

Aristocrat 42-4C

SENE Sec. 4-T3N-R65W

API: 123-12720

Remediation Project #: 28424

Form 19 Data Package

November 2023

Prepared by Tasman, Inc.







On behalf of Crestone Peak Resources Operating, LLC






PHOTO LOG

SITE NAME: Aristocrat Angus 42-4C								DATE: 11/17/2023	REM. PROJECT #: 28424	WEATHER: 55F, Foggy
SITE DIRECTIONS: CR 38 & 41, W 0.25 mi, on Access rd, S 0.25 mi, SE 300ft INTO								CLIENT: Crestone Peak Resources Operating, LLC		
LEGALS AND LAT/LONG: 40.256172, -104.661234								TASMAN PERSONNEL: Daniel Hensel		
SOIL TYPES: SP - poorly graded sand								SURFACE GRADIENT: East		
SURROUNDING LAND USE: Rangeland								CROP:		
SOIL SAMPLING								FACILITY INFRASTRUCTURE		
Date/Time	Soil Sample ID	PID (ppm)	Visual	Olfactory	Photo? (Y/N)	USCS	Lab (Y/N)	EQUIPMENT	Quantity	
								Above Ground Storage Tank (AST)		
11/17/2023 10:11	WH-B01@8'	53.0	No Staining	Slight HC Oc	Y	SP	Y	Produced Water Vessel (PWV)		
11/17/2023 10:15	WH-N01@7'	7.0	No Staining	No Odor	Y	SP	N	Separator (SEP)		
11/17/2023 10:17	WH-S01@7'	3.9	No Staining	No Odor	Y	SP	N	Emission Control Device (ECD)		
11/17/2023 10:25	WH-E01@7'	3.3	No Staining	No Odor	Y	SP	N	Dump Line (DL)		
11/17/2023 10:30	WH-W01@7'	3.4	No Staining	No Odor	Y	SP	N	Wellhead (WH)	1	
11/17/2023 10:35	SP-CS01	16.2	No Staining	No Odor	N	SP	Y	Flowline (FL)		
11/17/2023 10:37	SP-CS02	21.5	No Staining	No Odor	N	SP	Y	FL Method of Closure		
								FL Footage Removed		
								Footaged Abandoned in Place		
								Other:		
								Soil Loads Removed		
								IMPACTED SOIL IDENTIFIED? Yes		
								ESTIMATED VOLUME OF IMPACTS: On-going excavation		
								Date	Number	CY
								Total Removed	0	0
								Disposal Facility:		
								Groundwater Recovery		
								DATE GW ENCOUNTERED:	DEPTH:	
								GROUNDWATER IN CONTACT WITH IMPACTED SOIL?		
								LNAPL OR SHEEN OBSERVED ON GW?		
GROUNDWATER SAMPLING								Date	BBLS	
Date/Time	Groundwater Sample ID	Depth Collected	Turbid?	Sheen?	Odor?	Photo?				
								Total Removed	0	
								Disposal Facility:		

Photographic Log

					
<p>☀ 7°N (T) ● 40°15'22"N, 104°39'40"W ±13ft ▲ 4809ft</p>			<p>☀ 181°S (T) ● 40°15'22"N, 104°39'40"W ±16ft ▲ 4809ft</p>		
					
<p>17 Nov 2023, 10:45:45</p>			<p>17 Nov 2023, 10:45:32</p>		
Equipment ID:		Equipment Type:	Equipment ID:		Equipment Type:
Material:	Volume:	Contents:	Material:	Volume:	Contents:
Notes/Conditions: Surrounding land use facing N			Notes/Conditions: Surrounding land use facing S		

Photographic Log

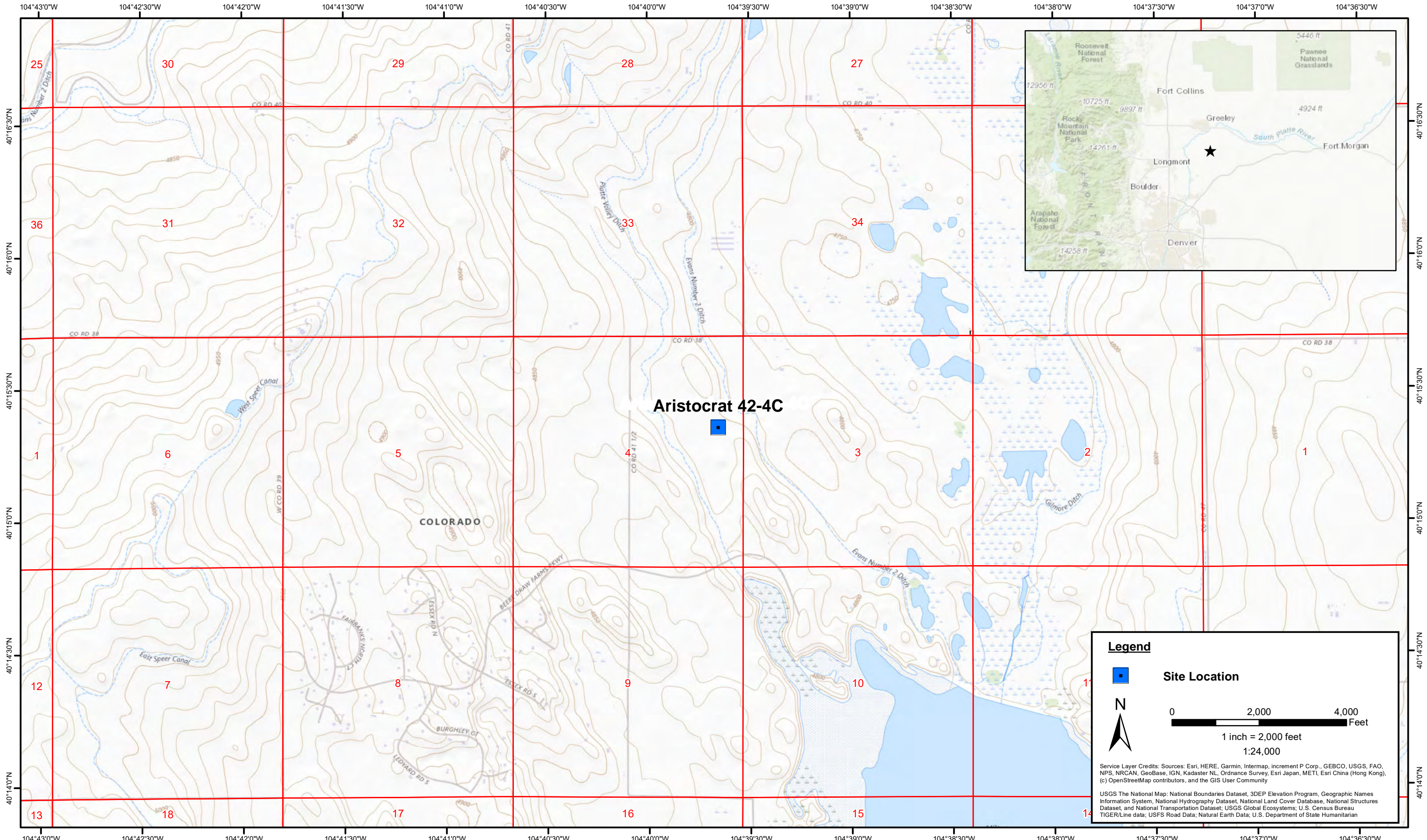
 <p>☀ 92°E (T) ● 40°15'22"N, 104°39'40"W ±13ft ▲ 4808ft</p>			 <p>☀ 274°W (T) ● 40°15'22"N, 104°39'40"W ±29ft ▲ 4808ft</p>		
 <p>17 Nov 2023, 10:45:54</p>			 <p>17 Nov 2023, 10:45:27</p>		
Equipment ID:		Equipment Type:	Equipment ID:		Equipment Type:
Material:	Volume:	Contents:	Material:	Volume:	Contents:
Notes/Conditions: Surrounding land use facing E			Notes/Conditions: Surrounding land use facing W		



Photographic Log

Equipment ID:		Equipment Type:	Equipment ID:		Equipment Type:
Material:	Volume:	Contents:	Material:	Volume:	Contents:
Notes/Conditions: Soil screening and sampling locations			Notes/Conditions: Soil screening locations		

FIGURES



DATE: January 2024
 DESIGNED BY: S. Vogt
 DRAWN BY: L. Reed

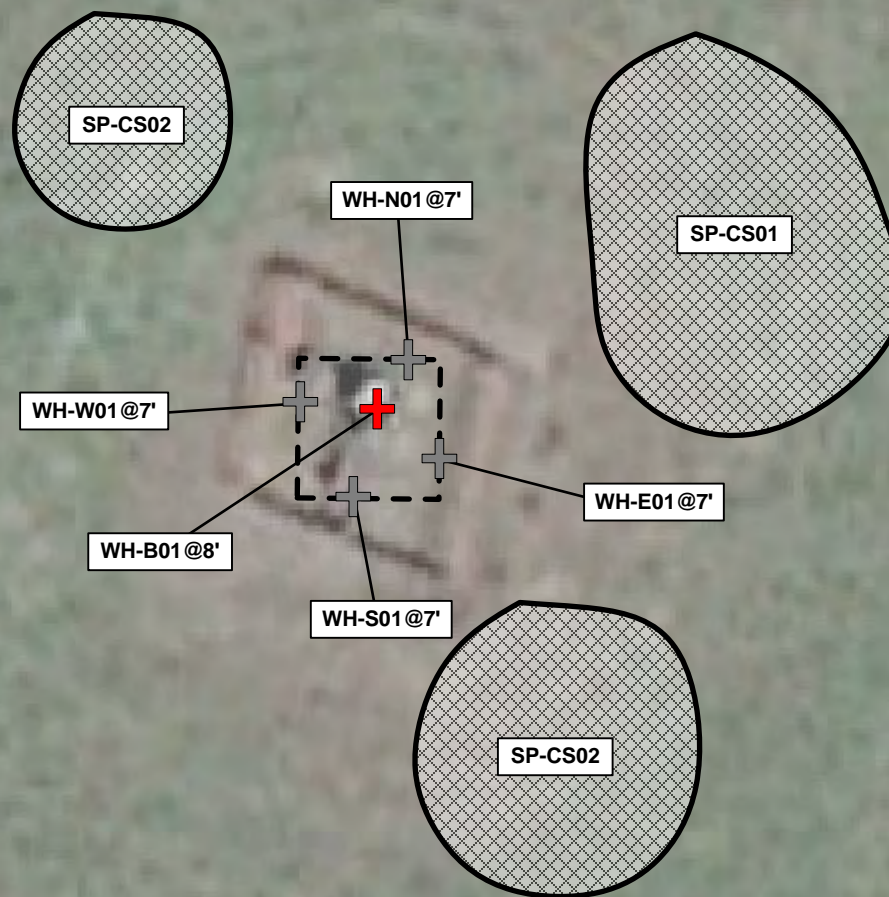


Tasman, Inc.
 6855 W. 119th Ave
 Broomfield, CO 80020

Crestone Peak Resources Operating, LLC
Aristocrat 42-4C
 SENE Sec. 4-T3N-R65W
 Weld County, Colorado

Site Location Map

Figure
1



Legend

- Soil sample location – Below ECMC Table 915-1 Soil Standards (Collected via Trimble GPS)
- Soil sample location – Exceeded ECMC Table 915-1 Soil Standards (Collected via Trimble GPS)
- Excavation extent (Collected via Trimble GPS)
- Stockpile location (Collected via Trimble GPS)

Notes

Site infrastructure has been removed.

All locations are approximate unless otherwise noted.

GPS = Global Positioning System

ECMC = Colorado Energy & Carbon Management Commission

0 ft. 10 ft. 20 ft.

Image Source: Google Earth

DATE:	January 30, 2024
DESIGNED BY:	S. Vogt
DRAWN BY:	S. Vogt



Tasman, Inc.
 6855 W119th Ave.
 Broomfield, CO 80020

Crestone Peak Resources Operating, LLC
Aristocrat 42-4C
 SENE Sec. 4-T3N-R65W
 Weld County, Colorado

Soil Sample Location Map

Figure 2

TABLES

TABLE 1
ARISTOCRAT 42-4C
SOIL SAMPLE LOCATIONS
CRESTONE PEAK RESOURCES OPERATING, LLC



Soil Sample Location	Depth	Date	PID Reading (ppm)	Latitude	Longitude	GPS PDOP Value	Lab (Y/N)
WH-B01@8'	8'	11/17/2023	53.0	40.256187	-104.661229	0.9	Y
WH-N01@7'	7'	11/17/2023	7.0	40.256193	-104.661221	0.9	N
WH-S01@7'	7'	11/17/2023	3.9	40.256174	-104.661233	0.9	N
WH-E01@7'	7'	11/17/2023	3.3	40.256180	-104.661218	0.9	N
WH-W01@7'	7'	11/17/2023	3.4	40.256188	-104.661242	0.9	N
SP-CS01	-	11/17/2023	16.2	40.256236	-104.661183	0.9	Y
SP-CS02	-	11/17/2023	21.5	40.256243	-104.661263	0.9	Y

Notes:

PID = Photoionization Detector

ppm = parts per million

GPS = Global Positioning System

PDOP = Position Dilution of Precision

- = Not Applicable

TABLE 2
ARISTOCRAT 42-4C
SOIL ANALYTICAL DATA - VOCs
CRESTONE PEAK RESOURCES OPERATING, LLC

Soil Sample Location	Depth	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
ECMC Organic Compounds in Soils - GSSL ⁽¹⁾			0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
ECMC Organic Compounds in Soils - RSL ⁽²⁾			1.2	490	5.8	58	2	500			30	27
SP-CS01	-	11/17/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SP-CS02	-	11/17/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
WH-B01@8'	8'	11/17/2023	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050

Notes:

VOCs = Volatile Organic Compounds

(1) Standards for soil are taken from ECMC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from ECMC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

ECMC = Colorado Energy & Carbon Management Commission

GSSL = Protection of Groundwater Screening Level

RSL = Residential Soil Screening Level

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = milligrams per kilogram

TVPH - GRO = Total Volatile Petroleum Hydrocarbons - Gasoline Range Organics

TEPH - DRO = Total Extractable Petroleum Hydrocarbons - Diesel Range Organics

TEPH - ORO = Total Extractable Petroleum Hydrocarbons - Oil Range Organics

1,2,4 - TMB = 1,2,4 - Trimethylbenzene

1,3,5 - TMB = 1,3,5 - Trimethylbenzene

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations

TABLE 3
ARISTOCRAT 42-4C
SOIL ANALYTICAL DATA - PAHs
CRESTONE PEAK RESOURCES OPERATING, LLC

Soil Sample Location	Depth	Date	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)A (mg/kg)	Benzo(b)F (mg/kg)	Benzo(k)F (mg/kg)	Benzo(a)P (mg/kg)	Chrysene (mg/kg)	D (a,h) A (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	1-M (mg/kg)	2-M (mg/kg)	Pyrene (mg/kg)
ECMC Organic Compounds in Soils - GSSL ⁽¹⁾			0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3
ECMC Organic Compounds in Soils - RSL ⁽²⁾			360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
SP-CS01	-	11/17/2023	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SP-CS02	-	11/17/2023	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
WH-B01@8'	8'	11/17/2023	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0200	0.0182	<0.00500

Notes:

PAHs = Polycyclic Aromatic Hydrocarbons

(1) Standards for soil are taken from ECMC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from ECMC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

ECMC = Colorado Energy & Carbon Management Commission

GSSL = Protection of Groundwater Screening Level

RSL = Residential Soil Screening Level

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = milligram per kilogram

Benzo(a)A = Benzo(a)Anthracene

Benzo(b)F = Benzo(b)Fluoranthene

Benzo(k)F = Benzo(k)Fluoranthene

Benzo(a)P = Benzo(a)Pyrene

D (a,h) A = Dibenz(a,h)Anthracene

1,2,3-CD = Indeno(1,2,3-cd)Pyrene

1-M = 1-Methylnaphthalene

2-M = 2-Methylnaphthalene

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Organic Compounds in Soils - Residential Soil Screening Level Concentrations

TABLE 4
ARISTOCRAT 42-4C
SOIL ANALYTICAL DATA - METALS
CRESTONE PEAK RESOURCES OPERATING, LLC

Soil Sample Location	Depth	Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Metals in Soils - GSSL ⁽¹⁾			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ECMC Metals in Soils - RSL ⁽²⁾			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
WH-B01@8'	8'	11/17/2023	1.60	41.7	<0.200	<0.30	8.47	28.5	2.74	<0.260	0.0223	27.8

Notes:

(1) Standards for soil are taken from ECMC Table 915-1: Metals in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from ECMC Table 915-1: Metals in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

ECMC = Colorado Energy & Carbon Management Commission

GSSL = Protection of Groundwater Screening Level

RSL = Residential Soil Screening Level

(<) = Analytical result is less than the indicated laboratory minimum detection limit

mg/kg = milligrams per kilogram

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Metals in Soils - Protection of Groundwater Soil Screening Level Concentrations

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Metals in Soils - Residential Soil Screening Level Concentrations

Highest background concentration x1.25

Italics = Laboratory minimum detection limit exceeds the ECMC Table 915-1 Standard

* Result exceeded the ECMC Table 915-1 standard, but was within site-specific 1.25x background multiplier levels

TABLE 5
ARISTOCRAT 42-4C



SOIL ANALYTICAL DATA - SOIL RECLAMATION
CRESTONE PEAK RESOURCES OPERATING, LLC

Soil Sample Location	Depth	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
ECMC Soil Suitability for Reclamation ⁽¹⁾			6 - 8.3	< 6	< 4	2
SP-CS01	-	11/17/2023	8.37	0.730	0.226	<2.00
SP-CS02	-	11/17/2023	8.04	0.653	0.193	<2.00
WH-B01@8'	8'	11/17/2023	8.49	0.557	0.318	<2.00

Notes:

(1) Standards for soil are taken from ECMC Table 915-1: Soil Suitability for Reclamation (Effective January 15, 2021)

ECMC = Colorado Energy & Carbon Management Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mmhos/cm = millimhos per centimeter

mg/L = milligrams per liter

pH = Potential of Hydrogen

SAR = Sodium Adsorption Ratio

EC = Electrical Conductivity

BOLD = Analytical result is in exceedance of ECMC Table 915-1: Soil Suitability for Reclamation Concentrations

Highest background concentration

* Result exceeded the ECMC Table 915-1 standard, but was within site-specific background concentrations

LABORATORY ANALYTICAL DATA

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 30, 2024

Sam Vogt

Tasman Geosciences

6855 W. 119th Ave.

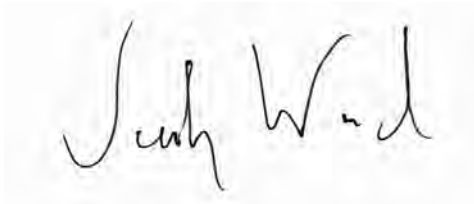
Broomfield, CO 80020

RE: Civitas - Aristocrat 42-4C

Work Order #2311401

Enclosed are the results of analyses for samples received by Summit Scientific on 11/17/23 17:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and "W".

Jacob Wood For Paul Shrewsbury

President



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

Project: Civitas - Aristocrat 42-4C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/30/24 11:57

ANALYTICAL REPORT FOR SAMPLES

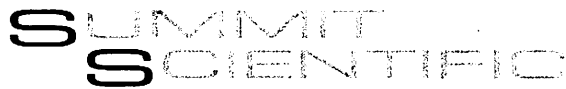
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@8'	2311401-01	Soil	11/17/23 10:11	11/17/23 17:50
SP-CS01	2311401-02	Soil	11/17/23 10:35	11/17/23 17:50
SP-CS02	2311401-03	Soil	11/17/23 10:37	11/17/23 17:50

Case Narrative

Samuel Vogt requested 915 Metals be added to WH-B01@8' on 1/23/2024.
This report includes those results.

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.



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

Lab ID	Page 1 of 1
2311401	

Send Data To:		Send Invoice To:
Client: Civitas / Tasman	Project Manager: Sam Vogt / Jacob Evans	Company: Civitas
Address: 6855 W. 119th Ave.	E-Mail: Svogt@tasman-geo.com	Project Name/Location:
City/State/Zip: Broomfield, CO 80020	Jevans@civitasresources.com	AFE#:
Phone: PM Phone # - (610)-405-9078	Project Name: Aristocrat Angus 42-4C	PO/Billing Codes:
Sampler Name: Daniel Hensel	Project Number:	Contact:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Analysis Requested							Special Instructions
					HCl	HNO3	None	Other	Water	Soil		Other	BTEXN	1,2,4 + 1,3,5 TMB's	TPH(GRO,DRO,ORO)	PAH	pH,EC,SAR	Boron	
1	W4-B01081	11/7/23	10:11	2			Y			X		X	X	X	X	X			
2	SP-C001	↓	10:35	↓			↓					↓	↓	↓	↓	↓			
3	SP-C002	↓	10:37	↓			↓					↓	↓	↓	↓	↓			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <i>HW</i> 11/7/23 13:05	Received by: <i>HW</i> 11/7/23 13:05	TAT Business Days	Field DO	Notes:
Relinquished by: <i>TasmanLUCSPOX</i> 11/7/23 17:50	Received by: <i>DR</i> 11/7/23 17:50	Same Day	Field EC	
Relinquished by:	Received by:	1 Day	Field ORP	
		2 Days	Field pH	
		3 Days	Field Temp.	
Temperature Upon Receipt: 9.9	Corrected Temperature: <i>8</i>	Standard	Field Turb. <input checked="" type="checkbox"/>	
	IR gun #: 1		HNO3 lot #:	

S₂

Sample Receipt Checklist

S2 Work Order# 2311401

Client: Christie Casman

Client Project ID: Amsterdam Angus 42-4C

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"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ICE
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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no time stamps
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

11/17/23

Date/Time

000000



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

Project: Civitas - Aristocrat 42-4C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/30/24 11:57

WH-B01@8'
2311401-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/17/23 10:11**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGK0773	11/20/23	11/21/23	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	0.0055	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/17/23 10:11**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0383	95.7 %		50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0419	105 %		50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0413	103 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/17/23 10:11**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGK0771	11/20/23	11/22/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/17/23 10:11**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: o-Terphenyl</i>	7.09	56.7 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Civitas - Aristocrat 42-4C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/30/24 11:57

WH-B01@8'
2311401-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/17/23 10:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0822	11/21/23	11/23/23	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	0.0200	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0182	0.00500	"	"	"	"	"	"	

Date Sampled: **11/17/23 10:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0338	101 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0172	51.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/17/23 10:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK1008	11/28/23	11/29/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/17/23 10:11**

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

Project: Civitas - Aristocrat 42-4C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/30/24 11:57

WH-B01@8'
2311401-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.60	0.200	mg/kg dry	1	BHA0908	01/25/24	01/26/24	EPA 6020B	
Barium	41.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	8.47	0.400	"	"	"	"	"	"	
Lead	28.5	0.200	"	"	"	"	"	"	
Nickel	2.74	0.400	"	"	"	"	"	"	
Silver	0.0223	0.0200	"	"	"	"	"	"	
Zinc	27.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/17/23 10:11

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0846	01/24/24	01/24/24	EPA 7196A	I-04

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

Date Sampled: 11/17/23 10:11

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	216	0.0500	mg/L dry	1	BGL0058	12/01/23	12/06/23	EPA 6020B	
Magnesium	35.6	0.0500	"	"	"	"	"	"	
Sodium	33.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/17/23 10:11

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.557	0.00100	units	1	BGL0210	12/06/23	12/06/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: Civitas - Aristocrat 42-4C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/30/24 11:57

WH-B01@8'
2311401-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/17/23 10:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.4		%	1	BGK1058	11/29/23	11/29/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/17/23 10:11**

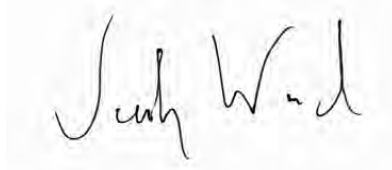
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.318	0.0100	mmhos/cm	1	BGL0116	12/04/23	12/04/23	EPA 120.1	

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

Date Sampled: **11/17/23 10:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.49		pH Units	1	BGL0115	12/04/23	12/04/23	EPA 9045D	

Summit Scientific



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

Project: Civitas - Aristocrat 42-4C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/30/24 11:57

SP-CS01
2311401-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/17/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGK0773	11/20/23	11/21/23	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: **11/17/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0386	96.4 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0417	104 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0404	101 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/17/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGK0771	11/20/23	11/22/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/17/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.24	65.9 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Civitas - Aristocrat 42-4C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/30/24 11:57

SP-CS01
2311401-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/17/23 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0822	11/21/23	11/23/23	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: **11/17/23 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0442	133 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0250	75.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/17/23 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK1008	11/28/23	11/29/23	EPA 6020B	

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

Date Sampled: **11/17/23 10:35**

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

Project: Civitas - Aristocrat 42-4C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/30/24 11:57

SP-CS01
2311401-02 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	94.2	0.0500	mg/L dry	1	BGL0058	12/01/23	12/06/23	EPA 6020B	
Magnesium	15.5	0.0500	"	"	"	"	"	"	
Sodium	29.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/17/23 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.730	0.00100	units	1	BGL0210	12/06/23	12/06/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/17/23 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.8		%	1	BGK1058	11/29/23	11/29/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/17/23 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.226	0.0100	mmhos/cm	1	BGL0116	12/04/23	12/04/23	EPA 120.1	

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

Date Sampled: **11/17/23 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.37		pH Units	1	BGL0115	12/04/23	12/04/23	EPA 9045D	

Summit Scientific

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

Project: Civitas - Aristocrat 42-4C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/30/24 11:57

SP-CS02
2311401-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/17/23 10:37**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGK0773	11/20/23	11/21/23	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: **11/17/23 10:37**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0383	95.8 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0411	103 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.4 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/17/23 10:37**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGK0771	11/20/23	11/22/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/17/23 10:37**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.20	65.6 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Civitas - Aristocrat 42-4C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/30/24 11:57

SP-CS02
2311401-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/17/23 10:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGK0822	11/21/23	11/23/23	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: **11/17/23 10:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0377	113 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0226	67.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/17/23 10:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGK1008	11/28/23	11/29/23	EPA 6020B	

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

Date Sampled: **11/17/23 10:37**

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

Project: Civitas - Aristocrat 42-4C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/30/24 11:57

SP-CS02
2311401-03 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	87.8	0.0500	mg/L dry	1	BGL0058	12/01/23	12/06/23	EPA 6020B	
Magnesium	16.8	0.0500	"	"	"	"	"	"	
Sodium	25.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/17/23 10:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.653	0.00100	units	1	BGL0210	12/06/23	12/06/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/17/23 10:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.2		%	1	BGK1058	11/29/23	11/29/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/17/23 10:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.193	0.0100	mmhos/cm	1	BGL0116	12/04/23	12/04/23	EPA 120.1	

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

Date Sampled: **11/17/23 10:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.04		pH Units	1	BGL0115	12/04/23	12/04/23	EPA 9045D	

Summit Scientific

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

Project: Civitas - Aristocrat 42-4C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/30/24 11:57

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 BGK0773 - EPA 5030 Soil MS

Blank (BGK0773-BLK1)

Prepared: 11/20/23 Analyzed: 11/21/23

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0404</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0428</i>		<i>"</i>	<i>0.0400</i>		<i>107</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0380</i>		<i>"</i>	<i>0.0400</i>		<i>95.0</i>	<i>50-150</i>			

LCS (BGK0773-BS1)

Prepared: 11/20/23 Analyzed: 11/21/23

Benzene	0.109	0.0020	mg/kg	0.100		109	70-130			
Toluene	0.102	0.0050	"	0.100		102	70-130			
Ethylbenzene	0.106	0.0050	"	0.100		106	70-130			
m,p-Xylene	0.208	0.010	"	0.200		104	70-130			
o-Xylene	0.0977	0.0050	"	0.100		97.7	70-130			
1,2,4-Trimethylbenzene	0.0963	0.0050	"	0.100		96.3	70-130			
1,3,5-Trimethylbenzene	0.0987	0.0050	"	0.100		98.7	70-130			
Naphthalene	0.0931	0.0038	"	0.100		93.1	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0385</i>		<i>"</i>	<i>0.0400</i>		<i>96.3</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0411</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0389</i>		<i>"</i>	<i>0.0400</i>		<i>97.3</i>	<i>50-150</i>			

Matrix Spike (BGK0773-MS1)

Source: 2311376-01

Prepared: 11/20/23 Analyzed: 11/21/23

Benzene	0.107	0.0020	mg/kg	0.100	ND	107	70-130			
Toluene	0.103	0.0050	"	0.100	ND	103	70-130			
Ethylbenzene	0.0920	0.0050	"	0.100	ND	92.0	70-130			
m,p-Xylene	0.223	0.010	"	0.200	ND	112	70-130			
o-Xylene	0.115	0.0050	"	0.100	ND	115	70-130			
1,2,4-Trimethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130			
1,3,5-Trimethylbenzene	0.119	0.0050	"	0.100	ND	119	70-130			
Naphthalene	0.105	0.0038	"	0.100	ND	105	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0380</i>		<i>"</i>	<i>0.0400</i>		<i>94.9</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0417</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0392</i>		<i>"</i>	<i>0.0400</i>		<i>98.0</i>	<i>50-150</i>			

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat 42-4C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/30/24 11:57

Volatile Organic Compounds by EPA Method 8260B - Quality Control

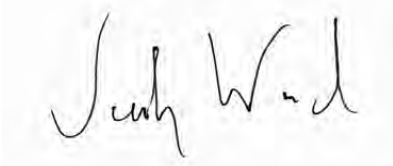
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Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BGK0773 - EPA 5030 Soil MS

Matrix Spike Dup (BGK0773-MSD1)	Source: 2311376-01			Prepared: 11/20/23 Analyzed: 11/21/23						
Benzene	0.0921	0.0020	mg/kg	0.100	ND	92.1	70-130	14.9	30	
Toluene	0.117	0.0050	"	0.100	ND	117	70-130	13.0	30	
Ethylbenzene	0.111	0.0050	"	0.100	ND	111	70-130	18.6	30	
m,p-Xylene	0.224	0.010	"	0.200	ND	112	70-130	0.523	30	
o-Xylene	0.0974	0.0050	"	0.100	ND	97.4	70-130	16.7	30	
1,2,4-Trimethylbenzene	0.112	0.0050	"	0.100	ND	112	70-130	8.58	30	
1,3,5-Trimethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130	14.6	30	
Naphthalene	0.105	0.0038	"	0.100	ND	105	70-130	0.486	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0372</i>		<i>"</i>	<i>0.0400</i>		<i>93.0</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0410</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.4</i>	<i>50-150</i>			

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Project: Civitas - Aristocrat 42-4C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/30/24 11:57

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
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Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BGK0771 - EPA 3550A

Blank (BGK0771-BLK1)

Prepared: 11/20/23 Analyzed: 11/22/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	11.3		"	12.5	90.8	30-150					

LCS (BGK0771-BS1)

Prepared: 11/20/23 Analyzed: 11/22/23

C10-C28 (DRO)	643	50	mg/kg	500	129	70-130					
Surrogate: <i>o</i> -Terphenyl	11.5		"	12.5	92.3	30-150					

Matrix Spike (BGK0771-MS1)

Source: 2311374-03

Prepared: 11/20/23 Analyzed: 11/22/23

C10-C28 (DRO)	627	50	mg/kg	500	97.4	106	70-130				
Surrogate: <i>o</i> -Terphenyl	6.95		"	12.5	55.6	30-150					

Matrix Spike Dup (BGK0771-MSD1)

Source: 2311374-03

Prepared: 11/20/23 Analyzed: 11/22/23

C10-C28 (DRO)	692	50	mg/kg	500	97.4	119	70-130	9.78	20		
Surrogate: <i>o</i> -Terphenyl	7.60		"	12.5	60.8	30-150					

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Project: Civitas - Aristocrat 42-4C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/30/24 11:57

PAH by EPA Method 8270D SIM - Quality Control

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

Batch BGK0822 - EPA 5030 Soil MS

Blank (BGK0822-BLK1)

Prepared: 11/21/23 Analyzed: 11/23/23

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>	<i>0.0471</i>		"	<i>0.0333</i>		<i>141</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0330</i>		"	<i>0.0333</i>		<i>98.9</i>	<i>40-150</i>			

LCS (BGK0822-BS1)

Prepared: 11/21/23 Analyzed: 11/23/23

Acenaphthene	0.0267	0.00500	mg/kg	0.0333	80.1	31-137
Anthracene	0.0289	0.00500	"	0.0333	86.7	30-120
Benzo (a) anthracene	0.0333	0.00500	"	0.0333	99.9	30-120
Benzo (a) pyrene	0.0275	0.00500	"	0.0333	82.6	30-120
Benzo (b) fluoranthene	0.0283	0.00500	"	0.0333	84.8	30-120
Benzo (k) fluoranthene	0.0258	0.00500	"	0.0333	77.3	30-120
Chrysene	0.0278	0.00500	"	0.0333	83.4	30-120
Dibenz (a,h) anthracene	0.0283	0.00500	"	0.0333	84.9	30-120
Fluoranthene	0.0270	0.00500	"	0.0333	81.1	30-120
Fluorene	0.0263	0.00500	"	0.0333	78.8	30-120
Indeno (1,2,3-cd) pyrene	0.0252	0.00500	"	0.0333	75.6	30-120
Pyrene	0.0287	0.00500	"	0.0333	86.0	35-142
1-Methylnaphthalene	0.0359	0.00500	"	0.0333	108	35-142
2-Methylnaphthalene	0.0252	0.00500	"	0.0333	75.5	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0433</i>		"	<i>0.0333</i>	<i>130</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0279</i>		"	<i>0.0333</i>	<i>83.7</i>	<i>40-150</i>

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Project: Civitas - Aristocrat 42-4C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/30/24 11:57

PAH by EPA Method 8270D SIM - Quality Control

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

Batch BGK0822 - EPA 5030 Soil MS

Matrix Spike (BGK0822-MS1)

Source: 2311392-01

Prepared: 11/21/23 Analyzed: 11/23/23

Acenaphthene	0.0221	0.00500	mg/kg	0.0333	ND	66.3	31-137			
Anthracene	0.0234	0.00500	"	0.0333	ND	70.1	30-120			
Benzo (a) anthracene	0.0276	0.00500	"	0.0333	ND	82.8	30-120			
Benzo (a) pyrene	0.0232	0.00500	"	0.0333	ND	69.5	30-120			
Benzo (b) fluoranthene	0.0239	0.00500	"	0.0333	ND	71.7	30-120			
Benzo (k) fluoranthene	0.0216	0.00500	"	0.0333	ND	64.9	30-120			
Chrysene	0.0231	0.00500	"	0.0333	ND	69.4	30-120			
Dibenz (a,h) anthracene	0.0231	0.00500	"	0.0333	ND	69.4	30-120			
Fluoranthene	0.0225	0.00500	"	0.0333	ND	67.5	30-120			
Fluorene	0.0214	0.00500	"	0.0333	ND	64.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0208	0.00500	"	0.0333	ND	62.5	30-120			
Pyrene	0.0241	0.00500	"	0.0333	ND	72.3	35-142			
1-Methylnaphthalene	0.0274	0.00500	"	0.0333	ND	82.1	15-130			
2-Methylnaphthalene	0.0136	0.00500	"	0.0333	ND	40.8	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0327		"	0.0333		98.0	40-150			
Surrogate: Fluoranthene-d10	0.0229		"	0.0333		68.7	40-150			

Matrix Spike Dup (BGK0822-MSD1)

Source: 2311392-01

Prepared: 11/21/23 Analyzed: 11/23/23

Acenaphthene	0.0227	0.00500	mg/kg	0.0333	ND	68.0	31-137	2.48	30
Anthracene	0.0235	0.00500	"	0.0333	ND	70.4	30-120	0.474	30
Benzo (a) anthracene	0.0286	0.00500	"	0.0333	ND	85.8	30-120	3.46	30
Benzo (a) pyrene	0.0243	0.00500	"	0.0333	ND	72.8	30-120	4.66	30
Benzo (b) fluoranthene	0.0250	0.00500	"	0.0333	ND	75.1	30-120	4.66	30
Benzo (k) fluoranthene	0.0227	0.00500	"	0.0333	ND	68.2	30-120	4.95	30
Chrysene	0.0240	0.00500	"	0.0333	ND	72.0	30-120	3.69	30
Dibenz (a,h) anthracene	0.0242	0.00500	"	0.0333	ND	72.7	30-120	4.65	30
Fluoranthene	0.0226	0.00500	"	0.0333	ND	67.9	30-120	0.638	30
Fluorene	0.0219	0.00500	"	0.0333	ND	65.6	30-120	2.31	30
Indeno (1,2,3-cd) pyrene	0.0217	0.00500	"	0.0333	ND	65.2	30-120	4.17	30
Pyrene	0.0250	0.00500	"	0.0333	ND	75.1	35-142	3.76	30
1-Methylnaphthalene	0.0299	0.00500	"	0.0333	ND	89.8	15-130	9.03	50
2-Methylnaphthalene	0.0216	0.00500	"	0.0333	ND	64.7	15-130	45.4	50
Surrogate: 2-Methylnaphthalene-d10	0.0343		"	0.0333		103	40-150		
Surrogate: Fluoranthene-d10	0.0231		"	0.0333		69.4	40-150		

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

Project: Civitas - Aristocrat 42-4C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/30/24 11:57

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

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

Batch BGK1008 - EPA 3050B

Blank (BGK1008-BLK1)

Prepared: 11/28/23 Analyzed: 11/29/23

Boron ND 2.00 mg/L

LCS (BGK1008-BS1)

Prepared: 11/28/23 Analyzed: 11/29/23

Boron 5.29 2.00 mg/L 5.00 106 80-120

Duplicate (BGK1008-DUP1)

Source: 2311401-01

Prepared: 11/28/23 Analyzed: 11/29/23

Boron 0.191 2.00 mg/L 0.193 1.19 20

Matrix Spike (BGK1008-MS1)

Source: 2311401-01

Prepared: 11/28/23 Analyzed: 11/29/23

Boron 5.32 2.00 mg/L 5.00 0.193 102 75-125

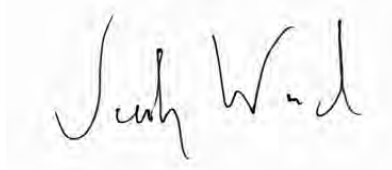
Matrix Spike Dup (BGK1008-MSD1)

Source: 2311401-01

Prepared: 11/28/23 Analyzed: 11/29/23

Boron 5.47 2.00 mg/L 5.00 0.193 106 75-125 2.86 25

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Broomfield CO, 80020

Project: Civitas - Aristocrat 42-4C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/30/24 11:57

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 BHA0908 - EPA 3050B

Blank (BHA0908-BLK1)

Prepared: 01/25/24 Analyzed: 01/26/24

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 (BHA0908-BS1)

Prepared: 01/25/24 Analyzed: 01/26/24

Arsenic	40.5	0.200	mg/kg wet	40.0	101	80-120
Barium	40.1	0.400	"	40.0	100	80-120
Cadmium	2.04	0.200	"	2.00	102	80-120
Copper	40.7	0.400	"	40.0	102	80-120
Lead	20.1	0.200	"	20.0	100	80-120
Nickel	40.4	0.400	"	40.0	101	80-120
Silver	2.06	0.0200	"	2.00	103	80-120
Zinc	41.3	0.400	"	40.0	103	80-120
Selenium	4.26	0.260	"	4.00	106	80-120

Duplicate (BHA0908-DUP1)

Source: 2311401-01

Prepared: 01/25/24 Analyzed: 01/26/24

Arsenic	1.45	0.200	mg/kg dry	1.60	9.33	20
Barium	42.7	0.400	"	41.7	2.37	20
Cadmium	0.158	0.200	"	0.179	13.0	20
Copper	8.20	0.400	"	8.47	3.15	20
Lead	26.5	0.200	"	28.5	7.34	20
Nickel	2.97	0.400	"	2.74	8.24	20
Silver	0.0223	0.0200	"	0.0223	0.00	20
Zinc	26.3	0.400	"	27.8	5.51	20
Selenium	ND	0.260	"	ND		20

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Project: Civitas - Aristocrat 42-4C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/30/24 11:57

Total Metals by EPA 6020B - Quality Control
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Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch BHA0908 - EPA 3050B

Matrix Spike (BHA0908-MS1)

Source: 2311401-01

Prepared: 01/25/24 Analyzed: 01/26/24

Arsenic	43.3	0.200	mg/kg dry	43.8	1.60	95.3	75-125			
Barium	80.7	0.400	"	43.8	41.7	89.3	75-125			
Cadmium	2.27	0.200	"	2.19	0.179	95.4	75-125			
Copper	41.9	0.400	"	43.8	8.47	76.5	75-125			
Lead	52.9	0.200	"	21.9	28.5	111	75-125			
Nickel	34.8	0.400	"	43.8	2.74	73.3	75-125			QM-07
Silver	2.08	0.0200	"	2.19	0.0223	94.1	75-125			
Zinc	63.6	0.400	"	43.8	27.8	81.7	75-125			
Selenium	3.90	0.260	"	4.38	ND	89.1	75-125			

Matrix Spike Dup (BHA0908-MSD1)

Source: 2311401-01

Prepared: 01/25/24 Analyzed: 01/26/24

Arsenic	43.7	0.200	mg/kg dry	43.8	1.60	96.2	75-125	0.932	25
Barium	81.7	0.400	"	43.8	41.7	91.4	75-125	1.15	25
Cadmium	2.33	0.200	"	2.19	0.179	98.1	75-125	2.61	25
Copper	43.1	0.400	"	43.8	8.47	79.1	75-125	2.63	25
Lead	53.5	0.200	"	21.9	28.5	114	75-125	1.09	25
Nickel	35.8	0.400	"	43.8	2.74	75.6	75-125	2.92	25
Silver	2.10	0.0200	"	2.19	0.0223	95.0	75-125	0.941	25
Zinc	65.1	0.400	"	43.8	27.8	85.2	75-125	2.39	25
Selenium	3.91	0.260	"	4.38	ND	89.3	75-125	0.146	25

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Project: Civitas - Aristocrat 42-4C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/30/24 11:57

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHA0846 - 3060A Mod

Blank (BHA0846-BLK1)

Prepared & Analyzed: 01/24/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHA0846-BS1)

Prepared & Analyzed: 01/24/24

Chromium, Hexavalent 22.6 0.30 mg/kg wet 25.0 90.6 80-120

Duplicate (BHA0846-DUP1)

Source: 2311401-01

Prepared & Analyzed: 01/24/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHA0846-MS1)

Source: 2311401-01

Prepared & Analyzed: 01/24/24

Chromium, Hexavalent 25.2 0.30 mg/kg dry 27.4 ND 92.2 75-125

Matrix Spike Dup (BHA0846-MSD1)

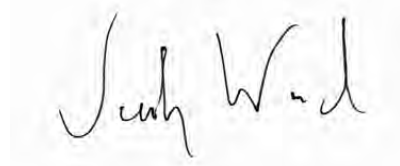
Source: 2311401-01

Prepared & Analyzed: 01/24/24

Chromium, Hexavalent 25.3 0.30 mg/kg dry 27.4 ND 92.4 75-125 0.217 20

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Project: Civitas - Aristocrat 42-4C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/30/24 11:57

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 BGL0058 - General Preparation

Blank (BGL0058-BLK1)

Prepared: 12/01/23 Analyzed: 12/06/23

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

LCS (BGL0058-BS1)

Prepared: 12/01/23 Analyzed: 12/06/23

Calcium	5.26	0.0500	mg/L wet	5.00		105	70-130			
Magnesium	5.08	0.0500	"	5.00		102	70-130			
Sodium	4.59	0.0500	"	5.00		91.9	70-130			

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

Project: Civitas - Aristocrat 42-4C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/30/24 11:57

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 BGK1058 - General Preparation

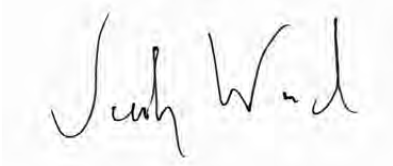
Duplicate (BGK1058-DUP1)

Source: 2311401-01

Prepared & Analyzed: 11/29/23

% Solids	90.9		%		91.4			0.577		20	
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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.



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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			Limits	RPD	Limit		

Batch BGL0116 - General Preparation

Blank (BGL0116-BLK1)

Prepared & Analyzed: 12/04/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGL0116-BS1)

Prepared & Analyzed: 12/04/23

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 102 95-105

Duplicate (BGL0116-DUP1)

Source: 2311393-01

Prepared & Analyzed: 12/04/23

Specific Conductance (EC) 0.597 0.0100 mmhos/cm 0.603 0.933 20

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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 BGL0115 - General Preparation

LCS (BGL0115-BS1)

Prepared & Analyzed: 12/04/23

pH 9.14 pH Units 9.18 99.6 95-105

Duplicate (BGL0115-DUP1)

Source: 2311393-01

Prepared & Analyzed: 12/04/23

pH 8.30 pH Units 8.41 1.32 20

Batch BGL0776 - General Preparation

LCS (BGL0776-BS1)

Prepared & Analyzed: 12/20/23

pH 9.16 pH Units 9.18 99.8 95-105

Duplicate (BGL0776-DUP1)

Source: 2311045-03RE1

Prepared & Analyzed: 12/20/23

pH 7.82 pH Units 7.88 0.764 20

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Reported:
01/30/24 11:57

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- 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