1.07	20		
Copper	2.15	0.360	"		2.26		5.29	20		
Lead	7.57	0.180	"		9.11		18.4	20		
Nickel	1.26	0.360	"		1.20		5.11	20		
Silver	0.0225	0.0180	"		0.0259		14.3	20		
Zinc	7.15	0.360	"		6.65		7.28	20		
Selenium	ND	0.234	"		ND			20		

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Bury Crandell C Unit 1

Project Number: 23730
Project Manager: Sam Vogt

Reported:
04/18/24 11:53

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 BHD0179 - EPA 3050B

Matrix Spike (BHD0179-MS1)

Source: 2402270-01

Prepared: 04/05/24 Analyzed: 04/10/24

Arsenic	30.0	0.200	mg/kg dry	46.6	3.16	57.7	75-125				QM-05
Barium	73.5	0.400	"	46.6	28.2	97.3	75-125				
Cadmium	2.52	0.200	"	2.33	0.121	103	75-125				
Copper	21.0	0.400	"	46.6	2.26	40.2	75-125				QM-05
Lead	30.0	0.200	"	23.3	9.11	89.7	75-125				
Nickel	20.4	0.400	"	46.6	1.20	41.2	75-125				QM-05
Silver	2.34	0.0200	"	2.33	0.0259	99.4	75-125				
Zinc	28.1	0.400	"	46.6	6.65	46.0	75-125				QM-05
Selenium	5.06	0.260	"	4.66	ND	109	75-125				

Matrix Spike Dup (BHD0179-MSD1)

Source: 2402270-01

Prepared: 04/05/24 Analyzed: 04/10/24

Arsenic	28.0	0.200	mg/kg dry	46.6	3.16	53.3	75-125	7.07	25		QM-05
Barium	76.9	0.400	"	46.6	28.2	105	75-125	4.50	25		
Cadmium	2.57	0.200	"	2.33	0.121	105	75-125	1.81	25		
Copper	20.8	0.400	"	46.6	2.26	39.7	75-125	1.00	25		QM-05
Lead	31.0	0.200	"	23.3	9.11	93.9	75-125	3.19	25		
Nickel	20.3	0.400	"	46.6	1.20	40.9	75-125	0.628	25		QM-05
Silver	2.43	0.0200	"	2.33	0.0259	103	75-125	3.56	25		
Zinc	28.0	0.400	"	46.6	6.65	45.9	75-125	0.128	25		QM-05
Selenium	4.99	0.260	"	4.66	ND	107	75-125	1.50	25		

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

Project: Civitas - Bury Crandell C Unit 1

Project Number: 23730
Project Manager: Sam Vogt

Reported:
04/18/24 11:53

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 BHB0502 - General Preparation

Blank (BHB0502-BLK1)

Prepared: 02/15/24 Analyzed: 02/20/24

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

LCS (BHB0502-BS1)

Prepared: 02/15/24 Analyzed: 02/20/24

Calcium	5.51	0.0500	mg/L wet	5.00		110	70-130			
Magnesium	5.58	0.0500	"	5.00		112	70-130			
Sodium	5.47	0.0500	"	5.00		109	70-130			

Summit Scientific

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Bury Crandell C Unit 1

Project Number: 23730
Project Manager: Sam Vogt

Reported:
04/18/24 11:53

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 BHB0515 - General Preparation

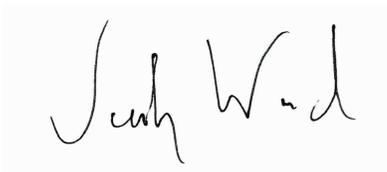
Duplicate (BHB0515-DUP1)

Source: 2402130-01

Prepared & Analyzed: 02/15/24

% Solids	94.0		%		94.4			0.330	20	
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Summit Scientific



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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Bury Crandell C Unit 1

Project Number: 23730
Project Manager: Sam Vogt

Reported:
04/18/24 11:53

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

Summit Scientific

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

Batch BHB0541 - General Preparation

Blank (BHB0541-BLK1)

Prepared: 02/16/24 Analyzed: 02/20/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHB0541-BS1)

Prepared: 02/16/24 Analyzed: 02/20/24

Specific Conductance (EC) 0.153 0.0100 mmhos/cm 0.150 102 95-105

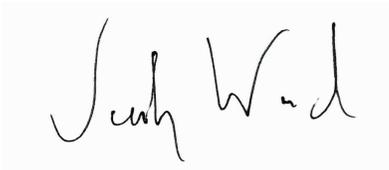
Duplicate (BHB0541-DUP1)

Source: 2402205-01

Prepared: 02/16/24 Analyzed: 02/20/24

Specific Conductance (EC) 0.262 0.0100 mmhos/cm 0.264 0.798 20

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

Project: Civitas - Bury Crandell C Unit 1

Project Number: 23730
Project Manager: Sam Vogt

Reported:
04/18/24 11:53

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

Summit Scientific

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

Batch BHB0542 - General Preparation

LCS (BHB0542-BS1)										
					Prepared: 02/16/24 Analyzed: 02/20/24					
pH	9.29		pH Units	9.18		101	95-105			
Duplicate (BHB0542-DUP1)										
					Source: 2402203-01 Prepared: 02/16/24 Analyzed: 02/20/24					
pH	8.36		pH Units	8.35			0.120	20		

Batch BHD0127 - General Preparation

LCS (BHD0127-BS1)										
					Prepared: 04/04/24 Analyzed: 04/08/24					
pH	9.02		pH Units	9.18		98.3	95-105			
Duplicate (BHD0127-DUP1)										
					Source: 2402062-03RE1 Prepared: 04/04/24 Analyzed: 04/08/24					
pH	8.59		pH Units	8.66			0.812	20		

Summit Scientific



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

Project: Civitas - Bury Crandell C Unit 1

Project Number: 23730
Project Manager: Sam Vogt

Reported:
04/18/24 11:53

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- 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.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- I-04 Sample was analyzed out of recommended holding time per clients request.
- 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