

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 20, 2024

Sam Vogt

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Civitas - Aristocrat Angus 41-10C

Work Order #2311627

Enclosed are the results of analyses for samples received by Summit Scientific on 11/30/23 17:55. 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 a distinct "W".

Jacob Wood For Paul Shrewsbury

President



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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
 Project Manager: Sam Vogt

Reported:
 03/20/24 14:41

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| FL-B02@4' | 2311627-01 | Soil | 11/30/23 09:51 | 11/30/23 17:55 |
| FL-B03@4' | 2311627-02 | Soil | 11/30/23 09:55 | 11/30/23 17:55 |
| FL-B04@4' | 2311627-03 | Soil | 11/30/23 09:57 | 11/30/23 17:55 |
| FL-B05@4' | 2311627-04 | Soil | 11/30/23 09:59 | 11/30/23 17:55 |
| SP-CS02 | 2311627-05 | Soil | 11/30/23 10:13 | 11/30/23 17:55 |
| SP-CS03 | 2311627-06 | Soil | 11/30/23 10:42 | 11/30/23 17:55 |
| FL-B14@3' | 2311627-07 | Soil | 11/30/23 12:04 | 11/30/23 17:55 |
| FL-B15@3' | 2311627-08 | Soil | 11/30/23 12:05 | 11/30/23 17:55 |
| FL-B16@3' | 2311627-09 | Soil | 11/30/23 12:09 | 11/30/23 17:55 |
| SP-CS04 | 2311627-10 | Soil | 11/30/23 12:11 | 11/30/23 17:55 |
| FL-B17@3' | 2311627-11 | Soil | 11/30/23 13:08 | 11/30/23 17:55 |
| FL-B18@3' | 2311627-12 | Soil | 11/30/23 13:12 | 11/30/23 17:55 |
| FL-B19@3' | 2311627-13 | Soil | 11/30/23 13:14 | 11/30/23 17:55 |
| FL-B20@3' | 2311627-14 | Soil | 11/30/23 13:17 | 11/30/23 17:55 |
| FL-B21@3' | 2311627-15 | Soil | 11/30/23 13:21 | 11/30/23 17:55 |
| SP-CS05 | 2311627-16 | Soil | 11/30/23 13:28 | 11/30/23 17:55 |
| FL-GW01 | 2311627-17 | Water | 11/30/23 11:24 | 11/30/23 17:55 |
| FL-GW02 | 2311627-18 | Water | 11/30/23 11:35 | 11/30/23 17:55 |
| FL-GW03 | 2311627-19 | Water | 11/30/23 11:50 | 11/30/23 17:55 |
| FL-GW04 | 2311627-20 | Water | 11/30/23 12:17 | 11/30/23 17:55 |
| FL-GW05 | 2311627-21 | Water | 11/30/23 12:34 | 11/30/23 17:55 |
| FL-GW06 | 2311627-22 | Water | 11/30/23 12:54 | 11/30/23 17:55 |
| FL-GW07 | 2311627-23 | Water | 11/30/23 13:03 | 11/30/23 17:55 |

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

Case Narrative

Tracey Smith requested Metals be added to all soil samples on 2/5/2024.
This report includes those results.

Summit Scientific

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| | | |
|--------------------------------------|---|-------------------------|
| 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: <u>Anistocad Angus 91-10C</u> | PO/Billing Codes: |
| Sampler Name: <u>Daniel Hense</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 TMB's | TPH(GRO,DRO,ORO) | PAH | pH,EC,SAR | | Boron |
| 1 | FL-B0204 | 11/30/23 | 9:51 | 2 | | | X | | | X | | | X | X | X | X | X | X | metals on hold |
| 2 | FL-B0304 | | 9:55 | | | | | | | | | | | | | | | | |
| 3 | FL-B0404 | | 9:57 | | | | | | | | | | | | | | | | |
| 4 | FL-B0504 | | 9:59 | | | | | | | | | | | | | | | | |
| 5 | SP-C502 | | 10:13 | | | | | | | | | | | | | | | | |
| 6 | SP-C503 | | 10:42 | | | | | | | | | | | | | | | | |
| 7 | FL-B1403 | | 12:04 | | | | | | | | | | | | | | | | |
| 8 | FL-B1503 | | 12:05 | | | | | | | | | | | | | | | | |
| 9 | FL-B1603 | | 12:09 | | | | | | | | | | | | | | | | |
| 10 | SP-C504 | | 12:11 | | | | | | | | | | | | | | | | |
| 11 | FL-B1703 | | 13:08 | | | | | | | | | | | | | | | | |
| 12 | FL-B1603 | | 13:12 | | | | | | | | | | | | | | | | |
| 13 | FL-B1903 | | 13:14 | | | | | | | | | | | | | | | | |
| 14 | FL-B2003 | | 13:17 | | | | | | | | | | | | | | | | |
| 15 | FL-B2103 FL-B2103 | | 13:21 | | | | | | | | | | | | | | | | |

| | | | | | | |
|---------------------------------------|------------------------------------|---------------------------------|----------------------------------|-------------------|---|---------------------------------|
| Relinquished by: <u>CHM</u> | Date/Time: <u>11/30/23 16:30</u> | Received by: <u>CHM</u> | Date/Time: <u>11/30/23 16:30</u> | TAT Business Days | Field DO | Notes: <u>metals on hold</u> |
| Relinquished by: <u>Tasman/CHM</u> | Date/Time: <u>11/30/23 17:55</u> | Received by: <u>[Signature]</u> | Date/Time: <u>11/30/23 17:55</u> | Same Day | Field EC | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 1 Day | Field ORP | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 2 Days | Field pH | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 3 Days | Field Temp. | |
| Temperature Upon Receipt: <u>11.7</u> | Corrected Temperature: <u>11.7</u> | IR gun #: | HNO3 lot #: | Standard | <input checked="" type="checkbox"/> Field Turb. | |



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

| | |
|-----------|---------------------------|
| Lab ID | Page <u>2</u> of <u>2</u> |
| 2311627.2 | |

| | | |
|--------------------------------------|--|-------------------------|
| 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: <u>Aristocrat Angus 41-10C</u> | PO/Billing Codes: |
| Sampler Name: <u>Daniel Hensel</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 TMB's | TPH(GRO,DRO,ORO) | PAH | pH,EC,SAR | | Boron | Metals | |
| 1 | <u>SP-GW05</u> | <u>11/30/23</u> | <u>13:26</u> | <u>2</u> | | | <u>X</u> | | | | | | | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>metals on Hold</u> | |
| 2 | <u>FL-GW01</u> | | <u>11:24</u> | <u>3</u> | <u>X</u> | | | | <u>X</u> | | | | | <u>X</u> | <u>X</u> | | | | | | |
| 3 | <u>FL-GW02</u> | | <u>11:35</u> | | | | | | | | | | | | | | | | | | |
| 4 | <u>FL-GW03</u> | | <u>11:30</u> | | | | | | | | | | | | | | | | | | |
| 5 | <u>FL-GW04</u> | | <u>12:17</u> | | | | | | | | | | | | | | | | | | |
| 6 | <u>FL-GW05</u> | | <u>12:39</u> | | | | | | | | | | | | | | | | | | |
| 7 | <u>FL-GW06</u> | | <u>12:54</u> | | | | | | | | | | | | | | | | | | |
| 8 | <u>FL-GW07</u> | | <u>13:03</u> | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|---------------------------------------|----------------------------------|------------------------|----------------------------------|-------------------|----------------------|---------------------------------|
| Relinquished by: <u>PH</u> | Date/Time: <u>11/30/23 16:30</u> | Received by: <u>PH</u> | Date/Time: <u>16:30</u> | TAT Business Days | Field DO | Notes: <u>metals on Hold</u> |
| Relinquished by: <u>Tasman</u> | Date/Time: <u>11/30/23 17:55</u> | Received by: <u>PH</u> | Date/Time: <u>11/30/23 17:55</u> | Same Day | Field EC | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 1 Day | Field ORP | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 2 Days | Field pH | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 3 Days | Field Temp. | |
| Temperature Upon Receipt: <u>11.7</u> | Corrected Temperature: <u>8</u> | IR gun #: | | Standard | <u>X</u> Field Turb. | |
| | | | | HNO3 lot #: | | |

S₂

2/2

Sample Receipt Checklist

S2 Work Order# 2311627

Client: Caritas Tushman

Client Project ID: Ariscourt Angus 41-10C

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

Airbill #: _____

Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C) 11.7

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 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 on soils |
| For volatiles in water - is there headspace present? If yes, contact client and note in narrative. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input 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 checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | HCl |
| 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

11/30/23

Date/Time



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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B02@4'
2311627-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 09:51**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BGL0152 | 12/05/23 | 12/06/23 | 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: **11/30/23 09:51**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0427 | 107 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0427 | 107 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0404 | 101 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/23 09:51**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BGL0158 | 12/05/23 | 12/08/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **11/30/23 09:51**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | 12.5 | 99.9 % | | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B02@4'
2311627-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/30/23 09:51**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BGL0252 | 12/07/23 | 12/08/23 | 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: **11/30/23 09:51**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0183 | 55.0 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0161 | 48.2 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/30/23 09:51**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BGL0350 | 12/10/23 | 12/15/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **11/30/23 09:51**

| 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 Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B02@4'
2311627-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 1.17 | 0.200 | mg/kg dry | 1 | BHB0464 | 02/14/24 | 02/15/24 | EPA 6020B | |
| Barium | 39.5 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 2.32 | 0.400 | " | " | " | " | " | " | |
| Lead | 5.33 | 0.200 | " | " | " | " | " | " | |
| Nickel | 2.34 | 0.400 | " | " | " | " | " | " | |
| Silver | ND | 0.0200 | " | " | " | " | " | " | |
| Zinc | 9.60 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/30/23 09:51**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHB0166 | 02/06/24 | 02/06/24 | EPA 7196A | I-04 |

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

Date Sampled: **11/30/23 09:51**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 78.7 | 0.0500 | mg/L dry | 1 | BGL0547 | 12/14/23 | 12/21/23 | EPA 6020B | |
| Magnesium | 20.1 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 1.05 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **11/30/23 09:51**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0273 | 0.00100 | units | 1 | BGL0831 | 12/21/23 | 12/21/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B02@4'
2311627-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/30/23 09:51**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | | | | | | | | |
| % Solids | 92.6 | | | % | 1 | BGL0405 | 12/12/23 | 12/12/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/30/23 09:51**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Specific Conductance (EC) | 0.0344 | 0.0100 | | mmhos/cm | 1 | BGL0634 | 12/18/23 | 12/19/23 | EPA 120.1 | |

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

Date Sampled: **11/30/23 09:51**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| pH | 8.09 | | | pH Units | 1 | BGL0633 | 12/18/23 | 12/19/23 | EPA 9045D | |

Summit Scientific

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



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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B03@4'
2311627-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 09:55**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | BGL0152 | 12/05/23 | 12/06/23 | 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: **11/30/23 09:55**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0427 | 107 % | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0422 | 106 % | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0396 | 99.0 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/23 09:55**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BGL0158 | 12/05/23 | 12/08/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **11/30/23 09:55**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 7.14 | 57.2 % | 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 Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B03@4'
2311627-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/30/23 09:55**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------------|---------------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BGL0252 | 12/07/23 | 12/08/23 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) anthracene | 0.0161 | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) pyrene | 0.0119 | 0.00500 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | 0.0118 | 0.00500 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Chrysene | 0.0139 | 0.00500 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluoranthene | 0.0222 | 0.00500 | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Pyrene | 0.0239 | 0.00500 | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **11/30/23 09:55**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0296 | 88.9 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0248 | 74.3 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/30/23 09:55**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BGL0350 | 12/10/23 | 12/15/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **11/30/23 09:55**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

Summit Scientific

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



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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B03@4'
2311627-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 1.34 | 0.200 | mg/kg dry | 1 | BHB0464 | 02/14/24 | 02/16/24 | EPA 6020B | |
| Barium | 52.6 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 2.29 | 0.400 | " | " | " | " | " | " | |
| Lead | 4.49 | 0.200 | " | " | " | " | " | " | |
| Nickel | 2.25 | 0.400 | " | " | " | " | " | " | |
| Silver | ND | 0.0200 | " | " | " | " | " | " | |
| Zinc | 9.85 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/30/23 09:55

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHB0166 | 02/06/24 | 02/06/24 | EPA 7196A | I-04 |

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

Date Sampled: 11/30/23 09:55

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 73.0 | 0.0500 | mg/L dry | 1 | BGL0547 | 12/14/23 | 12/21/23 | EPA 6020B | |
| Magnesium | 15.0 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 0.480 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: 11/30/23 09:55

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0134 | 0.00100 | units | 1 | BGL0831 | 12/21/23 | 12/21/23 | 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 Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B03@4'
2311627-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/30/23 09:55**

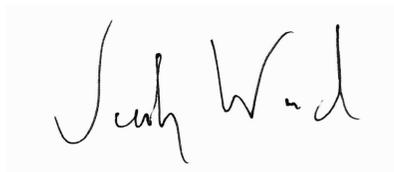
| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | | | | | | | | |
| % Solids | 93.5 | | | % | 1 | BGL0405 | 12/12/23 | 12/12/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/30/23 09:55**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Specific Conductance (EC) | 0.0655 | 0.0100 | | mmhos/cm | 1 | BGL0634 | 12/18/23 | 12/19/23 | EPA 120.1 | |

Summit Scientific



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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
 Project Manager: Sam Vogt

Reported:
 03/20/24 14:41

FL-B03@4'
2311627-02 (Soil)

Summit Scientific

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

Date Sampled: **11/30/23 09:55**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| pH | 8.36 | | pH Units | 1 | BHB0056 | 12/18/23 | 02/02/24 | EPA 9045D | I-04 |

Summit Scientific



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



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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B04@4'
2311627-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 09:57**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BGL0152 | 12/05/23 | 12/06/23 | 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: **11/30/23 09:57**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0337 | 84.3 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0422 | 106 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0387 | 96.7 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/23 09:57**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BGL0158 | 12/05/23 | 12/08/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **11/30/23 09:57**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | 8.69 | 69.6 % | | 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 Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B04@4'
2311627-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/30/23 09:57**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BGL0252 | 12/07/23 | 12/08/23 | 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: **11/30/23 09:57**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0267 | 80.1 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0215 | 64.4 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/30/23 09:57**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BGL0350 | 12/10/23 | 12/15/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **11/30/23 09:57**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B04@4'
2311627-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 1.09 | 0.200 | mg/kg dry | 1 | BHB0464 | 02/14/24 | 02/16/24 | EPA 6020B | |
| Barium | 37.9 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 2.49 | 0.400 | " | " | " | " | " | " | |
| Lead | 5.17 | 0.200 | " | " | " | " | " | " | |
| Nickel | 2.24 | 0.400 | " | " | " | " | " | " | |
| Silver | ND | 0.0200 | " | " | " | " | " | " | |
| Zinc | 9.65 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/30/23 09:57

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHB0166 | 02/06/24 | 02/06/24 | EPA 7196A | I-04 |

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

Date Sampled: 11/30/23 09:57

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 33.8 | 0.0500 | mg/L dry | 1 | BGL0547 | 12/14/23 | 12/21/23 | EPA 6020B | |
| Magnesium | 10.4 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 0.732 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: 11/30/23 09:57

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0282 | 0.00100 | units | 1 | BGL0831 | 12/21/23 | 12/21/23 | 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 Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B04@4'
2311627-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/30/23 09:57**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | | | | | | | | |
| % Solids | 97.0 | | | % | 1 | BGL0405 | 12/12/23 | 12/12/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/30/23 09:57**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Specific Conductance (EC) | 0.0391 | 0.0100 | | mmhos/cm | 1 | BGL0634 | 12/18/23 | 12/19/23 | EPA 120.1 | |

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

Date Sampled: **11/30/23 09:57**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| pH | 7.60 | | | pH Units | 1 | BGL0633 | 12/18/23 | 12/19/23 | EPA 9045D | |

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B05@4'
2311627-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 09:59**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BGL0152 | 12/05/23 | 12/06/23 | 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: **11/30/23 09:59**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0418 | 105 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0416 | 104 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0400 | 100 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/23 09:59**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BGL0158 | 12/05/23 | 12/08/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **11/30/23 09:59**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | 9.66 | 77.3 % | | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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



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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B05@4'
2311627-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/30/23 09:59**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------------|---------------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BGL0252 | 12/07/23 | 12/08/23 | EPA 8270D SIM | |
| Anthracene | 0.0174 | 0.00500 | " | " | " | " | " | " | " |
| Benzo (a) anthracene | 0.0703 | 0.00500 | " | " | " | " | " | " | " |
| Benzo (a) pyrene | 0.0634 | 0.00500 | " | " | " | " | " | " | " |
| Benzo (b) fluoranthene | 0.0545 | 0.00500 | " | " | " | " | " | " | " |
| Benzo (k) fluoranthene | 0.0183 | 0.00500 | " | " | " | " | " | " | " |
| Chrysene | 0.0658 | 0.00500 | " | " | " | " | " | " | " |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | " | " | " | " | " | " |
| Fluoranthene | 0.0900 | 0.00500 | " | " | " | " | " | " | " |
| Fluorene | ND | 0.00500 | " | " | " | " | " | " | " |
| Indeno (1,2,3-cd) pyrene | 0.0282 | 0.00500 | " | " | " | " | " | " | " |
| Pyrene | 0.0979 | 0.00500 | " | " | " | " | " | " | " |
| 1-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | " |
| 2-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | " |

Date Sampled: **11/30/23 09:59**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0255 | 76.4 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0240 | 72.0 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/30/23 09:59**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BGL0350 | 12/10/23 | 12/15/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **11/30/23 09:59**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

Summit Scientific

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



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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B05@4'
2311627-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 1.21 | 0.200 | mg/kg dry | 1 | BHB0464 | 02/14/24 | 02/16/24 | EPA 6020B | |
| Barium | 41.5 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 2.41 | 0.400 | " | " | " | " | " | " | |
| Lead | 3.91 | 0.200 | " | " | " | " | " | " | |
| Nickel | 2.38 | 0.400 | " | " | " | " | " | " | |
| Silver | 0.0224 | 0.0200 | " | " | " | " | " | " | |
| Zinc | 9.50 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/30/23 09:59

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHB0166 | 02/06/24 | 02/06/24 | EPA 7196A | I-04 |

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

Date Sampled: 11/30/23 09:59

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 37.8 | 0.0500 | mg/L dry | 1 | BGL0547 | 12/14/23 | 12/21/23 | EPA 6020B | |
| Magnesium | 9.68 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 2.35 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: 11/30/23 09:59

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0883 | 0.00100 | units | 1 | BGL0831 | 12/21/23 | 12/21/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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



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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B05@4'
2311627-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/30/23 09:59**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | | | | | | | | |
| % Solids | 96.3 | | | % | 1 | BGL0405 | 12/12/23 | 12/12/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/30/23 09:59**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Specific Conductance (EC) | 0.0623 | 0.0100 | | mmhos/cm | 1 | BGL0634 | 12/18/23 | 12/19/23 | EPA 120.1 | |

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

Date Sampled: **11/30/23 09:59**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| pH | 6.93 | | | pH Units | 1 | BGL0633 | 12/18/23 | 12/19/23 | EPA 9045D | |

Summit Scientific

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



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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

SP-CS02
2311627-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 10:13**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | BGL0152 | 12/05/23 | 12/06/23 | 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: **11/30/23 10:13**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0413 | 103 % | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0426 | 106 % | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0393 | 98.2 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/23 10:13**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BGL0158 | 12/05/23 | 12/08/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **11/30/23 10:13**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 8.06 | 64.5 % | 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 Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

SP-CS02
2311627-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/30/23 10:13**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BGL0252 | 12/07/23 | 12/08/23 | 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: **11/30/23 10:13**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0354 | 106 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0275 | 82.5 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/30/23 10:13**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BGL0350 | 12/10/23 | 12/15/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **11/30/23 10:13**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

SP-CS02
2311627-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 1.14 | 0.200 | mg/kg dry | 1 | BHB0464 | 02/14/24 | 02/16/24 | EPA 6020B | |
| Barium | 37.4 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 2.77 | 0.400 | " | " | " | " | " | " | |
| Lead | 14.9 | 0.200 | " | " | " | " | " | " | |
| Nickel | 2.26 | 0.400 | " | " | " | " | " | " | |
| Silver | ND | 0.0200 | " | " | " | " | " | " | |
| Zinc | 22.8 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/30/23 10:13

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHB0166 | 02/06/24 | 02/06/24 | EPA 7196A | I-04 |

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

Date Sampled: 11/30/23 10:13

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 33.6 | 0.0500 | mg/L dry | 1 | BGL0547 | 12/14/23 | 12/21/23 | EPA 6020B | |
| Magnesium | 9.11 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 0.697 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: 11/30/23 10:13

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0275 | 0.00100 | units | 1 | BGL0831 | 12/21/23 | 12/21/23 | 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 Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

SP-CS02
2311627-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/30/23 10:13**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | | | | | | | | |
| % Solids | 96.5 | | | % | 1 | BGL0405 | 12/12/23 | 12/12/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/30/23 10:13**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Specific Conductance (EC) | 0.0358 | 0.0100 | | mmhos/cm | 1 | BGL0634 | 12/18/23 | 12/19/23 | EPA 120.1 | |

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

Date Sampled: **11/30/23 10:13**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| pH | 7.86 | | | pH Units | 1 | BGL0633 | 12/18/23 | 12/19/23 | EPA 9045D | |

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

SP-CS03
2311627-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 10:42**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BGL0152 | 12/05/23 | 12/06/23 | 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: **11/30/23 10:42**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0414 | 104 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0418 | 104 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0394 | 98.5 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/23 10:42**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BGL0158 | 12/05/23 | 12/08/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **11/30/23 10:42**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | 13.6 | 109 % | | 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 Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

SP-CS03
2311627-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/30/23 10:42**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------------|----------------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BGL0252 | 12/07/23 | 12/08/23 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | " | " | " | " | " | " | " |
| Benzo (a) anthracene | 0.00505 | 0.00500 | " | " | " | " | " | " | " |
| Benzo (a) pyrene | 0.00611 | 0.00500 | " | " | " | " | " | " | " |
| Benzo (b) fluoranthene | 0.00608 | 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: **11/30/23 10:42**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0334 | 100 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0304 | 91.2 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/30/23 10:42**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BGL0350 | 12/10/23 | 12/15/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **11/30/23 10:42**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

Summit Scientific

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



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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

SP-CS03
2311627-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 1.16 | 0.200 | mg/kg dry | 1 | BHB0464 | 02/14/24 | 02/16/24 | EPA 6020B | |
| Barium | 30.3 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 2.11 | 0.400 | " | " | " | " | " | " | |
| Lead | 3.46 | 0.200 | " | " | " | " | " | " | |
| Nickel | 2.07 | 0.400 | " | " | " | " | " | " | |
| Silver | ND | 0.0200 | " | " | " | " | " | " | |
| Zinc | 8.54 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/30/23 10:42

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHB0166 | 02/06/24 | 02/06/24 | EPA 7196A | I-04 |

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

Date Sampled: 11/30/23 10:42

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 19.5 | 0.0500 | mg/L dry | 1 | BGL0547 | 12/14/23 | 12/21/23 | EPA 6020B | |
| Magnesium | 5.49 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 0.552 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: 11/30/23 10:42

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0284 | 0.00100 | units | 1 | BGL0831 | 12/21/23 | 12/21/23 | 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 Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

SP-CS03
2311627-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/30/23 10:42**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | | | | | | | | |
| % Solids | 97.8 | | | % | 1 | BGL0405 | 12/12/23 | 12/12/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/30/23 10:42**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Specific Conductance (EC) | 0.0414 | 0.0100 | | mmhos/cm | 1 | BGL0634 | 12/18/23 | 12/19/23 | EPA 120.1 | |

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

Date Sampled: **11/30/23 10:42**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| pH | 7.09 | | | pH Units | 1 | BGL0633 | 12/18/23 | 12/19/23 | EPA 9045D | |

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B14@3'
2311627-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 12:04**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------------|---------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | BGL0152 | 12/05/23 | 12/06/23 | EPA 8260B | |
| Toluene | 0.0078 | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | 0.050 | 0.010 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | 0.0057 | 0.0050 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | 0.0071 | 0.0050 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | " | " | " | " | " | |

Date Sampled: **11/30/23 12:04**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0400 | 100 % | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0419 | 105 % | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0403 | 101 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/23 12:04**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BGL0158 | 12/05/23 | 12/08/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **11/30/23 12:04**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 7.49 | 59.9 % | 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 Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B14@3'
2311627-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/30/23 12:04**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BGL0252 | 12/07/23 | 12/08/23 | 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: **11/30/23 12:04**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0243 | 72.9 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0212 | 63.6 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B

Date Sampled: **11/30/23 12:04**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------|-------------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 1.17 | 0.200 | mg/kg dry | 1 | BHB0464 | 02/14/24 | 02/16/24 | EPA 6020B | |
| Barium | 21.6 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 2.37 | 0.400 | " | " | " | " | " | " | |
| Lead | 4.55 | 0.200 | " | " | " | " | " | " | |
| Nickel | 1.83 | 0.400 | " | " | " | " | " | " | |
| Silver | ND | 0.0200 | " | " | " | " | " | " | |

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B14@3'
2311627-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-------|-----------|----------|---------|----------|----------|-----------|-------|
| Zinc | 8.86 | 0.400 | mg/kg dry | 1 | BHB0464 | 02/14/24 | 02/16/24 | EPA 6020B | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/30/23 12:04

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHB0166 | 02/06/24 | 02/06/24 | EPA 7196A | I-04 |

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

Date Sampled: 11/30/23 12:04

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 41.9 | 0.0500 | mg/L dry | 1 | BGL0547 | 12/14/23 | 12/21/23 | EPA 6020B | |
| Magnesium | 18.5 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 353 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: 11/30/23 12:04

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 11.4 | 0.00100 | units | 1 | BGL0831 | 12/21/23 | 12/21/23 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/30/23 12:04

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 79.8 | | % | 1 | BGL0405 | 12/12/23 | 12/12/23 | Calculation | |

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

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B14@3'
2311627-07 (Soil)

Summit Scientific

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

Date Sampled: **11/30/23 12:04**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| pH | 9.02 | | pH Units | 1 | BGL0633 | 12/18/23 | 12/19/23 | EPA 9045D | |

Summit Scientific



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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B14@3'
2311627-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/30/23 12:04**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|-------------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Boron | 2.87 | 2.00 | | mg/L | 1 | BHB0059 | 02/02/24 | 02/07/24 | EPA 6020B | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/30/23 12:04**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|-------------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Specific Conductance (EC) | 2.52 | 0.0100 | | mmhos/cm | 1 | BHB0594 | 02/19/24 | 02/19/24 | EPA 120.1 | I-04 |

Summit Scientific



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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B15@3'
2311627-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 12:05**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | 0.73 | 0.20 | | mg/kg | 100 | BGL0152 | 12/05/23 | 12/06/23 | EPA 8260B | |
| Toluene | 3.1 | 0.50 | | " | " | " | " | " | " | |
| Ethylbenzene | 0.40 | 0.0050 | | " | 1 | " | " | 12/06/23 | " | |
| Xylenes (total) | 3.4 | 1.0 | | " | 100 | " | " | 12/06/23 | " | |
| 1,2,4-Trimethylbenzene | 74 | 0.50 | | " | " | " | " | " | " | E |
| 1,3,5-Trimethylbenzene | 0.63 | 0.0050 | | " | 1 | " | " | 12/06/23 | " | |
| Naphthalene | 0.027 | 0.0038 | | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | 100 | 0.50 | | " | " | " | " | 12/06/23 | " | E |

Date Sampled: **11/30/23 12:05**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0377 | 94.2 % | | 50-150 | | " | " | 12/06/23 | " | |
| Surrogate: Toluene-d8 | 0.0423 | 106 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0774 | 194 % | | 50-150 | | " | " | " | " | E |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/23 12:05**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BGL0158 | 12/05/23 | 12/08/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **11/30/23 12:05**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | 5.95 | 47.6 % | | 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 Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B15@3'
2311627-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/30/23 12:05**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BGL0252 | 12/07/23 | 12/08/23 | 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: **11/30/23 12:05**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0151 | 45.3 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0153 | 46.0 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/30/23 12:05**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BGL0350 | 12/10/23 | 12/15/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **11/30/23 12:05**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

Summit Scientific

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



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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B15@3'
2311627-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 0.519 | 0.200 | mg/kg dry | 1 | BHB0464 | 02/14/24 | 02/16/24 | EPA 6020B | |
| Barium | 15.1 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 2.24 | 0.400 | " | " | " | " | " | " | |
| Lead | 4.99 | 0.200 | " | " | " | " | " | " | |
| Nickel | 1.47 | 0.400 | " | " | " | " | " | " | |
| Silver | ND | 0.0200 | " | " | " | " | " | " | |
| Zinc | 9.08 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/30/23 12:05

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHB0166 | 02/06/24 | 02/06/24 | EPA 7196A | I-04 |

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

Date Sampled: 11/30/23 12:05

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 50.3 | 0.0500 | mg/L dry | 1 | BGL0547 | 12/14/23 | 12/21/23 | EPA 6020B | |
| Magnesium | 11.8 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 250 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: 11/30/23 12:05

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 8.24 | 0.00100 | units | 1 | BGL0831 | 12/21/23 | 12/21/23 | 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 Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B15@3'
2311627-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/30/23 12:05**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|-------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 80.0 | | % | 1 | BGL0405 | 12/12/23 | 12/12/23 | Calculation | |

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

Date Sampled: **11/30/23 12:05**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.44 | | pH Units | 1 | BGL0633 | 12/18/23 | 12/19/23 | EPA 9045D | |

Summit Scientific



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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
 Project Manager: Sam Vogt

Reported:
 03/20/24 14:41

FL-B15@3'
2311627-08 (Soil)

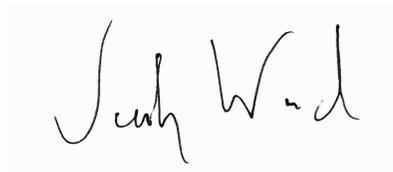
Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/30/23 12:05**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Specific Conductance (EC) | 2.22 | 0.0100 | mmhos/cm | 1 | BHB0594 | 02/19/24 | 02/19/24 | EPA 120.1 | I-04 |

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B16@3'
2311627-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 12:09**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | 0.14 | 0.0020 | mg/kg | 1 | BGL0152 | 12/05/23 | 12/06/23 | EPA 8260B | |
| Toluene | 0.25 | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | 0.27 | 0.010 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | 0.021 | 0.0050 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | 0.016 | 0.0050 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | 2.0 | 0.50 | " | " | " | " | " | " | |

Date Sampled: **11/30/23 12:09**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0400 | 100 % | 50-150 | | " | " | " | " | |
| <i>Surrogate: Toluene-d8</i> | 0.0415 | 104 % | 50-150 | | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0405 | 101 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/23 12:09**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BGL0158 | 12/05/23 | 12/08/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **11/30/23 12:09**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| <i>Surrogate: o-Terphenyl</i> | 7.06 | 56.4 % | 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 Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B16@3'
2311627-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/30/23 12:09**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BGL0252 | 12/07/23 | 12/08/23 | 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: **11/30/23 12:09**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0166 | 49.9 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0161 | 48.2 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/30/23 12:09**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BGL0350 | 12/10/23 | 12/15/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **11/30/23 12:09**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B16@3'
2311627-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 1.04 | 0.200 | mg/kg dry | 1 | BHB0464 | 02/14/24 | 02/16/24 | EPA 6020B | |
| Barium | 20.0 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 2.10 | 0.400 | " | " | " | " | " | " | |
| Lead | 4.25 | 0.200 | " | " | " | " | " | " | |
| Nickel | 1.71 | 0.400 | " | " | " | " | " | " | |
| Silver | ND | 0.0200 | " | " | " | " | " | " | |
| Zinc | 8.08 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/30/23 12:09

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHB0166 | 02/06/24 | 02/06/24 | EPA 7196A | I-04 |

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

Date Sampled: 11/30/23 12:09

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 96.5 | 0.0500 | mg/L dry | 1 | BGL0547 | 12/14/23 | 12/21/23 | EPA 6020B | |
| Magnesium | 27.2 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 288 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: 11/30/23 12:09

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 6.67 | 0.00100 | units | 1 | BGL0831 | 12/21/23 | 12/21/23 | 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 Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B16@3'
2311627-09 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/30/23 12:09**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|-------------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | | | | | | | | |
| % Solids | 80.4 | | | % | 1 | BGL0405 | 12/12/23 | 12/12/23 | Calculation | |

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

Date Sampled: **11/30/23 12:09**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| pH | 8.32 | | | pH Units | 1 | BGL0633 | 12/18/23 | 12/19/23 | EPA 9045D | |

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
 Project Manager: Sam Vogt

Reported:
 03/20/24 14:41

FL-B16@3'
2311627-09 (Soil)

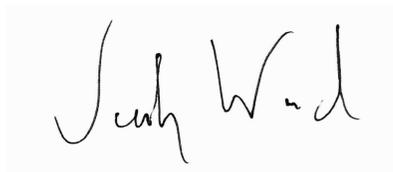
Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/30/23 12:09**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Specific Conductance (EC) | 1.66 | 0.0100 | mmhos/cm | 1 | BHB0594 | 02/19/24 | 02/19/24 | EPA 120.1 | I-04 |

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

SP-CS04
2311627-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 12:11**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BGL0152 | 12/05/23 | 12/06/23 | 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: **11/30/23 12:11**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0446 | 111 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0432 | 108 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0332 | 83.0 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/23 12:11**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BGL0158 | 12/05/23 | 12/08/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **11/30/23 12:11**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | 8.59 | 68.8 % | | 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 Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

SP-CS04
2311627-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/30/23 12:11**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BGL0252 | 12/07/23 | 12/08/23 | 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: **11/30/23 12:11**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0163 | 48.8 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0152 | 45.7 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/30/23 12:11**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BGL0350 | 12/10/23 | 12/15/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **11/30/23 12:11**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

SP-CS04
2311627-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 0.940 | 0.200 | mg/kg dry | 1 | BHB0464 | 02/14/24 | 02/16/24 | EPA 6020B | |
| Barium | 29.6 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 2.42 | 0.400 | " | " | " | " | " | " | |
| Lead | 3.66 | 0.200 | " | " | " | " | " | " | |
| Nickel | 2.22 | 0.400 | " | " | " | " | " | " | |
| Silver | ND | 0.0200 | " | " | " | " | " | " | |
| Zinc | 9.44 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/30/23 12:11

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHB0166 | 02/06/24 | 02/06/24 | EPA 7196A | I-04 |

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

Date Sampled: 11/30/23 12:11

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 69.7 | 0.0500 | mg/L dry | 1 | BGL0547 | 12/14/23 | 12/21/23 | EPA 6020B | |
| Magnesium | 18.8 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 299 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: 11/30/23 12:11

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 8.20 | 0.00100 | units | 1 | BGL0831 | 12/21/23 | 12/21/23 | 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 Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

SP-CS04
2311627-10 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/30/23 12:11**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 85.5 | | % | 1 | BGL0405 | 12/12/23 | 12/12/23 | Calculation | |

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

Date Sampled: **11/30/23 12:11**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.00 | | pH Units | 1 | BGL0633 | 12/18/23 | 12/19/23 | EPA 9045D | |

Summit Scientific



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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
 Project Manager: Sam Vogt

Reported:
 03/20/24 14:41

SP-CS04
2311627-10 (Soil)

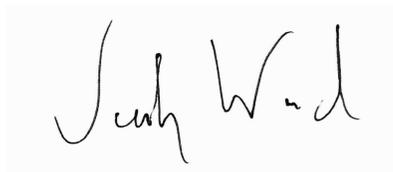
Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/30/23 12:11**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Specific Conductance (EC) | 2.69 | 0.0100 | mmhos/cm | 1 | BHB0594 | 02/19/24 | 02/19/24 | EPA 120.1 | I-04 |

Summit Scientific



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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B17@3'
2311627-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 13:08**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BGL0152 | 12/05/23 | 12/06/23 | 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: **11/30/23 13:08**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0414 | 103 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0421 | 105 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0393 | 98.3 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/23 13:08**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BGL0158 | 12/05/23 | 12/08/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **11/30/23 13:08**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | 8.42 | 67.4 % | | 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 Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B17@3'
2311627-11 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/30/23 13:08**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BGL0252 | 12/07/23 | 12/08/23 | 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: **11/30/23 13:08**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0188 | 56.3 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0193 | 57.8 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/30/23 13:08**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BGL0350 | 12/10/23 | 12/15/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **11/30/23 13:08**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B17@3'
2311627-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 1.00 | 0.200 | mg/kg dry | 1 | BHB0464 | 02/14/24 | 02/16/24 | EPA 6020B | |
| Barium | 23.8 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 2.09 | 0.400 | " | " | " | " | " | " | |
| Lead | 3.55 | 0.200 | " | " | " | " | " | " | |
| Nickel | 1.66 | 0.400 | " | " | " | " | " | " | |
| Silver | ND | 0.0200 | " | " | " | " | " | " | |
| Zinc | 8.56 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/30/23 13:08

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHB0166 | 02/06/24 | 02/06/24 | EPA 7196A | I-04 |

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

Date Sampled: 11/30/23 13:08

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 51.0 | 0.0500 | mg/L dry | 1 | BGL0547 | 12/14/23 | 12/21/23 | EPA 6020B | |
| Magnesium | 15.4 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 125 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: 11/30/23 13:08

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 3.94 | 0.00100 | units | 1 | BGL0831 | 12/21/23 | 12/21/23 | 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 Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B17@3'
2311627-11 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/30/23 13:08**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | | | | | | | | |
| % Solids | 76.8 | | | % | 1 | BGL0405 | 12/12/23 | 12/12/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/30/23 13:08**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Specific Conductance (EC) | 0.873 | 0.0100 | | mmhos/cm | 1 | BGL0634 | 12/18/23 | 12/19/23 | EPA 120.1 | |

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

Date Sampled: **11/30/23 13:08**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| pH | 8.19 | | | pH Units | 1 | BGL0633 | 12/18/23 | 12/19/23 | EPA 9045D | |

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B18@3'
2311627-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 13:12**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | BGL0152 | 12/05/23 | 12/06/23 | 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: **11/30/23 13:12**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0278 | 69.5 % | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0409 | 102 % | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0336 | 84.0 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/23 13:12**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BGL0158 | 12/05/23 | 12/08/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **11/30/23 13:12**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 7.82 | 62.6 % | 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 Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B18@3'
2311627-12 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/30/23 13:12**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BGL0252 | 12/07/23 | 12/08/23 | 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: **11/30/23 13:12**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0229 | 68.6 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0205 | 61.5 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/30/23 13:12**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BGL0350 | 12/10/23 | 12/15/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **11/30/23 13:12**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B18@3'
2311627-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 1.06 | 0.200 | mg/kg dry | 1 | BHB0464 | 02/14/24 | 02/16/24 | EPA 6020B | |
| Barium | 24.9 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 2.06 | 0.400 | " | " | " | " | " | " | |
| Lead | 4.04 | 0.200 | " | " | " | " | " | " | |
| Nickel | 1.73 | 0.400 | " | " | " | " | " | " | |
| Silver | ND | 0.0200 | " | " | " | " | " | " | |
| Zinc | 8.65 | 0.400 | " | " | " | " | " | " | |
| Selenium | 0.400 | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/30/23 13:12

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHB0166 | 02/06/24 | 02/06/24 | EPA 7196A | I-04 |

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

Date Sampled: 11/30/23 13:12

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 48.2 | 0.0500 | mg/L dry | 1 | BGL0547 | 12/14/23 | 12/21/23 | EPA 6020B | |
| Magnesium | 11.1 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 61.8 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: 11/30/23 13:12

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 2.09 | 0.00100 | units | 1 | BGL0831 | 12/21/23 | 12/21/23 | 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 Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B18@3'
2311627-12 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/30/23 13:12**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 79.2 | | % | 1 | BGL0405 | 12/12/23 | 12/12/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/30/23 13:12**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.505 | 0.0100 | mmhos/cm | 1 | BGL0634 | 12/18/23 | 12/19/23 | EPA 120.1 | |

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

Date Sampled: **11/30/23 13:12**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.01 | | pH Units | 1 | BGL0633 | 12/18/23 | 12/19/23 | EPA 9045D | |

Summit Scientific



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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B19@3'
2311627-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 13:14**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | BGL0152 | 12/05/23 | 12/06/23 | 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: **11/30/23 13:14**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0458 | 114 % | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0433 | 108 % | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0398 | 99.4 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/23 13:14**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BGL0158 | 12/05/23 | 12/08/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **11/30/23 13:14**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 6.95 | 55.6 % | 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 Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B19@3'
2311627-13 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/30/23 13:14**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BGL0252 | 12/07/23 | 12/08/23 | 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: **11/30/23 13:14**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0177 | 53.0 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0165 | 49.4 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/30/23 13:14**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BGL0350 | 12/10/23 | 12/15/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **11/30/23 13:14**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

Summit Scientific

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



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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B19@3'
2311627-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 0.707 | 0.200 | mg/kg dry | 1 | BHB0464 | 02/14/24 | 02/16/24 | EPA 6020B | |
| Barium | 18.7 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 2.04 | 0.400 | " | " | " | " | " | " | |
| Lead | 3.60 | 0.200 | " | " | " | " | " | " | |
| Nickel | 1.50 | 0.400 | " | " | " | " | " | " | |
| Silver | ND | 0.0200 | " | " | " | " | " | " | |
| Zinc | 7.69 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/30/23 13:14

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHB0166 | 02/06/24 | 02/06/24 | EPA 7196A | I-04 |

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

Date Sampled: 11/30/23 13:14

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 114 | 0.0500 | mg/L dry | 1 | BGL0547 | 12/14/23 | 12/21/23 | EPA 6020B | |
| Magnesium | 24.3 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 173 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: 11/30/23 13:14

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 3.84 | 0.00100 | units | 1 | BGL0831 | 12/21/23 | 12/21/23 | 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 Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B19@3'
2311627-13 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/30/23 13:14**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | | | | | | | | |
| % Solids | 81.8 | | | % | 1 | BGL0405 | 12/12/23 | 12/12/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/30/23 13:14**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Specific Conductance (EC) | 1.11 | 0.0100 | | mmhos/cm | 1 | BGL0634 | 12/18/23 | 12/19/23 | EPA 120.1 | |

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

Date Sampled: **11/30/23 13:14**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| pH | 8.53 | | | pH Units | 1 | BGL0633 | 12/18/23 | 12/19/23 | EPA 9045D | |

Summit Scientific



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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B20@3'
2311627-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 13:17**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BGL0152 | 12/05/23 | 12/06/23 | 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: **11/30/23 13:17**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0400 | 99.9 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0414 | 104 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0380 | 95.0 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/23 13:17**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BGL0158 | 12/05/23 | 12/08/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **11/30/23 13:17**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | 6.46 | 51.7 % | | 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 Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B20@3'
2311627-14 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/30/23 13:17**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BGL0252 | 12/07/23 | 12/08/23 | 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: **11/30/23 13:17**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0161 | 48.2 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0158 | 47.5 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/30/23 13:17**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BGL0350 | 12/10/23 | 12/15/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **11/30/23 13:17**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B20@3'
2311627-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 1.18 | 0.200 | mg/kg dry | 1 | BHB0464 | 02/14/24 | 02/16/24 | EPA 6020B | |
| Barium | 22.1 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 2.20 | 0.400 | " | " | " | " | " | " | |
| Lead | 4.10 | 0.200 | " | " | " | " | " | " | |
| Nickel | 1.65 | 0.400 | " | " | " | " | " | " | |
| Silver | 0.0309 | 0.0200 | " | " | " | " | " | " | |
| Zinc | 8.31 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/30/23 13:17

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHB0166 | 02/06/24 | 02/06/24 | EPA 7196A | I-04 |

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

Date Sampled: 11/30/23 13:17

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 38.8 | 0.0500 | mg/L dry | 1 | BGL0547 | 12/14/23 | 12/21/23 | EPA 6020B | |
| Magnesium | 10.0 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 102 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: 11/30/23 13:17

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 3.78 | 0.00100 | units | 1 | BGL0831 | 12/21/23 | 12/21/23 | 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 Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B20@3'
2311627-14 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/30/23 13:17**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 77.7 | | % | 1 | BGL0405 | 12/12/23 | 12/12/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/30/23 13:17**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.628 | 0.0100 | mmhos/cm | 1 | BGL0634 | 12/18/23 | 12/19/23 | EPA 120.1 | |

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

Date Sampled: **11/30/23 13:17**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 7.72 | | pH Units | 1 | BGL0633 | 12/18/23 | 12/19/23 | EPA 9045D | |

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B21@3'
2311627-15 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 13:21**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | BGL0152 | 12/05/23 | 12/06/23 | EPA 8260B | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | 0.035 | 0.0050 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | 0.033 | 0.0050 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | 1.9 | 0.50 | " | " | " | " | " | " | |

Date Sampled: **11/30/23 13:21**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0397 | 99.2 % | 50-150 | | " | " | " | " | |
| <i>Surrogate: Toluene-d8</i> | 0.0418 | 104 % | 50-150 | | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0403 | 101 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/23 13:21**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BGL0158 | 12/05/23 | 12/08/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **11/30/23 13:21**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| <i>Surrogate: o-Terphenyl</i> | 10.5 | 83.8 % | 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 Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B21@3'
2311627-15 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/30/23 13:21**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------|---------------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BGL0252 | 12/07/23 | 12/08/23 | 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 | 0.0103 | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **11/30/23 13:21**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0162 | 48.7 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0146 | 43.8 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/30/23 13:21**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BGL0350 | 12/10/23 | 12/15/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **11/30/23 13:21**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

Summit Scientific

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



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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B21@3'
2311627-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 1.17 | 0.200 | mg/kg dry | 1 | BHB0464 | 02/14/24 | 02/16/24 | EPA 6020B | |
| Barium | 31.0 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 2.81 | 0.400 | " | " | " | " | " | " | |
| Lead | 3.63 | 0.200 | " | " | " | " | " | " | |
| Nickel | 2.48 | 0.400 | " | " | " | " | " | " | |
| Silver | ND | 0.0200 | " | " | " | " | " | " | |
| Zinc | 11.0 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/30/23 13:21

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHB0166 | 02/06/24 | 02/06/24 | EPA 7196A | I-04 |

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

Date Sampled: 11/30/23 13:21

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 74.4 | 0.0500 | mg/L dry | 1 | BGL0547 | 12/14/23 | 12/21/23 | EPA 6020B | |
| Magnesium | 21.9 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 1.23 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: 11/30/23 13:21

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0322 | 0.00100 | units | 1 | BGL0831 | 12/21/23 | 12/21/23 | 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 Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-B21@3'
2311627-15 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/30/23 13:21**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 92.6 | | % | 1 | BGL0405 | 12/12/23 | 12/12/23 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/30/23 13:21**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.0174 | 0.0100 | mmhos/cm | 1 | BGL0634 | 12/18/23 | 12/19/23 | EPA 120.1 | |

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

Date Sampled: **11/30/23 13:21**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 7.18 | | pH Units | 1 | BGL0633 | 12/18/23 | 12/19/23 | EPA 9045D | |

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

SP-CS05
2311627-16 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 13:28**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BGL0152 | 12/05/23 | 12/06/23 | 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: **11/30/23 13:28**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0425 | 106 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0413 | 103 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0404 | 101 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/23 13:28**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BGL0158 | 12/05/23 | 12/08/23 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **11/30/23 13:28**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | 7.71 | 61.7 % | | 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 Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

SP-CS05
2311627-16 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/30/23 13:28**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BGL0252 | 12/07/23 | 12/08/23 | 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: **11/30/23 13:28**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0164 | 49.2 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0141 | 42.4 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/30/23 13:28**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BGL0350 | 12/10/23 | 12/15/23 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **11/30/23 13:28**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

SP-CS05
2311627-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 0.904 | 0.200 | mg/kg dry | 1 | BHB0464 | 02/14/24 | 02/16/24 | EPA 6020B | |
| Barium | 19.9 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 2.14 | 0.400 | " | " | " | " | " | " | |
| Lead | 4.15 | 0.200 | " | " | " | " | " | " | |
| Nickel | 1.61 | 0.400 | " | " | " | " | " | " | |
| Silver | ND | 0.0200 | " | " | " | " | " | " | |
| Zinc | 8.44 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/30/23 13:28

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHB0166 | 02/06/24 | 02/06/24 | EPA 7196A | I-04 |

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

Date Sampled: 11/30/23 13:28

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 78.0 | 0.0500 | mg/L dry | 1 | BGL0547 | 12/14/23 | 12/21/23 | EPA 6020B | |
| Magnesium | 22.1 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 177 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: 11/30/23 13:28

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 4.56 | 0.00100 | units | 1 | BGL0831 | 12/21/23 | 12/21/23 | 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 Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

SP-CS05
2311627-16 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/30/23 13:28**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 85.3 | | % | 1 | BGL0405 | 12/12/23 | 12/12/23 | Calculation | |

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

Date Sampled: **11/30/23 13:28**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.25 | | pH Units | 1 | BGL0633 | 12/18/23 | 12/19/23 | EPA 9045D | |

Summit Scientific



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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
 Project Manager: Sam Vogt

Reported:
 03/20/24 14:41

SP-CS05
2311627-16 (Soil)

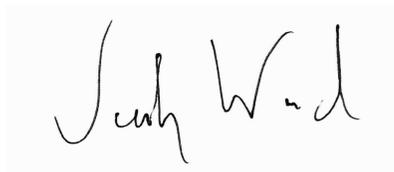
Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/30/23 13:28**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Specific Conductance (EC) | 1.67 | 0.0100 | mmhos/cm | 1 | BHB0594 | 02/19/24 | 02/19/24 | EPA 120.1 | I-04 |

Summit Scientific



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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-GW01
2311627-17 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 11:24**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------------|-------------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | 260 | 1.0 | | ug/l | 1 | BGL0129 | 12/04/23 | 12/05/23 | EPA 8260B | E |
| Toluene | 1100 | 100 | | " | 100 | " | " | 12/04/23 | " | |
| Ethylbenzene | 67 | 1.0 | | " | 1 | " | " | 12/05/23 | " | |
| Xylenes (total) | 1500 | 200 | | " | 100 | " | " | 12/04/23 | " | |
| Naphthalene | 44 | 1.0 | | " | 1 | " | " | 12/05/23 | " | |
| 1,2,4-Trimethylbenzene | 430 | 100 | | " | 100 | " | " | 12/04/23 | " | |
| 1,3,5-Trimethylbenzene | 320 | 100 | | " | " | " | " | " | " | |

Date Sampled: **11/30/23 11:24**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 13.5 | 101 % | | 23-173 | | " | " | 12/05/23 | " | |
| <i>Surrogate: Toluene-d8</i> | 13.3 | 99.8 % | | 20-170 | | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 15.8 | 118 % | | 21-167 | | " | " | " | " | |

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-GW02
2311627-18 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 11:35**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------------|-------------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | 2400 | 100 | | ug/l | 100 | BGL0129 | 12/04/23 | 12/04/23 | EPA 8260B | |
| Toluene | 6700 | 100 | | " | " | " | " | " | " | |
| Ethylbenzene | 160 | 1.0 | | " | 1 | " | " | 12/05/23 | " | |
| Xylenes (total) | 3500 | 200 | | " | 100 | " | " | 12/04/23 | " | |
| Naphthalene | 18 | 1.0 | | " | 1 | " | " | 12/05/23 | " | |
| 1,2,4-Trimethylbenzene | 150 | 1.0 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | 100 | 1.0 | | " | " | " | " | " | " | |

Date Sampled: **11/30/23 11:35**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 14.8 | 111 % | | 23-173 | | " | " | " | " | |
| <i>Surrogate: Toluene-d8</i> | 15.1 | 113 % | | 20-170 | | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 13.8 | 103 % | | 21-167 | | " | " | " | " | |

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-GW03
2311627-19 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 11:50**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------------|------------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | 100 | 1.0 | | ug/l | 1 | BGL0129 | 12/04/23 | 12/04/23 | EPA 8260B | |
| Toluene | 140 | 1.0 | | " | " | " | " | " | " | |
| Ethylbenzene | 6.9 | 1.0 | | " | " | " | " | " | " | |
| Xylenes (total) | 100 | 2.0 | | " | " | " | " | " | " | |
| Naphthalene | ND | 1.0 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | 8.3 | 1.0 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | 5.8 | 1.0 | | " | " | " | " | " | " | |

Date Sampled: **11/30/23 11:50**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 14.2 | 106 % | | 23-173 | | " | " | " | " | |
| <i>Surrogate: Toluene-d8</i> | 12.6 | 94.1 % | | 20-170 | | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 13.2 | 99.0 % | | 21-167 | | " | " | " | " | |

Summit Scientific



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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-GW04
2311627-20 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 12:17**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------------|------------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | 660 | 10 | | ug/l | 10 | BGL0129 | 12/04/23 | 12/05/23 | EPA 8260B | |
| Toluene | 640 | 10 | | " | " | " | " | " | " | |
| Ethylbenzene | 25 | 1.0 | | " | 1 | " | " | 12/04/23 | " | |
| Xylenes (total) | 390 | 2.0 | | " | " | " | " | " | " | |
| Naphthalene | ND | 1.0 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | 16 | 1.0 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | 11 | 1.0 | | " | " | " | " | " | " | |

Date Sampled: **11/30/23 12:17**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 13.6 | 102 % | | 23-173 | | " | " | " | " | |
| <i>Surrogate: Toluene-d8</i> | 13.4 | 100 % | | 20-170 | | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 13.5 | 101 % | | 21-167 | | " | " | " | " | |

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-GW05
2311627-21 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 12:34**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|------------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | 4.7 | 1.0 | | ug/l | 1 | BGL0129 | 12/04/23 | 12/04/23 | EPA 8260B | |
| Toluene | 19 | 1.0 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |
| Xylenes (total) | 12 | 2.0 | | " | " | " | " | " | " | |
| Naphthalene | ND | 1.0 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |

Date Sampled: **11/30/23 12:34**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 15.1 | 114 % | | 23-173 | | " | " | " | " | |
| <i>Surrogate: Toluene-d8</i> | 15.7 | 118 % | | 20-170 | | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 13.3 | 99.5 % | | 21-167 | | " | " | " | " | |

Summit Scientific



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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-GW06
2311627-22 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 12:54**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------------|------------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | 110 | 1.0 | | ug/l | 1 | BGL0129 | 12/04/23 | 12/05/23 | EPA 8260B | |
| Toluene | 220 | 1.0 | | " | " | " | " | " | " | E |
| Ethylbenzene | 12 | 1.0 | | " | " | " | " | " | " | |
| Xylenes (total) | 190 | 2.0 | | " | " | " | " | " | " | |
| Naphthalene | ND | 1.0 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | 16 | 1.0 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | 11 | 1.0 | | " | " | " | " | " | " | |

Date Sampled: **11/30/23 12:54**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 13.8 | 103 % | | 23-173 | | " | " | " | " | |
| <i>Surrogate: Toluene-d8</i> | 13.1 | 98.0 % | | 20-170 | | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 13.4 | 100 % | | 21-167 | | " | " | " | " | |

Summit Scientific



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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

FL-GW07
2311627-23 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 13:03**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 1.0 | | ug/l | 1 | BGL0129 | 12/04/23 | 12/05/23 | EPA 8260B | |
| Toluene | ND | 1.0 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |
| Xylenes (total) | ND | 2.0 | | " | " | " | " | " | " | |
| Naphthalene | ND | 1.0 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | " | " | " | " | " | " | |

Date Sampled: **11/30/23 13:03**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 13.8 | 103 % | | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 13.3 | 99.9 % | | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 13.5 | 101 % | | 21-167 | | " | " | " | " | |

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

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 BGL0129 - EPA 5030 Water MS

Blank (BGL0129-BLK1)

Prepared & Analyzed: 12/04/23

| | | | | | | | | | | |
|---|------|-----|------|------|--|------|--------|--|--|--|
| Benzene | ND | 1.0 | ug/l | | | | | | | |
| Toluene | ND | 1.0 | " | | | | | | | |
| Ethylbenzene | ND | 1.0 | " | | | | | | | |
| Xylenes (total) | ND | 2.0 | " | | | | | | | |
| Naphthalene | ND | 1.0 | " | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | " | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | " | | | | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 13.1 | | " | 13.3 | | 98.0 | 23-173 | | | |
| <i>Surrogate: Toluene-d8</i> | 13.2 | | " | 13.3 | | 99.2 | 20-170 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 13.0 | | " | 13.3 | | 97.2 | 21-167 | | | |

LCS (BGL0129-BS1)

Prepared & Analyzed: 12/04/23

| | | | | | | | | | | |
|---|------|-----|------|------|--|------|--------|--|--|--|
| Benzene | 32.5 | 1.0 | ug/l | 33.3 | | 97.4 | 51-132 | | | |
| Toluene | 32.9 | 1.0 | " | 33.3 | | 98.8 | 51-138 | | | |
| Ethylbenzene | 33.4 | 1.0 | " | 33.3 | | 100 | 58-146 | | | |
| m,p-Xylene | 66.5 | 2.0 | " | 66.7 | | 99.7 | 57-144 | | | |
| o-Xylene | 33.0 | 1.0 | " | 33.3 | | 98.9 | 53-146 | | | |
| Naphthalene | 23.5 | 1.0 | " | 33.3 | | 70.5 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 33.4 | 1.0 | " | 33.3 | | 100 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 33.4 | 1.0 | " | 33.3 | | 100 | 70-130 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 13.7 | | " | 13.3 | | 103 | 23-173 | | | |
| <i>Surrogate: Toluene-d8</i> | 13.2 | | " | 13.3 | | 98.8 | 20-170 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 13.3 | | " | 13.3 | | 99.8 | 21-167 | | | |

Matrix Spike (BGL0129-MS1)

Source: 2311628-21

Prepared & Analyzed: 12/04/23

| | | | | | | | | | | |
|---|------|-----|------|------|----|------|--------|--|--|-------|
| Benzene | 29.4 | 1.0 | ug/l | 33.3 | ND | 88.1 | 34-141 | | | |
| Toluene | 30.9 | 1.0 | " | 33.3 | ND | 92.8 | 27-151 | | | |
| Ethylbenzene | 31.3 | 1.0 | " | 33.3 | ND | 94.0 | 29-160 | | | |
| m,p-Xylene | 58.6 | 2.0 | " | 66.7 | ND | 88.0 | 20-166 | | | |
| o-Xylene | 30.4 | 1.0 | " | 33.3 | ND | 91.3 | 33-159 | | | |
| Naphthalene | 32.1 | 1.0 | " | 33.3 | ND | 96.4 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 21.7 | 1.0 | " | 33.3 | ND | 65.1 | 70-130 | | | QM-07 |
| 1,3,5-Trimethylbenzene | 26.2 | 1.0 | " | 33.3 | ND | 78.6 | 70-130 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 12.2 | | " | 13.3 | | 91.9 | 23-173 | | | |
| <i>Surrogate: Toluene-d8</i> | 13.3 | | " | 13.3 | | 99.9 | 20-170 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 13.4 | | " | 13.3 | | 100 | 21-167 | | | |

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

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 BGL0129 - EPA 5030 Water MS

| Matrix Spike Dup (BGL0129-MSD1) | Source: 2311628-21 | | | Prepared & Analyzed: 12/04/23 | | | | | | |
|----------------------------------|--------------------|-----|------|-------------------------------|----|------|--------|-------|----|-------|
| Benzene | 31.4 | 1.0 | ug/l | 33.3 | ND | 94.4 | 34-141 | 6.81 | 30 | |
| Toluene | 31.2 | 1.0 | " | 33.3 | ND | 93.7 | 27-151 | 0.965 | 30 | |
| Ethylbenzene | 31.4 | 1.0 | " | 33.3 | ND | 94.2 | 29-160 | 0.287 | 30 | |
| m,p-Xylene | 59.1 | 2.0 | " | 66.7 | ND | 88.6 | 20-166 | 0.764 | 30 | |
| o-Xylene | 31.0 | 1.0 | " | 33.3 | ND | 93.0 | 33-159 | 1.82 | 30 | |
| Naphthalene | 33.7 | 1.0 | " | 33.3 | ND | 101 | 70-130 | 4.77 | 30 | |
| 1,2,4-Trimethylbenzene | 22.1 | 1.0 | " | 33.3 | ND | 66.3 | 70-130 | 1.74 | 30 | QM-07 |
| 1,3,5-Trimethylbenzene | 26.2 | 1.0 | " | 33.3 | ND | 78.5 | 70-130 | 0.115 | 30 | |
| Surrogate: 1,2-Dichloroethane-d4 | 13.9 | | " | 13.3 | | 104 | 23-173 | | | |
| Surrogate: Toluene-d8 | 13.3 | | " | 13.3 | | 99.6 | 20-170 | | | |
| Surrogate: 4-Bromofluorobenzene | 13.2 | | " | 13.3 | | 99.2 | 21-167 | | | |

Batch BGL0152 - EPA 5030 Soil MS

| Blank (BGL0152-BLK1) | Prepared: 12/05/23 Analyzed: 12/06/23 | | | | | | | | | |
|----------------------------------|---------------------------------------|--------|-------|--------|--|-----|--------|--|--|--|
| 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 | " | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0439 | | " | 0.0400 | | 110 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0449 | | " | 0.0400 | | 112 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0402 | | " | 0.0400 | | 100 | 50-150 | | | |

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

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 BGL0152 - EPA 5030 Soil MS

LCS (BGL0152-BS1)

Prepared: 12/05/23 Analyzed: 12/06/23

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | 0.112 | 0.0020 | mg/kg | 0.100 | | 112 | 70-130 | | | |
| Toluene | 0.101 | 0.0050 | " | 0.100 | | 101 | 70-130 | | | |
| Ethylbenzene | 0.0941 | 0.0050 | " | 0.100 | | 94.1 | 70-130 | | | |
| m,p-Xylene | 0.179 | 0.010 | " | 0.200 | | 89.4 | 70-130 | | | |
| o-Xylene | 0.0837 | 0.0050 | " | 0.100 | | 83.7 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.101 | 0.0050 | " | 0.100 | | 101 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0989 | 0.0050 | " | 0.100 | | 98.9 | 70-130 | | | |
| Naphthalene | 0.125 | 0.0038 | " | 0.100 | | 125 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0411 | | " | 0.0400 | | 103 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0427 | | " | 0.0400 | | 107 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0390 | | " | 0.0400 | | 97.5 | 50-150 | | | |

Matrix Spike (BGL0152-MS1)

Source: 2311627-01

Prepared: 12/05/23 Analyzed: 12/06/23

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|----|------|--------|--|--|--|
| Benzene | 0.0926 | 0.0020 | mg/kg | 0.100 | ND | 92.6 | 70-130 | | | |
| Toluene | 0.0836 | 0.0050 | " | 0.100 | ND | 83.6 | 70-130 | | | |
| Ethylbenzene | 0.0824 | 0.0050 | " | 0.100 | ND | 82.4 | 70-130 | | | |
| m,p-Xylene | 0.153 | 0.010 | " | 0.200 | ND | 76.3 | 70-130 | | | |
| o-Xylene | 0.0712 | 0.0050 | " | 0.100 | ND | 71.2 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.0766 | 0.0050 | " | 0.100 | ND | 76.6 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0822 | 0.0050 | " | 0.100 | ND | 82.2 | 70-130 | | | |
| Naphthalene | 0.0937 | 0.0038 | " | 0.100 | ND | 93.7 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0419 | | " | 0.0400 | | 105 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0412 | | " | 0.0400 | | 103 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0384 | | " | 0.0400 | | 96.0 | 50-150 | | | |

Matrix Spike Dup (BGL0152-MSD1)

Source: 2311627-01

Prepared: 12/05/23 Analyzed: 12/06/23

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|----|------|--------|------|----|--|
| Benzene | 0.0869 | 0.0020 | mg/kg | 0.100 | ND | 86.9 | 70-130 | 6.32 | 30 | |
| Toluene | 0.0782 | 0.0050 | " | 0.100 | ND | 78.2 | 70-130 | 6.60 | 30 | |
| Ethylbenzene | 0.0733 | 0.0050 | " | 0.100 | ND | 73.3 | 70-130 | 11.7 | 30 | |
| m,p-Xylene | 0.167 | 0.010 | " | 0.200 | ND | 83.5 | 70-130 | 8.94 | 30 | |
| o-Xylene | 0.0939 | 0.0050 | " | 0.100 | ND | 93.9 | 70-130 | 27.4 | 30 | |
| 1,2,4-Trimethylbenzene | 0.0936 | 0.0050 | " | 0.100 | ND | 93.6 | 70-130 | 20.1 | 30 | |
| 1,3,5-Trimethylbenzene | 0.0712 | 0.0050 | " | 0.100 | ND | 71.2 | 70-130 | 14.4 | 30 | |
| Naphthalene | 0.0757 | 0.0038 | " | 0.100 | ND | 75.7 | 70-130 | 21.3 | 30 | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0433 | | " | 0.0400 | | 108 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0417 | | " | 0.0400 | | 104 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0385 | | " | 0.0400 | | 96.2 | 50-150 | | | |

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGL0158 - EPA 3550A

Blank (BGL0158-BLK1)

Prepared: 12/05/23 Analyzed: 12/07/23

| | | | | | | | | | | |
|--------------------------------|------|----|-------|------|--|------|--------|--|--|--|
| C10-C28 (DRO) | ND | 50 | mg/kg | | | | | | | |
| C28-C36 (ORO) | ND | 50 | " | | | | | | | |
| Surrogate: <i>o</i> -Terphenyl | 11.6 | | " | 12.5 | | 92.7 | 30-150 | | | |

LCS (BGL0158-BS1)

Prepared: 12/05/23 Analyzed: 12/07/23

| | | | | | | | | | | |
|--------------------------------|------|----|-------|------|------|------|--------|--|--|--|
| C10-C28 (DRO) | 525 | 50 | mg/kg | 500 | 13.8 | 81.7 | 70-130 | | | |
| Surrogate: <i>o</i> -Terphenyl | 7.65 | | " | 12.5 | | 61.2 | 30-150 | | | |

Matrix Spike (BGL0158-MS1)

Source: 2311627-01

Prepared: 12/05/23 Analyzed: 12/07/23

| | | | | | | | | | | |
|--------------------------------|------|----|-------|------|------|------|--------|--|--|--|
| C10-C28 (DRO) | 422 | 50 | mg/kg | 500 | 13.8 | 81.7 | 70-130 | | | |
| Surrogate: <i>o</i> -Terphenyl | 5.88 | | " | 12.5 | | 47.0 | 30-150 | | | |

Matrix Spike Dup (BGL0158-MSD1)

Source: 2311627-01

Prepared: 12/05/23 Analyzed: 12/08/23

| | | | | | | | | | | |
|--------------------------------|------|----|-------|------|------|------|--------|------|----|--|
| C10-C28 (DRO) | 470 | 50 | mg/kg | 500 | 13.8 | 91.2 | 70-130 | 10.7 | 20 | |
| Surrogate: <i>o</i> -Terphenyl | 6.33 | | " | 12.5 | | 50.6 | 30-150 | | | |

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

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 BGL0252 - EPA 5030 Soil MS

Blank (BGL0252-BLK1)

Prepared: 12/07/23 Analyzed: 12/08/23

| | | | | | | | | | | |
|---|---------------|---------|-------|---------------|--|------------|--|---------------|--|--|
| 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>0.0395</i> | | " | <i>0.0333</i> | | <i>118</i> | | <i>40-150</i> | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0383</i> | | " | <i>0.0333</i> | | <i>115</i> | | <i>40-150</i> | | |

LCS (BGL0252-BS1)

Prepared: 12/07/23 Analyzed: 12/08/23

| | | | | | | |
|---|---------------|---------|-------|---------------|------------|---------------|
| Acenaphthene | 0.0329 | 0.00500 | mg/kg | 0.0333 | 98.6 | 31-137 |
| Anthracene | 0.0259 | 0.00500 | " | 0.0333 | 77.6 | 30-120 |
| Benzo (a) anthracene | 0.0267 | 0.00500 | " | 0.0333 | 80.1 | 30-120 |
| Benzo (a) pyrene | 0.0225 | 0.00500 | " | 0.0333 | 67.4 | 30-120 |
| Benzo (b) fluoranthene | 0.0202 | 0.00500 | " | 0.0333 | 60.7 | 30-120 |
| Benzo (k) fluoranthene | 0.0245 | 0.00500 | " | 0.0333 | 73.4 | 30-120 |
| Chrysene | 0.0275 | 0.00500 | " | 0.0333 | 82.6 | 30-120 |
| Dibenz (a,h) anthracene | 0.0261 | 0.00500 | " | 0.0333 | 78.3 | 30-120 |
| Fluoranthene | 0.0248 | 0.00500 | " | 0.0333 | 74.4 | 30-120 |
| Fluorene | 0.0241 | 0.00500 | " | 0.0333 | 72.2 | 30-120 |
| Indeno (1,2,3-cd) pyrene | 0.0273 | 0.00500 | " | 0.0333 | 82.0 | 30-120 |
| Pyrene | 0.0304 | 0.00500 | " | 0.0333 | 91.2 | 35-142 |
| 1-Methylnaphthalene | 0.0257 | 0.00500 | " | 0.0333 | 77.0 | 35-142 |
| 2-Methylnaphthalene | 0.0299 | 0.00500 | " | 0.0333 | 89.8 | 35-142 |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0335</i> | | " | <i>0.0333</i> | <i>101</i> | <i>40-150</i> |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0364</i> | | " | <i>0.0333</i> | <i>109</i> | <i>40-150</i> |

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

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 BGL0252 - EPA 5030 Soil MS

Matrix Spike (BGL0252-MS1)

Source: 2311627-01

Prepared: 12/07/23 Analyzed: 12/08/23

| | | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|----|------|--------|--|--|--|
| Acenaphthene | 0.0160 | 0.00500 | mg/kg | 0.0333 | ND | 47.9 | 31-137 | | | |
| Anthracene | 0.0140 | 0.00500 | " | 0.0333 | ND | 42.1 | 30-120 | | | |
| Benzo (a) anthracene | 0.0153 | 0.00500 | " | 0.0333 | ND | 45.9 | 30-120 | | | |
| Benzo (a) pyrene | 0.0175 | 0.00500 | " | 0.0333 | ND | 52.5 | 30-120 | | | |
| Benzo (b) fluoranthene | 0.0175 | 0.00500 | " | 0.0333 | ND | 52.6 | 30-120 | | | |
| Benzo (k) fluoranthene | 0.0163 | 0.00500 | " | 0.0333 | ND | 48.8 | 30-120 | | | |
| Chrysene | 0.0141 | 0.00500 | " | 0.0333 | ND | 42.4 | 30-120 | | | |
| Dibenz (a,h) anthracene | 0.0235 | 0.00500 | " | 0.0333 | ND | 70.6 | 30-120 | | | |
| Fluoranthene | 0.0154 | 0.00500 | " | 0.0333 | ND | 46.1 | 30-120 | | | |
| Fluorene | 0.0155 | 0.00500 | " | 0.0333 | ND | 46.6 | 30-120 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0186 | 0.00500 | " | 0.0333 | ND | 55.6 | 30-120 | | | |
| Pyrene | 0.0145 | 0.00500 | " | 0.0333 | ND | 43.4 | 35-142 | | | |
| 1-Methylnaphthalene | 0.0156 | 0.00500 | " | 0.0333 | ND | 46.9 | 15-130 | | | |
| 2-Methylnaphthalene | 0.0170 | 0.00500 | " | 0.0333 | ND | 51.1 | 15-130 | | | |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0206 | | " | 0.0333 | | 61.8 | 40-150 | | | |
| Surrogate: Fluoranthene-d10 | 0.0202 | | " | 0.0333 | | 60.5 | 40-150 | | | |

Matrix Spike Dup (BGL0252-MSD1)

Source: 2311627-01

Prepared: 12/07/23 Analyzed: 12/08/23

| | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|----|------|--------|-------|----|
| Acenaphthene | 0.0178 | 0.00500 | mg/kg | 0.0333 | ND | 53.3 | 31-137 | 10.8 | 30 |
| Anthracene | 0.0156 | 0.00500 | " | 0.0333 | ND | 46.7 | 30-120 | 10.3 | 30 |
| Benzo (a) anthracene | 0.0177 | 0.00500 | " | 0.0333 | ND | 53.0 | 30-120 | 14.3 | 30 |
| Benzo (a) pyrene | 0.0183 | 0.00500 | " | 0.0333 | ND | 54.8 | 30-120 | 4.30 | 30 |
| Benzo (b) fluoranthene | 0.0140 | 0.00500 | " | 0.0333 | ND | 42.0 | 30-120 | 22.4 | 30 |
| Benzo (k) fluoranthene | 0.0141 | 0.00500 | " | 0.0333 | ND | 42.4 | 30-120 | 14.1 | 30 |
| Chrysene | 0.0149 | 0.00500 | " | 0.0333 | ND | 44.6 | 30-120 | 4.90 | 30 |
| Dibenz (a,h) anthracene | 0.0200 | 0.00500 | " | 0.0333 | ND | 60.0 | 30-120 | 16.3 | 30 |
| Fluoranthene | 0.0154 | 0.00500 | " | 0.0333 | ND | 46.3 | 30-120 | 0.489 | 30 |
| Fluorene | 0.0144 | 0.00500 | " | 0.0333 | ND | 43.1 | 30-120 | 7.92 | 30 |
| Indeno (1,2,3-cd) pyrene | 0.0190 | 0.00500 | " | 0.0333 | ND | 57.1 | 30-120 | 2.66 | 30 |
| Pyrene | 0.0180 | 0.00500 | " | 0.0333 | ND | 54.1 | 35-142 | 22.1 | 30 |
| 1-Methylnaphthalene | 0.0182 | 0.00500 | " | 0.0333 | ND | 54.7 | 15-130 | 15.4 | 50 |
| 2-Methylnaphthalene | 0.0191 | 0.00500 | " | 0.0333 | ND | 57.3 | 15-130 | 11.4 | 50 |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0217 | | " | 0.0333 | | 65.0 | 40-150 | | |
| Surrogate: Fluoranthene-d10 | 0.0231 | | " | 0.0333 | | 69.3 | 40-150 | | |

Summit Scientific

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



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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

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

Summit Scientific

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

Batch BGL0350 - EPA 3050B

Blank (BGL0350-BLK1)

Prepared: 12/10/23 Analyzed: 12/15/23

Boron ND 2.00 mg/L

LCS (BGL0350-BS1)

Prepared: 12/10/23 Analyzed: 12/15/23

Boron 5.10 2.00 mg/L 5.00 102 80-120

Duplicate (BGL0350-DUP1)

Source: 2311626-01

Prepared: 12/10/23 Analyzed: 12/15/23

Boron 0.284 2.00 mg/L 0.300 5.52 20

Matrix Spike (BGL0350-MS1)

Source: 2311626-01

Prepared: 12/10/23 Analyzed: 12/15/23

Boron 5.33 2.00 mg/L 5.00 0.300 101 75-125

Matrix Spike Dup (BGL0350-MSD1)

Source: 2311626-01

Prepared: 12/10/23 Analyzed: 12/15/23

Boron 5.37 2.00 mg/L 5.00 0.300 101 75-125 0.768 25

Batch BHB0059 - EPA 3050B

Blank (BHB0059-BLK1)

Prepared: 02/02/24 Analyzed: 02/07/24

Boron ND 2.00 mg/L

LCS (BHB0059-BS1)

Prepared: 02/02/24 Analyzed: 02/07/24

Boron 5.55 2.00 mg/L 5.00 111 80-120

Duplicate (BHB0059-DUP1)

Source: 2311627-07RE1

Prepared: 02/02/24 Analyzed: 02/07/24

Boron 2.82 2.00 mg/L 2.87 1.87 20

Matrix Spike (BHB0059-MS1)

Source: 2311627-07RE1

Prepared: 02/02/24 Analyzed: 02/07/24

Boron 8.18 2.00 mg/L 5.00 2.87 106 75-125

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

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

Summit Scientific

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

Batch BHB0059 - EPA 3050B

Matrix Spike Dup (BHB0059-MSD1)

Source: 2311627-07RE1

Prepared: 02/02/24 Analyzed: 02/07/24

| | | | | | | | | | | |
|-------|------|------|------|------|------|-----|--------|--------|----|--|
| Boron | 8.18 | 2.00 | mg/L | 5.00 | 2.87 | 106 | 75-125 | 0.0348 | 25 | |
|-------|------|------|------|------|------|-----|--------|--------|----|--|

Summit Scientific



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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHB0464 - EPA 3050B

Blank (BHB0464-BLK1)

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

| | | | | | | | | | |
|----------|----|--------|-----------|--|--|--|--|--|--|
| 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 (BHB0464-BS1)

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

| | | | | | | |
|----------|------|--------|-----------|------|------|--------|
| Arsenic | 32.9 | 0.200 | mg/kg wet | 40.0 | 82.3 | 80-120 |
| Barium | 33.6 | 0.400 | " | 40.0 | 83.9 | 80-120 |
| Cadmium | 1.72 | 0.200 | " | 2.00 | 86.2 | 80-120 |
| Copper | 37.2 | 0.400 | " | 40.0 | 92.9 | 80-120 |
| Lead | 17.1 | 0.200 | " | 20.0 | 85.5 | 80-120 |
| Nickel | 36.3 | 0.400 | " | 40.0 | 90.7 | 80-120 |
| Silver | 1.76 | 0.0200 | " | 2.00 | 87.9 | 80-120 |
| Zinc | 36.4 | 0.400 | " | 40.0 | 90.9 | 80-120 |
| Selenium | 3.93 | 0.260 | " | 4.00 | 98.2 | 80-120 |

Duplicate (BHB0464-DUP1)

Source: 2311627-01

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

| | | | | | | |
|----------|--------|--------|-----------|--------|------|----|
| Arsenic | 1.12 | 0.200 | mg/kg dry | 1.17 | 4.53 | 20 |
| Barium | 40.2 | 0.400 | " | 39.5 | 1.76 | 20 |
| Cadmium | 0.0894 | 0.200 | " | 0.102 | 12.7 | 20 |
| Copper | 2.35 | 0.400 | " | 2.32 | 1.37 | 20 |
| Lead | 6.07 | 0.200 | " | 5.33 | 13.0 | 20 |
| Nickel | 2.38 | 0.400 | " | 2.34 | 2.01 | 20 |
| Silver | 0.0186 | 0.0200 | " | 0.0151 | 20.5 | 20 |
| Zinc | 10.5 | 0.400 | " | 9.60 | 8.59 | 20 |
| Selenium | ND | 0.260 | " | ND | | 20 |

QR-01

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

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 BHB0464 - EPA 3050B

Matrix Spike (BHB0464-MS1)

Source: 2311627-01

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

| | | | | | | | | | | |
|----------|------|--------|-----------|------|--------|------|--------|--|--|-------|
| Arsenic | 35.5 | 0.200 | mg/kg dry | 43.2 | 1.17 | 79.3 | 75-125 | | | |
| Barium | 73.0 | 0.400 | " | 43.2 | 39.5 | 77.6 | 75-125 | | | |
| Cadmium | 1.91 | 0.200 | " | 2.16 | 0.102 | 83.7 | 75-125 | | | |
| Copper | 31.2 | 0.400 | " | 43.2 | 2.32 | 66.8 | 75-125 | | | QM-07 |
| Lead | 23.3 | 0.200 | " | 21.6 | 5.33 | 83.4 | 75-125 | | | |
| Nickel | 30.9 | 0.400 | " | 43.2 | 2.34 | 66.0 | 75-125 | | | QM-07 |
| Silver | 1.87 | 0.0200 | " | 2.16 | 0.0151 | 85.6 | 75-125 | | | |
| Zinc | 40.7 | 0.400 | " | 43.2 | 9.60 | 71.9 | 75-125 | | | QM-07 |
| Selenium | 3.86 | 0.260 | " | 4.32 | ND | 89.4 | 75-125 | | | |

Matrix Spike Dup (BHB0464-MSD1)

Source: 2311627-01

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

| | | | | | | | | | | |
|----------|------|--------|-----------|------|--------|------|--------|------|----|-------|
| Arsenic | 37.6 | 0.200 | mg/kg dry | 43.2 | 1.17 | 84.3 | 75-125 | 5.90 | 25 | |
| Barium | 77.0 | 0.400 | " | 43.2 | 39.5 | 86.9 | 75-125 | 5.34 | 25 | |
| Cadmium | 2.02 | 0.200 | " | 2.16 | 0.102 | 88.8 | 75-125 | 5.65 | 25 | |
| Copper | 33.1 | 0.400 | " | 43.2 | 2.32 | 71.3 | 75-125 | 6.03 | 25 | QM-07 |
| Lead | 24.6 | 0.200 | " | 21.6 | 5.33 | 89.4 | 75-125 | 5.40 | 25 | |
| Nickel | 32.7 | 0.400 | " | 43.2 | 2.34 | 70.3 | 75-125 | 5.75 | 25 | QM-07 |
| Silver | 1.99 | 0.0200 | " | 2.16 | 0.0151 | 91.2 | 75-125 | 6.31 | 25 | |
| Zinc | 43.3 | 0.400 | " | 43.2 | 9.60 | 78.0 | 75-125 | 6.27 | 25 | |
| Selenium | 4.16 | 0.260 | " | 4.32 | ND | 96.4 | 75-125 | 7.45 | 25 | |

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHB0166 - 3060A Mod

Blank (BHB0166-BLK1)

Prepared & Analyzed: 02/06/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHB0166-BS1)

Prepared & Analyzed: 02/06/24

Chromium, Hexavalent 23.0 0.30 mg/kg wet 25.0 92.0 80-120

Duplicate (BHB0166-DUP1)

Source: 2311627-01

Prepared & Analyzed: 02/06/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHB0166-MS1)

Source: 2311627-01

Prepared & Analyzed: 02/06/24

Chromium, Hexavalent 24.8 0.30 mg/kg dry 27.0 ND 91.8 75-125

Matrix Spike Dup (BHB0166-MSD1)

Source: 2311627-01

Prepared & Analyzed: 02/06/24

Chromium, Hexavalent 24.6 0.30 mg/kg dry 27.0 ND 91.2 75-125 0.656 20

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

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

Summit Scientific

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

Batch BGL0547 - General Preparation

Blank (BGL0547-BLK1)

Prepared: 12/14/23 Analyzed: 12/21/23

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

LCS (BGL0547-BS1)

Prepared: 12/14/23 Analyzed: 12/21/23

| | | | | | | | | | | |
|-----------|------|--------|----------|------|--|-----|--------|--|--|--|
| Calcium | 5.91 | 0.0500 | mg/L wet | 5.00 | | 118 | 70-130 | | | |
| Magnesium | 5.19 | 0.0500 | " | 5.00 | | 104 | 70-130 | | | |
| Sodium | 5.04 | 0.0500 | " | 5.00 | | 101 | 70-130 | | | |

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
 Project Manager: Sam Vogt

Reported:
 03/20/24 14:41

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

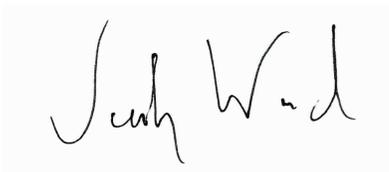
Summit Scientific

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

Batch BGL0405 - General Preparation

| Duplicate (BGL0405-DUP1) | Source: 2311627-01 | | | Prepared & Analyzed: 12/12/23 | | | | | | | |
|--------------------------|--------------------|--|---|-------------------------------|------|--|--|--|-------|----|--|
| % Solids | 92.4 | | % | | 92.6 | | | | 0.167 | 20 | |

Summit Scientific



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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

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

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

Batch BGL0634 - General Preparation

Blank (BGL0634-BLK1)

Prepared: 12/18/23 Analyzed: 12/19/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGL0634-BS1)

Prepared: 12/18/23 Analyzed: 12/19/23

Specific Conductance (EC) 0.150 0.0100 mmhos/cm 0.150 100 95-105

Duplicate (BGL0634-DUP1)

Source: 2311626-01

Prepared: 12/18/23 Analyzed: 12/19/23

Specific Conductance (EC) 0.287 0.0100 mmhos/cm 0.285 0.629 20

Batch BHB0594 - General Preparation

Blank (BHB0594-BLK1)

Prepared & Analyzed: 02/19/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHB0594-BS1)

Prepared & Analyzed: 02/19/24

Specific Conductance (EC) 0.157 0.0100 mmhos/cm 0.150 105 95-105

Duplicate (BHB0594-DUP1)

Source: 2311627-07RE1

Prepared & Analyzed: 02/19/24

Specific Conductance (EC) 2.57 0.0100 mmhos/cm 2.52 1.77 20

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

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 BGL0633 - General Preparation

LCS (BGL0633-BS1)

Prepared: 12/18/23 Analyzed: 12/19/23

| | | | | | | | | | |
|----|------|--|----------|------|--|------|--------|--|--|
| pH | 9.12 | | pH Units | 9.18 | | 99.3 | 95-105 | | |
|----|------|--|----------|------|--|------|--------|--|--|

Duplicate (BGL0633-DUP1)

Source: 2311626-01

Prepared: 12/18/23 Analyzed: 12/19/23

| | | | | | | | | | |
|----|------|--|----------|--|------|--|--|------|----|
| pH | 6.32 | | pH Units | | 6.39 | | | 1.10 | 20 |
|----|------|--|----------|--|------|--|--|------|----|

Batch BHB0056 - General Preparation

LCS (BHB0056-BS1)

Prepared & Analyzed: 02/02/24

| | | | | | | | | | |
|----|------|--|----------|------|--|------|--------|--|--|
| pH | 9.12 | | pH Units | 9.18 | | 99.3 | 95-105 | | |
|----|------|--|----------|------|--|------|--------|--|--|

Duplicate (BHB0056-DUP1)

Source: 2311564-01RE1

Prepared & Analyzed: 02/02/24

| | | | | | | | | | |
|----|------|--|----------|--|------|--|--|------|----|
| pH | 8.18 | | pH Units | | 8.90 | | | 8.43 | 20 |
|----|------|--|----------|--|------|--|--|------|----|

Summit Scientific

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

Project: Civitas - Aristocrat Angus 41-10C

Project Number: [none]
Project Manager: Sam Vogt

Reported:
03/20/24 14:41

Notes and Definitions

- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- 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.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- 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