

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 09, 2024

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

RE: Civitas - Aristocrat Angus 7-2-10 & 42-10

Work Order #2411118

Enclosed are the results of analyses for samples received by Summit Scientific on 11/06/24 17:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Natalie Tessier For Paul Shrewsbury  
President



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

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
 Project Manager: Sam Vogt

**Reported:**  
 12/09/24 07:55

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| FL-B16@5' | 2411118-01    | Soil   | 11/06/24 10:30 | 11/06/24 17:50 |
| FL-N04@4' | 2411118-02    | Soil   | 11/06/24 10:34 | 11/06/24 17:50 |
| FL-S04@4' | 2411118-03    | Soil   | 11/06/24 10:36 | 11/06/24 17:50 |
| FL-E04@4' | 2411118-04    | Soil   | 11/06/24 10:38 | 11/06/24 17:50 |
| FL-W04@4' | 2411118-05    | Soil   | 11/06/24 10:40 | 11/06/24 17:50 |
| FL-B18@5' | 2411118-06    | Soil   | 11/06/24 10:50 | 11/06/24 17:50 |
| FL-N05@4' | 2411118-07    | Soil   | 11/06/24 10:52 | 11/06/24 17:50 |
| FL-S05@4' | 2411118-08    | Soil   | 11/06/24 10:54 | 11/06/24 17:50 |
| FL-E05@4' | 2411118-09    | Soil   | 11/06/24 10:56 | 11/06/24 17:50 |
| FL-W05@4' | 2411118-10    | Soil   | 11/06/24 10:58 | 11/06/24 17:50 |
| FL-B19@5' | 2411118-11    | Soil   | 11/06/24 12:00 | 11/06/24 17:50 |
| FL-N06@4' | 2411118-12    | Soil   | 11/06/24 12:02 | 11/06/24 17:50 |
| FL-S06@4' | 2411118-13    | Soil   | 11/06/24 12:04 | 11/06/24 17:50 |
| FL-E06@4' | 2411118-14    | Soil   | 11/06/24 12:06 | 11/06/24 17:50 |
| FL-W06@4' | 2411118-15    | Soil   | 11/06/24 12:08 | 11/06/24 17:50 |
| GW08      | 2411118-16    | Water  | 11/06/24 10:32 | 11/06/24 17:50 |
| GW09      | 2411118-17    | Water  | 11/06/24 11:00 | 11/06/24 17:50 |
| GW10      | 2411118-18    | Water  | 11/06/24 12:10 | 11/06/24 17:50 |



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

|          |             |
|----------|-------------|
| Lab ID   | Page 1 of 2 |
| 241118.1 |             |

|                                      |   |                             |
|--------------------------------------|---|-----------------------------|
| Client: Civitas/Tasman               | Project Manager: Sam Vogt / Jacob Evans                 | Company: Tasman             |
| Address: 6855 W. 119th Ave.          | E-Mail: svogt@tasman-geo.com / jevans@civiresources.com | Project Name/Location:      |
| City/State/Zip: Broomfield, CO 80020 |   | AFE#: 23276                 |
| Phone: PM Phone # (610) 405-9078     | Project Name: Aristocrat Anyos 7-2-10, 42-10            | PO/Billing Codes: 8523, 198 |
| Sampler Name: Dan Tyson, Max Sherwin | Project Number: 23276                                   | Contact:                    |

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative |      |      |       | Matrix |      | Analysis Requested |       |       |                    |                   |     |             | Special Instructions |       |  |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|--------------------|-------|-------|--------------------|-------------------|-----|-------------|----------------------|-------|--|
|    |                    |              |              |                 | HCl          | HNO3 | None | Other | Water  | Soil | Air-Canister #     | Other | BTEXN | 1,2,4 + 1,3,5 TMBs | TPH (GRO,DRO,ORO) | PAH | pH, EC, SAR |                      | Boron | Metals   |
| 1  | FL-B16@5'          | 11/6/24      | 10:30        | 2               |              |      | X    |       |        | X    |                    |       |       |                    |                   |     |             |                      |       | pH, EC, SAR by Saturated paste preparation method<br>Boron by Hot Water Soluble preparation Method<br><br>Table 915 Metals - As, Ba, Cd, Cu, Pb, Ni, Se, Ag, Zn, Cr VI<br><br>Full Table 915 |
| 2  | FL-N04@4'          |              | 10:34        |                 |              |      |      |       |        |      |                    |       |       |                    |                   |     |             |                      |       |  |
| 3  | FL-S04@4'          |              | 10:36        |                 |              |      |      |       |        |      |                    |       |       |                    |                   |     |             |                      |       |  |
| 4  | FL-E04@4'          |              | 10:38        |                 |              |      |      |       |        |      |                    |       |       |                    |                   |     |             |                      |       |  |
| 5  | FL-W04@4'          |              | 10:40        |                 |              |      |      |       |        |      |                    |       |       |                    |                   |     |             |                      |       |  |
| 6  | FL-B18@5'          |              | 10:50        |                 |              |      |      |       |        |      |                    |       |       |                    |                   |     |             |                      |       |  |
| 7  | FL-N05@4'          |              | 10:52        |                 |              |      |      |       |        |      |                    |       |       |                    |                   |     |             |                      |       |  |
| 8  | FL-S05@4'          |              | 10:54        |                 |              |      |      |       |        |      |                    |       |       |                    |                   |     |             |                      |       |  |
| 9  | FL-E05@4'          |              | 10:56        |                 |              |      |      |       |        |      |                    |       |       |                    |                   |     |             |                      |       |  |
| 10 | FL-W05@4'          |              | 10:58        |                 |              |      |      |       |        |      |                    |       |       |                    |                   |     |             |                      |       |  |
| 11 | FL-B19@5'          |              | 12:00        |                 |              |      |      |       |        |      |                    |       |       |                    |                   |     |             |                      |       |  |
| 12 | FL-N06@4'          |              | 12:02        |                 |              |      |      |       |        |      |                    |       |       |                    |                   |     |             |                      |       |  |
| 13 | FL-S06@4'          |              | 12:04        |                 |              |      |      |       |        |      |                    |       |       |                    |                   |     |             |                      |       |  |
| 14 | FL-E06@4'          |              | 12:06        |                 |              |      |      |       |        |      |                    |       |       |                    |                   |     |             |                      |       |  |
| 15 | FL-W06@4'          |              | 12:08        |                 |              |      |      |       |        |      |                    |       |       |                    |                   |     |             |                      |       |  |

|                                     |                          |                                 |                          |                   |             |        |
|-------------------------------------|--------------------------|---------------------------------|--------------------------|-------------------|-------------|--------|
| Relinquished by: <i>Sam Vogt</i>    | Date/Time: 11/6/24 11:40 | Received by: <i>[Signature]</i> | Date/Time: 11/6/24 17:50 | TAT Business Days | Field DO    | Notes: |
|                                     |                          |                                 |                          | Same Day          | Field EC    |        |
| Relinquished by: <i>[Signature]</i> | Date/Time: 11/6/24 17:50 | Received by: <i>[Signature]</i> | Date/Time: 11/6/24 17:50 | 1 Day             | Field ORP   |        |
|                                     |                          |                                 |                          | 2 Days            | Field pH    |        |
| Relinquished by:                    | Date/Time:               | Received by:                    | Date/Time:               | 3 Days            | Field Temp. |        |
|                                     |                          |                                 |                          | Standard          | Field Turb. |        |
| Temperature Upon Receipt: 8.1       | Corrected Temperature: 8 | IR gun #: 1                     | HNO3 lot #:              |                   |             |        |



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Golden, CO 80403  
303-277-9310

|          |                          |
|----------|--------------------------|
| Lab ID   | Page <del>1</del> 2 of 2 |
| 241118-2 |                          |

|                                      |   |                             |  |
|--------------------------------------|---|-----------------------------|--|
| Send Data To:                        |   | Send Invoice To:            |  |
| Client: Civitas/Tasman               | Project Manager: Sam Vogt / Jacob Evans                 | Company: Tasman             |  |
| Address: 6855 W. 119th Ave.          | E-Mail: svogt@tasman-geo.com / jevans@civiresources.com | Project Name/Location:      |  |
| City/State/Zip: Broomfield, CO 80020 |   | AFE#: 23276                 |  |
| Phone: PM Phone # (610) 405-9078     | Project Name: Aristocrat 7-2-10; 42-10                  | PO/Billing Codes: 8523, 198 |  |
| Sampler Name: Dan Tyson, Max Shelwin | Project Number: 23276                                   | Contact:                    |  |

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative |      |      |       | Matrix |      |                | Analysis Requested |       |                    |                   |     |             | Special Instructions |       |        |  |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|----------------|--------------------|-------|--------------------|-------------------|-----|-------------|----------------------|-------|--------|--|
|    |                    |              |              |                 | HCl          | HNO3 | None | Other | Water  | Soil | Air-Canister # | Other              | BTEXN | 1,2,4 + 1,3,5 TMBs | TPH (GRO,DRO,ORO) | PAH | pH, EC, SAR |                      | Boron | Metals |  |
| 1  | GW 8               | 11/26/24     | 10:32        | 4               | 3            |      | ↓    |       | X      |      |                |                    |       | X                  | X                 |     |             |                      |       | X      | pH, EC, SAR by Saturated paste preparation method<br>Boron by Hot Water Soluble preparation Method<br><br>Table 915 Metals - As, Ba, Cd, Cu, Pb, Ni, Se, Ag, Zn, Cr VI |
| 2  | GW 9               | ↓            | 11:00        | ↓               | ↓            |      | ↓    |       |        |      |                |                    |       | ↓                  | ↓                 |     |             |                      |       | ↓      |  |
| 3  | GW 10              |              | 12:10        | ↓               | ↓            |      | ↓    |       |        |      |                |                    |       | ↓                  | ↓                 |     |             |                      |       | ↓      |  |
| 4  |                    |              |              |                 |              |      |      |       |        |      |                |                    |       |                    |                   |     |             |                      |       |        |  |
| 5  |                    |              |              |                 |              |      |      |       |        |      |                |                    |       |                    |                   |     |             |                      |       |        |  |
| 6  |                    |              |              |                 |              |      |      |       |        |      |                |                    |       |                    |                   |     |             |                      |       |        |  |
| 7  |                    |              |              |                 |              |      |      |       |        |      |                |                    |       |                    |                   |     |             |                      |       |        |  |
| 8  |                    |              |              |                 |              |      |      |       |        |      |                |                    |       |                    |                   |     |             |                      |       |        |  |
| 9  |                    |              |              |                 |              |      |      |       |        |      |                |                    |       |                    |                   |     |             |                      |       |        |  |
| 10 |                    |              |              |                 |              |      |      |       |        |      |                |                    |       |                    |                   |     |             |                      |       |        |  |
| 11 |                    |              |              |                 |              |      |      |       |        |      |                |                    |       |                    |                   |     |             |                      |       |        |  |
| 12 |                    |              |              |                 |              |      |      |       |        |      |                |                    |       |                    |                   |     |             |                      |       |        |  |
| 13 |                    |              |              |                 |              |      |      |       |        |      |                |                    |       |                    |                   |     |             |                      |       |        |  |
| 14 |                    |              |              |                 |              |      |      |       |        |      |                |                    |       |                    |                   |     |             |                      |       |        |  |
| 15 |                    |              |              |                 |              |      |      |       |        |      |                |                    |       |                    |                   |     |             |                      |       |        |  |

|                                     |                           |                                 |                           |                   |             |        |
|-------------------------------------|---------------------------|---------------------------------|---------------------------|-------------------|-------------|--------|
| Relinquished by: <i>Dr. Tom</i>     | Date/Time: 17:40          | Received by: <i>[Signature]</i> | Date/Time: 11/26/24 17:50 | TAT Business Days | Field DO    | Notes: |
|                                     |                           |                                 |                           | Same Day          | Field EC    |        |
| Relinquished by: <i>Tasman/lock</i> | Date/Time: 11/26/24 17:50 | Received by: <i>[Signature]</i> | Date/Time: 11/26/24 17:50 | 1 Day             | Field ORP   |        |
|                                     |                           |                                 |                           | 2 Days            | Field pH    |        |
| Relinquished by:                    | Date/Time:                | Received by:                    | Date/Time:                | 3 Days            | Field Temp. |        |
|                                     |                           |                                 |                           | Standard          | Field Turb. |        |
| Temperature Upon Receipt: 8.1       | Corrected Temperature: 8  | IR gun #: 1                     | HNO3 lot #:               |                   |             |        |

S<sub>2</sub>

2/2  
Sample Receipt Checklist

S2 Work Order# 241118

Client: Curtis Roman Client Project ID: Aristocrat 7-2-10, 42-10

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

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

Temp (°C) 8.1 Thermometer # 1

|   | Yes                                 | No                                  | N/A                                 | Comments (if any) |
|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| If samples require cooling, is the temperature < 6°C? <sup>(1)</sup><br>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? <sup>(1)</sup>   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <u>on 2/2/10</u>  |
| 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?<br>Note the short hold analysis in the comments column<br>- pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                   |
| Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Were all samples received intact? <sup>(1)</sup>  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Was adequate sample volume provided? <sup>(1)</sup>   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| For volatiles in water – is there headspace present? If yes, contact client and note in narrative.  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                   |
| Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <u>HCl</u>        |
| If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                   |
| If dissolved metals are requested, were samples field filtered?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                   |

Additional Comments (if any):

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

AS  
Custodian Printed Name

11/6/24  
Date/Time



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

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-B16@5'**  
**2411118-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/06/24 10:30**

| Analyte                     | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    |  | mg/kg | 1        | BHK0495 | 11/11/24 | 11/11/24 | EPA 8260B |       |
| Toluene                     | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene                | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total)             | ND     | 0.010     |  | "     | "        | "       | "        | "        | "         |       |
| 1,2,4-Trimethylbenzene      | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| 1,3,5-Trimethylbenzene      | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Naphthalene                 | ND     | 0.0038    |  | "     | "        | "       | "        | "        | "         |       |
| Gasoline Range Hydrocarbons | ND     | 0.50      |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/06/24 10:30**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0399 | 99.8 %    |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0403 | 101 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0387 | 96.8 %    |  | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/06/24 10:30**

| Analyte       | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |  |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        |  | mg/kg | 1        | BHK0497 | 11/11/24 | 11/11/24 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/06/24 10:30**

| Analyte                | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 10.4   | 83.0 %    |  | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

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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 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-B16@5'**  
**2411118-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/06/24 10:30**

| Analyte                  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene             | ND     | 0.00500         | mg/kg | 1        | BHK0465 | 11/11/24 | 11/11/24 | EPA 8270D SIM |       |
| Anthracene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) anthracene     | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) pyrene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (b) fluoranthene   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (k) fluoranthene   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Chrysene                 | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Dibenz (a,h) anthracene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluorene                 | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Indeno (1,2,3-cd) pyrene | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene                   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **11/06/24 10:30**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0184 | 55.3 %          | 40-140 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0180 | 53.9 %          | 40-140 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/06/24 10:30**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron   | ND     | 2.00            | mg/L  | 1        | BHK0632 | 11/13/24 | 11/20/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **11/06/24 10:30**

| 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 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-B16@5'**  
**2411118-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

| Analyte  | Result | Limit  | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic  | 2.32   | 0.200  | mg/kg dry | 1        | BHK1312 | 11/26/24 | 12/06/24 | EPA 6020B |       |
| Barium   | 48.5   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | ND     | 0.200  | "         | "        | "       | "        | "        | "         |       |
| Copper   | 3.06   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Lead     | 3.62   | 0.200  | "         | "        | "       | "        | "        | "         |       |
| Nickel   | 3.33   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Silver   | 0.0215 | 0.0200 | "         | "        | "       | "        | "        | "         |       |
| Zinc     | 13.4   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Selenium | ND     | 0.260  | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/06/24 10:30**

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BHK0790 | 11/15/24 | 11/19/24 | EPA 7196A |       |

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

Date Sampled: **11/06/24 10:30**

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 21.3   | 0.0500          | mg/L dry | 1        | BHK0870 | 11/15/24 | 11/18/24 | EPA 6020B |       |
| Magnesium | 5.75   | 0.0500          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 57.5   | 0.0500          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/06/24 10:30**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 2.85   | 0.00100         | units | 1        | BHK0975 | 11/19/24 | 11/19/24 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-B16@5'**  
**2411118-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/06/24 10:30**

| Analyte  | Result      | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|-------------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
|          |             | Limit     |  |       |          |         |          |          |             |       |
| % Solids | <b>84.9</b> |           |  | %     | 1        | BHK0580 | 11/12/24 | 11/12/24 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/06/24 10:30**

| Analyte                   | Result       | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|                           |              | Limit     |  |          |          |         |          |          |           |       |
| Specific Conductance (EC) | <b>0.464</b> | 0.0100    |  | mmhos/cm | 1        | BHK0871 | 11/15/24 | 11/19/24 | EPA 120.1 |       |

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

Date Sampled: **11/06/24 10:30**

| Analyte | Result      | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|-------------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|         |             | Limit     |  |          |          |         |          |          |           |       |
| pH      | <b>8.07</b> |           |  | pH Units | 1        | BHK0872 | 11/15/24 | 11/19/24 | EPA 9045D |       |

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-N04@4'**  
**2411118-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/06/24 10:34**

| Analyte                     | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    |  | mg/kg | 1        | BHK0495 | 11/11/24 | 11/11/24 | EPA 8260B |       |
| Toluene                     | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene                | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total)             | ND     | 0.010     |  | "     | "        | "       | "        | "        | "         |       |
| 1,2,4-Trimethylbenzene      | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| 1,3,5-Trimethylbenzene      | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Naphthalene                 | ND     | 0.0038    |  | "     | "        | "       | "        | "        | "         |       |
| Gasoline Range Hydrocarbons | ND     | 0.50      |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/06/24 10:34**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0380 | 95.0 %    |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0398 | 99.6 %    |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0385 | 96.3 %    |  | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/06/24 10:34**

| Analyte       | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |  |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        |  | mg/kg | 1        | BHK0497 | 11/11/24 | 11/11/24 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/06/24 10:34**

| Analyte                | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 11.2   | 90.0 %    |  | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-N04@4'**  
**2411118-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/06/24 10:34**

| Analyte                  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene             | ND     | 0.00500         | mg/kg | 1        | BHK0465 | 11/11/24 | 11/11/24 | EPA 8270D SIM |       |
| Anthracene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) anthracene     | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) pyrene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (b) fluoranthene   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (k) fluoranthene   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Chrysene                 | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Dibenz (a,h) anthracene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluorene                 | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Indeno (1,2,3-cd) pyrene | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene                   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **11/06/24 10:34**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0191 | 57.2 %          | 40-140 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0204 | 61.1 %          | 40-140 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/06/24 10:34**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron   | ND     | 2.00            | mg/L  | 1        | BHK0632 | 11/13/24 | 11/21/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **11/06/24 10:34**

| 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 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-N04@4'**  
**2411118-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

| Analyte  | Result | Limit  | Units     | Dilution | Batch   | Prepared | Analyzed | Method    |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|
| Arsenic  | 2.23   | 0.200  | mg/kg dry | 1        | BHK1312 | 11/26/24 | 12/06/24 | EPA 6020B |
| Barium   | 44.6   | 0.400  | "         | "        | "       | "        | "        | "         |
| Cadmium  | ND     | 0.200  | "         | "        | "       | "        | "        | "         |
| Copper   | 3.09   | 0.400  | "         | "        | "       | "        | "        | "         |
| Lead     | 3.58   | 0.200  | "         | "        | "       | "        | "        | "         |
| Nickel   | 3.55   | 0.400  | "         | "        | "       | "        | "        | "         |
| Silver   | 0.0233 | 0.0200 | "         | "        | "       | "        | "        | "         |
| Zinc     | 14.6   | 0.400  | "         | "        | "       | "        | "        | "         |
| Selenium | ND     | 0.260  | "         | "        | "       | "        | "        | "         |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/06/24 10:34**

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BHK0790 | 11/15/24 | 11/19/24 | EPA 7196A |       |

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

Date Sampled: **11/06/24 10:34**

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 37.8   | 0.0500          | mg/L dry | 1        | BHK0870 | 11/15/24 | 11/18/24 | EPA 6020B |       |
| Magnesium | 9.59   | 0.0500          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 74.9   | 0.0500          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/06/24 10:34**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 2.82   | 0.00100         | units | 1        | BHK0975 | 11/19/24 | 11/19/24 | 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 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-N04@4'**  
**2411118-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/06/24 10:34**

| Analyte  | Result      | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|-------------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
|          |             | Limit     |  |       |          |         |          |          |             |       |
| % Solids | <b>81.0</b> |           |  | %     | 1        | BHK0580 | 11/12/24 | 11/12/24 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/06/24 10:34**

| Analyte                   | Result       | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|                           |              | Limit     |  |          |          |         |          |          |           |       |
| Specific Conductance (EC) | <b>0.589</b> | 0.0100    |  | mmhos/cm | 1        | BHK0871 | 11/15/24 | 11/19/24 | EPA 120.1 |       |

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

Date Sampled: **11/06/24 10:34**

| Analyte | Result      | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|-------------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|         |             | Limit     |  |          |          |         |          |          |           |       |
| pH      | <b>7.93</b> |           |  | pH Units | 1        | BHK0872 | 11/15/24 | 11/19/24 | EPA 9045D |       |

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-S04@4'**  
**2411118-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/06/24 10:36**

| Analyte                     | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    |  | mg/kg | 1        | BHK0495 | 11/11/24 | 11/11/24 | EPA 8260B |       |
| Toluene                     | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene                | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total)             | ND     | 0.010     |  | "     | "        | "       | "        | "        | "         |       |
| 1,2,4-Trimethylbenzene      | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| 1,3,5-Trimethylbenzene      | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Naphthalene                 | ND     | 0.0038    |  | "     | "        | "       | "        | "        | "         |       |
| Gasoline Range Hydrocarbons | ND     | 0.50      |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/06/24 10:36**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0432 | 108 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0409 | 102 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0403 | 101 %     |  | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/06/24 10:36**

| Analyte       | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |  |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        |  | mg/kg | 1        | BHK0497 | 11/11/24 | 11/11/24 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/06/24 10:36**

| Analyte                | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 10.1   | 80.9 %    |  | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-S04@4'**  
**2411118-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/06/24 10:36**

| Analyte                  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene             | ND     | 0.00500         | mg/kg | 1        | BHK0465 | 11/11/24 | 11/11/24 | EPA 8270D SIM |       |
| Anthracene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) anthracene     | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) pyrene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (b) fluoranthene   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (k) fluoranthene   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Chrysene                 | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Dibenz (a,h) anthracene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluorene                 | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Indeno (1,2,3-cd) pyrene | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene                   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **11/06/24 10:36**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0208 | 62.4 %          | 40-140 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0207 | 62.1 %          | 40-140 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/06/24 10:36**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron   | ND     | 2.00            | mg/L  | 1        | BHK0632 | 11/13/24 | 11/21/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **11/06/24 10:36**

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

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-S04@4'**  
**2411118-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

| Analyte  | Result | Limit  | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic  | 2.20   | 0.200  | mg/kg dry | 1        | BHK1312 | 11/26/24 | 12/06/24 | EPA 6020B |       |
| Barium   | 58.6   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | ND     | 0.200  | "         | "        | "       | "        | "        | "         |       |
| Copper   | 3.57   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Lead     | 3.85   | 0.200  | "         | "        | "       | "        | "        | "         |       |
| Nickel   | 3.93   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Silver   | 0.0218 | 0.0200 | "         | "        | "       | "        | "        | "         |       |
| Zinc     | 16.5   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Selenium | ND     | 0.260  | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/06/24 10:36**

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BHK0790 | 11/15/24 | 11/19/24 | EPA 7196A |       |

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

Date Sampled: **11/06/24 10:36**

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 39.5   | 0.0500          | mg/L dry | 1        | BHK0870 | 11/15/24 | 11/18/24 | EPA 6020B |       |
| Magnesium | 10.1   | 0.0500          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 92.0   | 0.0500          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/06/24 10:36**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 3.38   | 0.00100         | units | 1        | BHK0975 | 11/19/24 | 11/19/24 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-S04@4'**  
**2411118-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/06/24 10:36**

| Analyte  | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
|          |        | Limit     |  |       |          |         |          |          |             |       |
| % Solids | 83.0   |           |  | %     | 1        | BHK0580 | 11/12/24 | 11/12/24 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/06/24 10:36**

| Analyte                   | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|                           |        | Limit     |  |          |          |         |          |          |           |       |
| Specific Conductance (EC) | 0.603  | 0.0100    |  | mmhos/cm | 1        | BHK0871 | 11/15/24 | 11/19/24 | EPA 120.1 |       |

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

Date Sampled: **11/06/24 10:36**

| Analyte | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |  |          |          |         |          |          |           |       |
| pH      | 8.01   |           |  | pH Units | 1        | BHK0872 | 11/15/24 | 11/19/24 | EPA 9045D |       |

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

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-E04@4'**  
**2411118-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/06/24 10:38**

| Analyte                     | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    |  | mg/kg | 1        | BHK0495 | 11/11/24 | 11/11/24 | EPA 8260B |       |
| Toluene                     | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene                | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total)             | ND     | 0.010     |  | "     | "        | "       | "        | "        | "         |       |
| 1,2,4-Trimethylbenzene      | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| 1,3,5-Trimethylbenzene      | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Naphthalene                 | ND     | 0.0038    |  | "     | "        | "       | "        | "        | "         |       |
| Gasoline Range Hydrocarbons | ND     | 0.50      |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/06/24 10:38**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0416 | 104 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0409 | 102 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0408 | 102 %     |  | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/06/24 10:38**

| Analyte       | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |  |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        |  | mg/kg | 1        | BHK0497 | 11/11/24 | 11/11/24 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/06/24 10:38**

| Analyte                | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 8.02   | 64.2 %    |  | 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 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-E04@4'**  
**2411118-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/06/24 10:38**

| Analyte                  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene             | ND     | 0.00500         | mg/kg | 1        | BHK0465 | 11/11/24 | 11/11/24 | EPA 8270D SIM |       |
| Anthracene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) anthracene     | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) pyrene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (b) fluoranthene   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (k) fluoranthene   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Chrysene                 | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Dibenz (a,h) anthracene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluorene                 | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Indeno (1,2,3-cd) pyrene | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene                   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **11/06/24 10:38**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0182 | 54.7 %          | 40-140 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0200 | 59.9 %          | 40-140 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/06/24 10:38**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron   | ND     | 2.00            | mg/L  | 1        | BHK0632 | 11/13/24 | 11/21/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **11/06/24 10:38**

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

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-E04@4'**  
**2411118-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

| Analyte  | Result | Limit  | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic  | 1.84   | 0.200  | mg/kg dry | 1        | BHK1312 | 11/26/24 | 12/05/24 | EPA 6020B |       |
| Barium   | 28.2   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | ND     | 0.200  | "         | "        | "       | "        | "        | "         |       |
| Copper   | 2.98   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Lead     | 4.57   | 0.200  | "         | "        | "       | "        | "        | "         |       |
| Nickel   | 2.50   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Silver   | ND     | 0.0200 | "         | "        | "       | "        | "        | "         |       |
| Zinc     | 11.7   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Selenium | ND     | 0.260  | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/06/24 10:38**

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BHK0790 | 11/15/24 | 11/19/24 | EPA 7196A |       |

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

Date Sampled: **11/06/24 10:38**

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 77.1   | 0.0500          | mg/L dry | 1        | BHK0870 | 11/15/24 | 11/18/24 | EPA 6020B |       |
| Magnesium | 19.7   | 0.0500          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 145    | 0.0500          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/06/24 10:38**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 3.81   | 0.00100         | units | 1        | BHK0975 | 11/19/24 | 11/19/24 | 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 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-E04@4'**  
**2411118-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/06/24 10:38**

| Analyte  | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
|          |        | Limit     |  |       |          |         |          |          |             |       |
| % Solids | 83.2   |           |  | %     | 1        | BHK0580 | 11/12/24 | 11/12/24 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/06/24 10:38**

| Analyte                   | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|                           |        | Limit     |  |          |          |         |          |          |           |       |
| Specific Conductance (EC) | 1.28   | 0.0100    |  | mmhos/cm | 1        | BHK0871 | 11/15/24 | 11/19/24 | EPA 120.1 |       |

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

Date Sampled: **11/06/24 10:38**

| Analyte | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |  |          |          |         |          |          |           |       |
| pH      | 7.94   |           |  | pH Units | 1        | BHK0872 | 11/15/24 | 11/19/24 | EPA 9045D |       |

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-W04@4'**  
**2411118-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/06/24 10:40**

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene                     | ND     | 0.0020          | mg/kg | 1        | BHK0495 | 11/11/24 | 11/12/24 | EPA 8260B |       |
| Toluene                     | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene                | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total)             | ND     | 0.010           | "     | "        | "       | "        | "        | "         |       |
| 1,2,4-Trimethylbenzene      | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| 1,3,5-Trimethylbenzene      | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Naphthalene                 | ND     | 0.0038          | "     | "        | "       | "        | "        | "         |       |
| Gasoline Range Hydrocarbons | ND     | 0.50            | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/06/24 10:40**

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0409 | 102 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0404 | 101 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0390 | 97.5 %          | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/06/24 10:40**

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | BHK0497 | 11/11/24 | 11/12/24 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/06/24 10:40**

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 10.9   | 87.3 %          | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-W04@4'**  
**2411118-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/06/24 10:40**

| Analyte                  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene             | ND     | 0.00500         | mg/kg | 1        | BHK0465 | 11/11/24 | 11/11/24 | EPA 8270D SIM |       |
| Anthracene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) anthracene     | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) pyrene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (b) fluoranthene   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (k) fluoranthene   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Chrysene                 | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Dibenz (a,h) anthracene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluorene                 | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Indeno (1,2,3-cd) pyrene | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene                   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **11/06/24 10:40**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0186 | 55.9 %          | 40-140 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0192 | 57.6 %          | 40-140 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/06/24 10:40**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron   | ND     | 2.00            | mg/L  | 1        | BHK0632 | 11/13/24 | 11/21/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **11/06/24 10:40**

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

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-W04@4'**  
**2411118-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

| Analyte  | Result | Limit  | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic  | 2.55   | 0.200  | mg/kg dry | 1        | BHK1312 | 11/26/24 | 12/05/24 | EPA 6020B |       |
| Barium   | 61.3   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | ND     | 0.200  | "         | "        | "       | "        | "        | "         |       |
| Copper   | 3.85   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Lead     | 3.99   | 0.200  | "         | "        | "       | "        | "        | "         |       |
| Nickel   | 4.46   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Silver   | 0.0249 | 0.0200 | "         | "        | "       | "        | "        | "         |       |
| Zinc     | 18.7   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Selenium | ND     | 0.260  | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/06/24 10:40**

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BHK0790 | 11/15/24 | 11/19/24 | EPA 7196A |       |

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

Date Sampled: **11/06/24 10:40**

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 27.4   | 0.0500          | mg/L dry | 1        | BHK0870 | 11/15/24 | 11/18/24 | EPA 6020B |       |
| Magnesium | 7.19   | 0.0500          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 69.1   | 0.0500          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/06/24 10:40**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 3.04   | 0.00100         | units | 1        | BHK0975 | 11/19/24 | 11/19/24 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-W04@4'**  
**2411118-05 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/06/24 10:40**

| Analyte  | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
|          |        | Limit     |  |       |          |         |          |          |             |       |
| % Solids | 83.8   |           |  | %     | 1        | BHK0580 | 11/12/24 | 11/12/24 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/06/24 10:40**

| Analyte                   | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|                           |        | Limit     |  |          |          |         |          |          |           |       |
| Specific Conductance (EC) | 0.535  | 0.0100    |  | mmhos/cm | 1        | BHK0871 | 11/15/24 | 11/19/24 | EPA 120.1 |       |

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

Date Sampled: **11/06/24 10:40**

| Analyte | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |  |          |          |         |          |          |           |       |
| pH      | 8.04   |           |  | pH Units | 1        | BHK0872 | 11/15/24 | 11/19/24 | EPA 9045D |       |

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-B18@5'**  
**2411118-06 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/06/24 10:50**

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene                     | ND     | 0.0020          | mg/kg | 1        | BHK0495 | 11/11/24 | 11/12/24 | EPA 8260B |       |
| Toluene                     | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene                | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total)             | ND     | 0.010           | "     | "        | "       | "        | "        | "         |       |
| 1,2,4-Trimethylbenzene      | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| 1,3,5-Trimethylbenzene      | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Naphthalene                 | ND     | 0.0038          | "     | "        | "       | "        | "        | "         |       |
| Gasoline Range Hydrocarbons | ND     | 0.50            | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/06/24 10:50**

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0407 | 102 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0407 | 102 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0386 | 96.4 %          | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/06/24 10:50**

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | BHK0497 | 11/11/24 | 11/12/24 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/06/24 10:50**

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 11.0   | 88.1 %          | 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 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-B18@5'**  
**2411118-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/06/24 10:50**

| Analyte                  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene             | ND     | 0.00500         | mg/kg | 1        | BHK0465 | 11/11/24 | 11/11/24 | EPA 8270D SIM |       |
| Anthracene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) anthracene     | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) pyrene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (b) fluoranthene   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (k) fluoranthene   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Chrysene                 | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Dibenz (a,h) anthracene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluorene                 | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Indeno (1,2,3-cd) pyrene | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene                   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **11/06/24 10:50**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0189 | 56.6 %          | 40-140 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0174 | 52.2 %          | 40-140 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/06/24 10:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron   | ND     | 2.00            | mg/L  | 1        | BHK0632 | 11/13/24 | 11/21/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **11/06/24 10:50**

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

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-B18@5'**  
**2411118-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

| Analyte  | Result | Limit  | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic  | 2.47   | 0.200  | mg/kg dry | 1        | BHK1312 | 11/26/24 | 12/05/24 | EPA 6020B |       |
| Barium   | 41.2   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | ND     | 0.200  | "         | "        | "       | "        | "        | "         |       |
| Copper   | 3.67   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Lead     | 3.79   | 0.200  | "         | "        | "       | "        | "        | "         |       |
| Nickel   | 4.24   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Silver   | 0.0274 | 0.0200 | "         | "        | "       | "        | "        | "         |       |
| Zinc     | 18.0   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Selenium | ND     | 0.260  | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/06/24 10:50**

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BHK0790 | 11/15/24 | 11/19/24 | EPA 7196A |       |

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

Date Sampled: **11/06/24 10:50**

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 25.4   | 0.0500          | mg/L dry | 1        | BHK0870 | 11/15/24 | 11/18/24 | EPA 6020B |       |
| Magnesium | 5.97   | 0.0500          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 17.5   | 0.0500          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/06/24 10:50**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.812  | 0.00100         | units | 1        | BHK0975 | 11/19/24 | 11/19/24 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-B18@5'**  
**2411118-06 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/06/24 10:50**

| Analyte  | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
|          |        | Limit     |  |       |          |         |          |          |             |       |
| % Solids | 79.8   |           |  | %     | 1        | BHK0580 | 11/12/24 | 11/12/24 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/06/24 10:50**

| Analyte                   | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|                           |        | Limit     |  |          |          |         |          |          |           |       |
| Specific Conductance (EC) | 0.328  | 0.0100    |  | mmhos/cm | 1        | BHK0871 | 11/15/24 | 11/19/24 | EPA 120.1 |       |

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

Date Sampled: **11/06/24 10:50**

| Analyte | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |  |          |          |         |          |          |           |       |
| pH      | 7.99   |           |  | pH Units | 1        | BHK0872 | 11/15/24 | 11/19/24 | EPA 9045D |       |

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-N05@4'**  
**2411118-07 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/06/24 10:52**

| Analyte                     | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    |  | mg/kg | 1        | BHK0495 | 11/11/24 | 11/12/24 | EPA 8260B |       |
| Toluene                     | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene                | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total)             | ND     | 0.010     |  | "     | "        | "       | "        | "        | "         |       |
| 1,2,4-Trimethylbenzene      | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| 1,3,5-Trimethylbenzene      | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Naphthalene                 | ND     | 0.0038    |  | "     | "        | "       | "        | "        | "         |       |
| Gasoline Range Hydrocarbons | ND     | 0.50      |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/06/24 10:52**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0383 | 95.8 %    |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0413 | 103 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0395 | 98.8 %    |  | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/06/24 10:52**

| Analyte       | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |  |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        |  | mg/kg | 1        | BHK0497 | 11/11/24 | 11/12/24 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/06/24 10:52**

| Analyte                | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 10.4   | 83.1 %    |  | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-N05@4'**  
**2411118-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/06/24 10:52**

| Analyte                  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene             | ND     | 0.00500         | mg/kg | 1        | BHK0465 | 11/11/24 | 11/11/24 | EPA 8270D SIM |       |
| Anthracene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) anthracene     | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) pyrene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (b) fluoranthene   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (k) fluoranthene   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Chrysene                 | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Dibenz (a,h) anthracene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluorene                 | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Indeno (1,2,3-cd) pyrene | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene                   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **11/06/24 10:52**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0168 | 50.3 %          | 40-140 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0174 | 52.3 %          | 40-140 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/06/24 10:52**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron   | ND     | 2.00            | mg/L  | 1        | BHK0632 | 11/13/24 | 11/21/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **11/06/24 10:52**

| 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 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-N05@4'**  
**2411118-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

| Analyte  | Result | Limit  | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic  | 2.04   | 0.200  | mg/kg dry | 1        | BHK1312 | 11/26/24 | 12/05/24 | EPA 6020B |       |
| Barium   | 40.3   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | ND     | 0.200  | "         | "        | "       | "        | "        | "         |       |
| Copper   | 2.69   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Lead     | 3.35   | 0.200  | "         | "        | "       | "        | "        | "         |       |
| Nickel   | 2.76   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Silver   | ND     | 0.0200 | "         | "        | "       | "        | "        | "         |       |
| Zinc     | 12.4   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Selenium | ND     | 0.260  | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/06/24 10:52**

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BHK0790 | 11/15/24 | 11/19/24 | EPA 7196A |       |

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

Date Sampled: **11/06/24 10:52**

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 20.2   | 0.0500          | mg/L dry | 1        | BHK0870 | 11/15/24 | 11/18/24 | EPA 6020B |       |
| Magnesium | 4.41   | 0.0500          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 12.5   | 0.0500          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/06/24 10:52**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.657  | 0.00100         | units | 1        | BHK0975 | 11/19/24 | 11/19/24 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-N05@4'**  
**2411118-07 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/06/24 10:52**

| Analyte  | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
|          |        | Limit     |  |       |          |         |          |          |             |       |
| % Solids | 85.3   |           |  | %     | 1        | BHK0580 | 11/12/24 | 11/12/24 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/06/24 10:52**

| Analyte                   | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|                           |        | Limit     |  |          |          |         |          |          |           |       |
| Specific Conductance (EC) | 0.348  | 0.0100    |  | mmhos/cm | 1        | BHK0871 | 11/15/24 | 11/19/24 | EPA 120.1 |       |

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

Date Sampled: **11/06/24 10:52**

| Analyte | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |  |          |          |         |          |          |           |       |
| pH      | 8.16   |           |  | pH Units | 1        | BHK0872 | 11/15/24 | 11/19/24 | EPA 9045D |       |

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-S05@4'**  
**2411118-08 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/06/24 10:54**

| Analyte                     | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    |  | mg/kg | 1        | BHK0495 | 11/11/24 | 11/12/24 | EPA 8260B |       |
| Toluene                     | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene                | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total)             | ND     | 0.010     |  | "     | "        | "       | "        | "        | "         |       |
| 1,2,4-Trimethylbenzene      | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| 1,3,5-Trimethylbenzene      | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Naphthalene                 | ND     | 0.0038    |  | "     | "        | "       | "        | "        | "         |       |
| Gasoline Range Hydrocarbons | ND     | 0.50      |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/06/24 10:54**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0371 | 92.8 %    |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0400 | 100 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0380 | 95.0 %    |  | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/06/24 10:54**

| Analyte       | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |  |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        |  | mg/kg | 1        | BHK0497 | 11/11/24 | 11/12/24 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/06/24 10:54**

| Analyte                | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 9.37   | 74.9 %    |  | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-S05@4'**  
**2411118-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/06/24 10:54**

| Analyte                  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene             | ND     | 0.00500         | mg/kg | 1        | BHK0465 | 11/11/24 | 11/11/24 | EPA 8270D SIM |       |
| Anthracene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) anthracene     | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) pyrene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (b) fluoranthene   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (k) fluoranthene   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Chrysene                 | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Dibenz (a,h) anthracene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluorene                 | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Indeno (1,2,3-cd) pyrene | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene                   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **11/06/24 10:54**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0145 | 43.5 %          | 40-140 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0148 | 44.3 %          | 40-140 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/06/24 10:54**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron   | ND     | 2.00            | mg/L  | 1        | BHK0632 | 11/13/24 | 11/21/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **11/06/24 10:54**

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

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-S05@4'**  
**2411118-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

| Analyte  | Result | Limit  | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic  | 1.96   | 0.200  | mg/kg dry | 1        | BHK1312 | 11/26/24 | 12/05/24 | EPA 6020B |       |
| Barium   | 33.8   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | ND     | 0.200  | "         | "        | "       | "        | "        | "         |       |
| Copper   | 3.13   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Lead     | 3.50   | 0.200  | "         | "        | "       | "        | "        | "         |       |
| Nickel   | 2.82   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Silver   | ND     | 0.0200 | "         | "        | "       | "        | "        | "         |       |
| Zinc     | 12.8   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Selenium | ND     | 0.260  | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/06/24 10:54**

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BHK0790 | 11/15/24 | 11/19/24 | EPA 7196A |       |

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

Date Sampled: **11/06/24 10:54**

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 24.3   | 0.0500          | mg/L dry | 1        | BHK0870 | 11/15/24 | 11/18/24 | EPA 6020B |       |
| Magnesium | 6.94   | 0.0500          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 85.9   | 0.0500          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/06/24 10:54**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 3.96   | 0.00100         | units | 1        | BHK0975 | 11/19/24 | 11/19/24 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-S05@4'**  
**2411118-08 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/06/24 10:54**

| Analyte  | Result      | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|-------------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
|          |             | Limit     |  |       |          |         |          |          |             |       |
| % Solids | <b>84.0</b> |           |  | %     | 1        | BHK0580 | 11/12/24 | 11/12/24 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/06/24 10:54**

| Analyte                   | Result       | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|                           |              | Limit     |  |          |          |         |          |          |           |       |
| Specific Conductance (EC) | <b>0.846</b> | 0.0100    |  | mmhos/cm | 1        | BHK0871 | 11/15/24 | 11/19/24 | EPA 120.1 |       |

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

Date Sampled: **11/06/24 10:54**

| Analyte | Result      | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|-------------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|         |             | Limit     |  |          |          |         |          |          |           |       |
| pH      | <b>8.32</b> |           |  | pH Units | 1        | BHK0872 | 11/15/24 | 11/19/24 | EPA 9045D |       |

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-E05@4'**  
**2411118-09 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/06/24 10:56**

| Analyte                     | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    |  | mg/kg | 1        | BHK0495 | 11/11/24 | 11/12/24 | EPA 8260B |       |
| Toluene                     | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene                | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total)             | ND     | 0.010     |  | "     | "        | "       | "        | "        | "         |       |
| 1,2,4-Trimethylbenzene      | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| 1,3,5-Trimethylbenzene      | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Naphthalene                 | ND     | 0.0038    |  | "     | "        | "       | "        | "        | "         |       |
| Gasoline Range Hydrocarbons | ND     | 0.50      |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/06/24 10:56**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0391 | 97.6 %    |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0397 | 99.2 %    |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0391 | 97.6 %    |  | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/06/24 10:56**

| Analyte       | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |  |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        |  | mg/kg | 1        | BHK0497 | 11/11/24 | 11/12/24 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/06/24 10:56**

| Analyte                | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 9.20   | 73.6 %    |  | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-E05@4'**  
**2411118-09 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/06/24 10:56**

| Analyte                  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene             | ND     | 0.00500         | mg/kg | 1        | BHK0465 | 11/11/24 | 11/11/24 | EPA 8270D SIM |       |
| Anthracene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) anthracene     | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) pyrene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (b) fluoranthene   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (k) fluoranthene   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Chrysene                 | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Dibenz (a,h) anthracene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluorene                 | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Indeno (1,2,3-cd) pyrene | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene                   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **11/06/24 10:56**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0143 | 42.9 %          | 40-140 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0158 | 47.4 %          | 40-140 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/06/24 10:56**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron   | ND     | 2.00            | mg/L  | 1        | BHK0632 | 11/13/24 | 11/21/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **11/06/24 10:56**

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

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-E05@4'**  
**2411118-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

| Analyte  | Result | Limit  | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic  | 1.86   | 0.200  | mg/kg dry | 1        | BHK1312 | 11/26/24 | 12/05/24 | EPA 6020B |       |
| Barium   | 31.8   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | ND     | 0.200  | "         | "        | "       | "        | "        | "         |       |
| Copper   | 2.48   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Lead     | 3.09   | 0.200  | "         | "        | "       | "        | "        | "         |       |
| Nickel   | 2.39   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Silver   | ND     | 0.0200 | "         | "        | "       | "        | "        | "         |       |
| Zinc     | 10.9   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Selenium | ND     | 0.260  | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/06/24 10:56**

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BHK0790 | 11/15/24 | 11/19/24 | EPA 7196A |       |

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

Date Sampled: **11/06/24 10:56**

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 26.7   | 0.0500          | mg/L dry | 1        | BHK0870 | 11/15/24 | 11/18/24 | EPA 6020B |       |
| Magnesium | 6.39   | 0.0500          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 29.7   | 0.0500          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/06/24 10:56**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.34   | 0.00100         | units | 1        | BHK0975 | 11/19/24 | 11/19/24 | 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 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-E05@4'**  
**2411118-09 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/06/24 10:56**

| Analyte  | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
|          |        | Limit     |  |       |          |         |          |          |             |       |
| % Solids | 82.4   |           |  | %     | 1        | BHK0580 | 11/12/24 | 11/12/24 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/06/24 10:56**

| Analyte                   | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|                           |        | Limit     |  |          |          |         |          |          |           |       |
| Specific Conductance (EC) | 0.456  | 0.0100    |  | mmhos/cm | 1        | BHK0871 | 11/15/24 | 11/19/24 | EPA 120.1 |       |

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

Date Sampled: **11/06/24 10:56**

| Analyte | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |  |          |          |         |          |          |           |       |
| pH      | 8.20   |           |  | pH Units | 1        | BHK0872 | 11/15/24 | 11/19/24 | EPA 9045D |       |

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-W05@4'**  
**2411118-10 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/06/24 10:58**

| Analyte                     | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    |  | mg/kg | 1        | BHK0495 | 11/11/24 | 11/12/24 | EPA 8260B |       |
| Toluene                     | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene                | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total)             | ND     | 0.010     |  | "     | "        | "       | "        | "        | "         |       |
| 1,2,4-Trimethylbenzene      | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| 1,3,5-Trimethylbenzene      | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Naphthalene                 | ND     | 0.0038    |  | "     | "        | "       | "        | "        | "         |       |
| Gasoline Range Hydrocarbons | ND     | 0.50      |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/06/24 10:58**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0388 | 97.0 %    |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0402 | 100 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0390 | 97.4 %    |  | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/06/24 10:58**

| Analyte       | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |  |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        |  | mg/kg | 1        | BHK0497 | 11/11/24 | 11/12/24 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/06/24 10:58**

| Analyte                | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 10.5   | 83.7 %    |  | 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 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-W05@4'**  
**2411118-10 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/06/24 10:58**

| Analyte                  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene             | ND     | 0.00500         | mg/kg | 1        | BHK0465 | 11/11/24 | 11/11/24 | EPA 8270D SIM |       |
| Anthracene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) anthracene     | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) pyrene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (b) fluoranthene   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (k) fluoranthene   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Chrysene                 | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Dibenz (a,h) anthracene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluorene                 | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Indeno (1,2,3-cd) pyrene | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene                   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **11/06/24 10:58**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0134 | 40.1 %          | 40-140 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0162 | 48.6 %          | 40-140 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/06/24 10:58**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron   | ND     | 2.00            | mg/L  | 1        | BHK0632 | 11/13/24 | 11/21/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **11/06/24 10:58**

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

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-W05@4'**  
**2411118-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

| Analyte  | Result | Limit  | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic  | 2.07   | 0.200  | mg/kg dry | 1        | BHK1312 | 11/26/24 | 12/05/24 | EPA 6020B |       |
| Barium   | 36.7   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | ND     | 0.200  | "         | "        | "       | "        | "        | "         |       |
| Copper   | 2.92   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Lead     | 3.37   | 0.200  | "         | "        | "       | "        | "        | "         |       |
| Nickel   | 3.23   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Silver   | ND     | 0.0200 | "         | "        | "       | "        | "        | "         |       |
| Zinc     | 13.6   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Selenium | ND     | 0.260  | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/06/24 10:58**

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BHK0790 | 11/15/24 | 11/19/24 | EPA 7196A |       |

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

Date Sampled: **11/06/24 10:58**

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 21.8   | 0.0500          | mg/L dry | 1        | BHK0870 | 11/15/24 | 11/18/24 | EPA 6020B |       |
| Magnesium | 4.84   | 0.0500          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 12.3   | 0.0500          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/06/24 10:58**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.621  | 0.00100         | units | 1        | BHK0975 | 11/19/24 | 11/19/24 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-W05@4'**  
**2411118-10 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/06/24 10:58**

| Analyte  | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
|          |        | Limit     |  |       |          |         |          |          |             |       |
| % Solids | 84.1   |           |  | %     | 1        | BHK0580 | 11/12/24 | 11/12/24 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/06/24 10:58**

| Analyte                   | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|                           |        | Limit     |  |          |          |         |          |          |           |       |
| Specific Conductance (EC) | 0.258  | 0.0100    |  | mmhos/cm | 1        | BHK0871 | 11/15/24 | 11/19/24 | EPA 120.1 |       |

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

Date Sampled: **11/06/24 10:58**

| Analyte | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |  |          |          |         |          |          |           |       |
| pH      | 8.22   |           |  | pH Units | 1        | BHK0872 | 11/15/24 | 11/19/24 | EPA 9045D |       |

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-B19@5'**  
**2411118-11 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/06/24 12:00**

| Analyte                     | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    |  | mg/kg | 1        | BHK0495 | 11/11/24 | 11/12/24 | EPA 8260B |       |
| Toluene                     | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene                | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total)             | ND     | 0.010     |  | "     | "        | "       | "        | "        | "         |       |
| 1,2,4-Trimethylbenzene      | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| 1,3,5-Trimethylbenzene      | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Naphthalene                 | ND     | 0.0038    |  | "     | "        | "       | "        | "        | "         |       |
| Gasoline Range Hydrocarbons | ND     | 0.50      |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/06/24 12:00**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0380 | 95.0 %    |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0405 | 101 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0388 | 96.9 %    |  | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/06/24 12:00**

| Analyte       | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |  |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        |  | mg/kg | 1        | BHK0497 | 11/11/24 | 11/12/24 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/06/24 12:00**

| Analyte                | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 10.6   | 84.7 %    |  | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-B19@5'**  
**2411118-11 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/06/24 12:00**

| Analyte                  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene             | ND     | 0.00500         | mg/kg | 1        | BHK0465 | 11/11/24 | 11/11/24 | EPA 8270D SIM |       |
| Anthracene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) anthracene     | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) pyrene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (b) fluoranthene   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (k) fluoranthene   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Chrysene                 | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Dibenz (a,h) anthracene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluorene                 | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Indeno (1,2,3-cd) pyrene | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene                   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **11/06/24 12:00**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0142 | 42.6 %          | 40-140 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0151 | 45.2 %          | 40-140 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/06/24 12:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron   | ND     | 2.00            | mg/L  | 1        | BHK0632 | 11/13/24 | 11/21/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **11/06/24 12:00**

| 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 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-B19@5'**  
**2411118-11 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

| Analyte  | Result | Limit  | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic  | 1.85   | 0.200  | mg/kg dry | 1        | BHK1312 | 11/26/24 | 12/05/24 | EPA 6020B |       |
| Barium   | 36.2   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | ND     | 0.200  | "         | "        | "       | "        | "        | "         |       |
| Copper   | 3.21   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Lead     | 3.50   | 0.200  | "         | "        | "       | "        | "        | "         |       |
| Nickel   | 2.70   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Silver   | ND     | 0.0200 | "         | "        | "       | "        | "        | "         |       |
| Zinc     | 13.2   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Selenium | ND     | 0.260  | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/06/24 12:00**

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BHK0790 | 11/15/24 | 11/19/24 | EPA 7196A |       |

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

Date Sampled: **11/06/24 12:00**

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 19.2   | 0.0500          | mg/L dry | 1        | BHK0870 | 11/15/24 | 11/18/24 | EPA 6020B |       |
| Magnesium | 4.08   | 0.0500          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 21.4   | 0.0500          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/06/24 12:00**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.16   | 0.00100         | units | 1        | BHK0975 | 11/19/24 | 11/19/24 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-B19@5'**  
**2411118-11 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/06/24 12:00**

| Analyte  | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
|          |        | Limit     |  |       |          |         |          |          |             |       |
| % Solids | 83.6   |           |  | %     | 1        | BHK0580 | 11/12/24 | 11/12/24 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/06/24 12:00**

| Analyte                   | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|                           |        | Limit     |  |          |          |         |          |          |           |       |
| Specific Conductance (EC) | 0.391  | 0.0100    |  | mmhos/cm | 1        | BHK0871 | 11/15/24 | 11/19/24 | EPA 120.1 |       |

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

Date Sampled: **11/06/24 12:00**

| Analyte | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |  |          |          |         |          |          |           |       |
| pH      | 8.23   |           |  | pH Units | 1        | BHK0872 | 11/15/24 | 11/19/24 | EPA 9045D |       |

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-N06@4'**  
**2411118-12 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/06/24 12:02**

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene                     | ND     | 0.0020          | mg/kg | 1        | BHK0495 | 11/11/24 | 11/12/24 | EPA 8260B |       |
| Toluene                     | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene                | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total)             | ND     | 0.010           | "     | "        | "       | "        | "        | "         |       |
| 1,2,4-Trimethylbenzene      | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| 1,3,5-Trimethylbenzene      | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Naphthalene                 | ND     | 0.0038          | "     | "        | "       | "        | "        | "         |       |
| Gasoline Range Hydrocarbons | ND     | 0.50            | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/06/24 12:02**

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0376 | 94.0 %          | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0395 | 98.8 %          | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0369 | 92.2 %          | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/06/24 12:02**

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | BHK0497 | 11/11/24 | 11/12/24 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/06/24 12:02**

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 8.90   | 71.2 %          | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-N06@4'**  
**2411118-12 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/06/24 12:02**

| Analyte                  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene             | ND     | 0.00500         | mg/kg | 1        | BHK0465 | 11/11/24 | 11/13/24 | EPA 8270D SIM |       |
| Anthracene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) anthracene     | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) pyrene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (b) fluoranthene   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (k) fluoranthene   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Chrysene                 | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Dibenz (a,h) anthracene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluorene                 | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Indeno (1,2,3-cd) pyrene | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene                   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **11/06/24 12:02**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0208 | 62.3 %          | 40-140 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0199 | 59.8 %          | 40-140 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/06/24 12:02**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron   | ND     | 2.00            | mg/L  | 1        | BHK0632 | 11/13/24 | 11/21/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **11/06/24 12:02**

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

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-N06@4'**  
**2411118-12 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

| Analyte  | Result | Limit  | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic  | 1.80   | 0.200  | mg/kg dry | 1        | BHK1312 | 11/26/24 | 12/05/24 | EPA 6020B |       |
| Barium   | 32.1   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | ND     | 0.200  | "         | "        | "       | "        | "        | "         |       |
| Copper   | 2.95   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Lead     | 4.52   | 0.200  | "         | "        | "       | "        | "        | "         |       |
| Nickel   | 2.19   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Silver   | ND     | 0.0200 | "         | "        | "       | "        | "        | "         |       |
| Zinc     | 11.1   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Selenium | ND     | 0.260  | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/06/24 12:02**

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BHK0790 | 11/15/24 | 11/19/24 | EPA 7196A |       |

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

Date Sampled: **11/06/24 12:02**

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 28.6   | 0.0500          | mg/L dry | 1        | BHK0870 | 11/15/24 | 11/18/24 | EPA 6020B |       |
| Magnesium | 8.16   | 0.0500          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 187    | 0.0500          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/06/24 12:02**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 7.94   | 0.00100         | units | 1        | BHK0975 | 11/19/24 | 11/19/24 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-N06@4'**  
**2411118-12 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/06/24 12:02**

| Analyte  | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
|          |        | Limit     |  |       |          |         |          |          |             |       |
| % Solids | 82.5   |           |  | %     | 1        | BHK0580 | 11/12/24 | 11/12/24 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/06/24 12:02**

| Analyte                   | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|                           |        | Limit     |  |          |          |         |          |          |           |       |
| Specific Conductance (EC) | 1.52   | 0.0100    |  | mmhos/cm | 1        | BHK0871 | 11/15/24 | 11/19/24 | EPA 120.1 |       |

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

Date Sampled: **11/06/24 12:02**

| Analyte | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |  |          |          |         |          |          |           |       |
| pH      | 7.91   |           |  | pH Units | 1        | BHK0872 | 11/15/24 | 11/19/24 | EPA 9045D |       |

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-S06@4'**  
**2411118-13 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/06/24 12:04**

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene                     | ND     | 0.0020          | mg/kg | 1        | BHK0495 | 11/11/24 | 11/12/24 | EPA 8260B |       |
| Toluene                     | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene                | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total)             | ND     | 0.010           | "     | "        | "       | "        | "        | "         |       |
| 1,2,4-Trimethylbenzene      | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| 1,3,5-Trimethylbenzene      | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Naphthalene                 | ND     | 0.0038          | "     | "        | "       | "        | "        | "         |       |
| Gasoline Range Hydrocarbons | ND     | 0.50            | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/06/24 12:04**

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0403 | 101 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0408 | 102 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0385 | 96.2 %          | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/06/24 12:04**

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | BHK0497 | 11/11/24 | 11/12/24 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/06/24 12:04**

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 7.10   | 56.8 %          | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

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6855 W. 119th Ave.  
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Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-S06@4'**  
**2411118-13 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/06/24 12:04**

| Analyte                  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene             | ND     | 0.00500         | mg/kg | 1        | BHK0465 | 11/11/24 | 11/12/24 | EPA 8270D SIM |       |
| Anthracene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) anthracene     | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) pyrene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (b) fluoranthene   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (k) fluoranthene   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Chrysene                 | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Dibenz (a,h) anthracene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluorene                 | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Indeno (1,2,3-cd) pyrene | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene                   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **11/06/24 12:04**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0153 | 45.9 %          | 40-140 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0166 | 49.8 %          | 40-140 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/06/24 12:04**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron   | ND     | 2.00            | mg/L  | 1        | BHK0632 | 11/13/24 | 11/21/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **11/06/24 12:04**

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

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-S06@4'**  
**2411118-13 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

| Analyte  | Result | Limit  | Units     | Dilution | Batch   | Prepared | Analyzed | Method    |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|
| Arsenic  | 2.25   | 0.200  | mg/kg dry | 1        | BHK1312 | 11/26/24 | 12/05/24 | EPA 6020B |
| Barium   | 28.1   | 0.400  | "         | "        | "       | "        | "        | "         |
| Cadmium  | ND     | 0.200  | "         | "        | "       | "        | "        | "         |
| Copper   | 3.21   | 0.400  | "         | "        | "       | "        | "        | "         |
| Lead     | 5.10   | 0.200  | "         | "        | "       | "        | "        | "         |
| Nickel   | 2.60   | 0.400  | "         | "        | "       | "        | "        | "         |
| Silver   | 0.0208 | 0.0200 | "         | "        | "       | "        | "        | "         |
| Zinc     | 13.7   | 0.400  | "         | "        | "       | "        | "        | "         |
| Selenium | ND     | 0.260  | "         | "        | "       | "        | "        | "         |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/06/24 12:04

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BHK0790 | 11/15/24 | 11/19/24 | EPA 7196A |       |

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

Date Sampled: 11/06/24 12:04

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 83.2   | 0.0500          | mg/L dry | 1        | BHK0870 | 11/15/24 | 11/18/24 | EPA 6020B |       |
| Magnesium | 23.9   | 0.0500          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 244    | 0.0500          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: 11/06/24 12:04

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 6.07   | 0.00100         | units | 1        | BHK0975 | 11/19/24 | 11/19/24 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-S06@4'**  
**2411118-13 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/06/24 12:04**

| Analyte  | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
|          |        | Limit     |  |       |          |         |          |          |             |       |
| % Solids | 83.5   |           |  | %     | 1        | BHK0580 | 11/12/24 | 11/12/24 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/06/24 12:04**

| Analyte                   | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|                           |        | Limit     |  |          |          |         |          |          |           |       |
| Specific Conductance (EC) | 1.78   | 0.0100    |  | mmhos/cm | 1        | BHK0871 | 11/15/24 | 11/19/24 | EPA 120.1 |       |

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

Date Sampled: **11/06/24 12:04**

| Analyte | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |  |          |          |         |          |          |           |       |
| pH      | 8.01   |           |  | pH Units | 1        | BHK0872 | 11/15/24 | 11/19/24 | EPA 9045D |       |

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

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-E06@4'**  
**2411118-14 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/06/24 12:06**

| Analyte                     | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    |  | mg/kg | 1        | BHK0495 | 11/11/24 | 11/12/24 | EPA 8260B |       |
| Toluene                     | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene                | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total)             | ND     | 0.010     |  | "     | "        | "       | "        | "        | "         |       |
| 1,2,4-Trimethylbenzene      | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| 1,3,5-Trimethylbenzene      | ND     | 0.0050    |  | "     | "        | "       | "        | "        | "         |       |
| Naphthalene                 | ND     | 0.0038    |  | "     | "        | "       | "        | "        | "         |       |
| Gasoline Range Hydrocarbons | ND     | 0.50      |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/06/24 12:06**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0386 | 96.6 %    |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0407 | 102 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0391 | 97.6 %    |  | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/06/24 12:06**

| Analyte       | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |  |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        |  | mg/kg | 1        | BHK0497 | 11/11/24 | 11/12/24 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/06/24 12:06**

| Analyte                | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 10.4   | 83.2 %    |  | 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 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-E06@4'**  
**2411118-14 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/06/24 12:06**

| Analyte                  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene             | ND     | 0.00500         | mg/kg | 1        | BHK0465 | 11/11/24 | 11/12/24 | EPA 8270D SIM |       |
| Anthracene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) anthracene     | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) pyrene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (b) fluoranthene   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (k) fluoranthene   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Chrysene                 | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Dibenz (a,h) anthracene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluorene                 | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Indeno (1,2,3-cd) pyrene | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene                   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **11/06/24 12:06**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0159 | 47.7 %          | 40-140 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0155 | 46.5 %          | 40-140 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/06/24 12:06**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron   | ND     | 2.00            | mg/L  | 1        | BHK0632 | 11/13/24 | 11/21/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **11/06/24 12:06**

| 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 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-E06@4'**  
**2411118-14 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

| Analyte  | Result | Limit  | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic  | 1.72   | 0.200  | mg/kg dry | 1        | BHK1312 | 11/26/24 | 12/05/24 | EPA 6020B |       |
| Barium   | 34.0   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | ND     | 0.200  | "         | "        | "       | "        | "        | "         |       |
| Copper   | 2.58   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Lead     | 2.91   | 0.200  | "         | "        | "       | "        | "        | "         |       |
| Nickel   | 2.13   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Silver   | ND     | 0.0200 | "         | "        | "       | "        | "        | "         |       |
| Zinc     | 11.3   | 0.400  | "         | "        | "       | "        | "        | "         |       |
| Selenium | ND     | 0.260  | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/06/24 12:06**

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BHK0790 | 11/15/24 | 11/19/24 | EPA 7196A |       |

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

Date Sampled: **11/06/24 12:06**

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 18.2   | 0.0500          | mg/L dry | 1        | BHK0870 | 11/15/24 | 11/18/24 | EPA 6020B |       |
| Magnesium | 4.46   | 0.0500          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 45.5   | 0.0500          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/06/24 12:06**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 2.48   | 0.00100         | units | 1        | BHK0975 | 11/19/24 | 11/19/24 | 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 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-E06@4'**  
**2411118-14 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/06/24 12:06**

| Analyte  | Result      | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|-------------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
|          |             | Limit     |  |       |          |         |          |          |             |       |
| % Solids | <b>84.4</b> |           |  | %     | 1        | BHK0580 | 11/12/24 | 11/12/24 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/06/24 12:06**

| Analyte                   | Result       | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|                           |              | Limit     |  |          |          |         |          |          |           |       |
| Specific Conductance (EC) | <b>0.517</b> | 0.0100    |  | mmhos/cm | 1        | BHK0871 | 11/15/24 | 11/19/24 | EPA 120.1 |       |

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

Date Sampled: **11/06/24 12:06**

| Analyte | Result      | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|-------------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|         |             | Limit     |  |          |          |         |          |          |           |       |
| pH      | <b>8.15</b> |           |  | pH Units | 1        | BHK0872 | 11/15/24 | 11/19/24 | EPA 9045D |       |

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-W06@4'**  
**2411118-15 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/06/24 12:08**

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene                     | ND     | 0.0020          | mg/kg | 1        | BHK0495 | 11/11/24 | 11/12/24 | EPA 8260B |       |
| Toluene                     | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene                | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total)             | ND     | 0.010           | "     | "        | "       | "        | "        | "         |       |
| 1,2,4-Trimethylbenzene      | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| 1,3,5-Trimethylbenzene      | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Naphthalene                 | ND     | 0.0038          | "     | "        | "       | "        | "        | "         |       |
| Gasoline Range Hydrocarbons | ND     | 0.50            | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/06/24 12:08**

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0389 | 97.4 %          | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0407 | 102 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0387 | 96.7 %          | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/06/24 12:08**

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | BHK0497 | 11/11/24 | 11/12/24 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/06/24 12:08**

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 8.71   | 69.7 %          | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-W06@4'**  
**2411118-15 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/06/24 12:08**

| Analyte                  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene             | ND     | 0.00500         | mg/kg | 1        | BHK0465 | 11/11/24 | 11/12/24 | EPA 8270D SIM |       |
| Anthracene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) anthracene     | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) pyrene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (b) fluoranthene   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (k) fluoranthene   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Chrysene                 | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Dibenz (a,h) anthracene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluorene                 | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Indeno (1,2,3-cd) pyrene | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene                   | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **11/06/24 12:08**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0156 | 46.8 %          | 40-140 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0143 | 43.0 %          | 40-140 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/06/24 12:08**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron   | ND     | 2.00            | mg/L  | 1        | BHK0632 | 11/13/24 | 11/21/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **11/06/24 12:08**

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

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-W06@4'**  
**2411118-15 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

| Analyte  | Result | Limit  | Units     | Dilution | Batch   | Prepared | Analyzed | Method    |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|
| Arsenic  | 1.71   | 0.200  | mg/kg dry | 1        | BHK1312 | 11/26/24 | 12/05/24 | EPA 6020B |
| Barium   | 31.8   | 0.400  | "         | "        | "       | "        | "        | "         |
| Cadmium  | ND     | 0.200  | "         | "        | "       | "        | "        | "         |
| Copper   | 2.63   | 0.400  | "         | "        | "       | "        | "        | "         |
| Lead     | 3.32   | 0.200  | "         | "        | "       | "        | "        | "         |
| Nickel   | 2.36   | 0.400  | "         | "        | "       | "        | "        | "         |
| Silver   | 0.0203 | 0.0200 | "         | "        | "       | "        | "        | "         |
| Zinc     | 11.4   | 0.400  | "         | "        | "       | "        | "        | "         |
| Selenium | ND     | 0.260  | "         | "        | "       | "        | "        | "         |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/06/24 12:08

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BHK0790 | 11/15/24 | 11/19/24 | EPA 7196A |       |

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

Date Sampled: 11/06/24 12:08

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 26.8   | 0.0500          | mg/L dry | 1        | BHK0870 | 11/15/24 | 11/18/24 | EPA 6020B |       |
| Magnesium | 6.68   | 0.0500          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 73.0   | 0.0500          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: 11/06/24 12:08

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 3.27   | 0.00100         | units | 1        | BHK0975 | 11/19/24 | 11/19/24 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

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

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**FL-W06@4'**  
**2411118-15 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/06/24 12:08**

| Analyte  | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
|          |        | Limit     |  |       |          |         |          |          |             |       |
| % Solids | 82.9   |           |  | %     | 1        | BHK0580 | 11/12/24 | 11/12/24 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/06/24 12:08**

| Analyte                   | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|                           |        | Limit     |  |          |          |         |          |          |           |       |
| Specific Conductance (EC) | 2.01   | 0.0100    |  | mmhos/cm | 1        | BHK0871 | 11/15/24 | 11/19/24 | EPA 120.1 |       |

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

Date Sampled: **11/06/24 12:08**

| Analyte | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |  |          |          |         |          |          |           |       |
| pH      | 8.16   |           |  | pH Units | 1        | BHK0872 | 11/15/24 | 11/19/24 | EPA 9045D |       |

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**GW08**  
**2411118-16 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/06/24 10:32**

| Analyte                | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                        |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene                | ND     | 1.0       |  | ug/l  | 1        | BHK0531 | 11/11/24 | 11/11/24 | 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: **11/06/24 10:32**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 12.7   | 95.2 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 13.5   | 101 %     |  | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 12.9   | 97.1 %    |  | 21-167 |          | "     | "        | "        | "      |       |

**Anions by EPA Method 300.0**

Date Sampled: **11/06/24 10:32**

| Analyte  | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|          |        | Limit     |  |       |          |         |          |          |           |       |
| Chloride | 514    | 0.0600    |  | mg/L  | 50       | BHK0493 | 11/11/24 | 11/11/24 | EPA 300.0 |       |
| Sulfate  | 574    | 0.300     |  | "     | "        | "       | "        | "        | "         |       |

**Total Dissolved Solids by SM2540C**

Date Sampled: **11/06/24 10:32**

| Analyte                | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method  | Notes |
|------------------------|--------|-----------|--|-------|----------|---------|----------|----------|---------|-------|
|                        |        | Limit     |  |       |          |         |          |          |         |       |
| Total Dissolved Solids | 1860   | 10.0      |  | mg/L  | 1        | BHK0312 | 11/07/24 | 11/11/24 | SM2540C |       |

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**GW09**  
**2411118-17 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/06/24 11:00**

| Analyte                | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                        |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene                | ND     | 1.0       |  | ug/l  | 1        | BHK0531 | 11/11/24 | 11/11/24 | 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: **11/06/24 11:00**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 12.4   | 92.9 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 13.4   | 100 %     |  | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 12.5   | 94.1 %    |  | 21-167 |          | "     | "        | "        | "      |       |

**Anions by EPA Method 300.0**

Date Sampled: **11/06/24 11:00**

| Analyte  | Result     | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|------------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|          |            | Limit     |  |       |          |         |          |          |           |       |
| Chloride | <b>522</b> | 0.0600    |  | mg/L  | 50       | BHK0493 | 11/11/24 | 11/11/24 | EPA 300.0 |       |
| Sulfate  | <b>606</b> | 0.300     |  | "     | "        | "       | "        | "        | "         |       |

**Total Dissolved Solids by SM2540C**

Date Sampled: **11/06/24 11:00**

| Analyte                       | Result      | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method  | Notes |
|-------------------------------|-------------|-----------|--|-------|----------|---------|----------|----------|---------|-------|
|                               |             | Limit     |  |       |          |         |          |          |         |       |
| <b>Total Dissolved Solids</b> | <b>2000</b> | 10.0      |  | mg/L  | 1        | BHK0312 | 11/07/24 | 11/11/24 | SM2540C |       |

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Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**GW10**  
**2411118-18 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/06/24 12:10**

| Analyte                | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                        |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene                | ND     | 1.0       |  | ug/l  | 1        | BHK0531 | 11/11/24 | 11/11/24 | 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: **11/06/24 12:10**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 12.5   | 93.5 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 13.4   | 100 %     |  | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 12.8   | 96.1 %    |  | 21-167 |          | "     | "        | "        | "      |       |

**Anions by EPA Method 300.0**

Date Sampled: **11/06/24 12:10**

| Analyte  | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|          |        | Limit     |  |       |          |         |          |          |           |       |
| Chloride | 479    | 0.0600    |  | mg/L  | 50       | BHK0493 | 11/11/24 | 11/11/24 | EPA 300.0 |       |
| Sulfate  | 566    | 0.300     |  | "     | "        | "       | "        | "        | "         |       |

**Total Dissolved Solids by SM2540C**

Date Sampled: **11/06/24 12:10**

| Analyte                | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method  | Notes |
|------------------------|--------|-----------|--|-------|----------|---------|----------|----------|---------|-------|
|                        |        | Limit     |  |       |          |         |          |          |         |       |
| Total Dissolved Solids | 2170   | 10.0      |  | mg/L  | 1        | BHK0312 | 11/07/24 | 11/11/24 | SM2540C |       |

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

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

### 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 BHK0495 - EPA 5030 Soil MS

##### Blank (BHK0495-BLK1)

Prepared & Analyzed: 11/11/24

|   |               |        |          |               |  |             |               |  |  |  |  |
|---|---------------|--------|----------|---------------|--|-------------|---------------|--|--|--|--|
| Benzene                                 | ND            | 0.0020 | mg/kg    |               |  |             |               |  |  |  |  |
| Toluene                                 | ND            | 0.0050 | "        |               |  |             |               |  |  |  |  |
| Ethylbenzene                            | ND            | 0.0050 | "        |               |  |             |               |  |  |  |  |
| Xylenes (total)                         | ND            | 0.010  | "        |               |  |             |               |  |  |  |  |
| 1,2,4-Trimethylbenzene                  | ND            | 0.0050 | "        |               |  |             |               |  |  |  |  |
| 1,3,5-Trimethylbenzene                  | ND            | 0.0050 | "        |               |  |             |               |  |  |  |  |
| Naphthalene                             | ND            | 0.0038 | "        |               |  |             |               |  |  |  |  |
| Gasoline Range Hydrocarbons             | ND            | 0.50   | "        |               |  |             |               |  |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0386</i> |        | <i>"</i> | <i>0.0400</i> |  | <i>96.6</i> | <i>50-150</i> |  |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | <i>0.0403</i> |        | <i>"</i> | <i>0.0400</i> |  | <i>101</i>  | <i>50-150</i> |  |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>0.0392</i> |        | <i>"</i> | <i>0.0400</i> |  | <i>97.9</i> | <i>50-150</i> |  |  |  |  |

##### LCS (BHK0495-BS1)

Prepared & Analyzed: 11/11/24

|   |               |        |          |               |  |             |               |  |  |  |  |
|---|---------------|--------|----------|---------------|--|-------------|---------------|--|--|--|--|
| Benzene                                 | 0.0998        | 0.0020 | mg/kg    | 0.100         |  | 99.8        | 70-130        |  |  |  |  |
| Toluene                                 | 0.108         | 0.0050 | "        | 0.100         |  | 108         | 70-130        |  |  |  |  |
| Ethylbenzene                            | 0.103         | 0.0050 | "        | 0.100         |  | 103         | 70-130        |  |  |  |  |
| m,p-Xylene                              | 0.207         | 0.010  | "        | 0.200         |  | 104         | 70-130        |  |  |  |  |
| o-Xylene                                | 0.0992        | 0.0050 | "        | 0.100         |  | 99.2        | 70-130        |  |  |  |  |
| 1,2,4-Trimethylbenzene                  | 0.100         | 0.0050 | "        | 0.100         |  | 100         | 70-130        |  |  |  |  |
| 1,3,5-Trimethylbenzene                  | 0.101         | 0.0050 | "        | 0.100         |  | 101         | 70-130        |  |  |  |  |
| Naphthalene                             | 0.0958        | 0.0038 | "        | 0.100         |  | 95.8        | 70-130        |  |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0413</i> |        | <i>"</i> | <i>0.0400</i> |  | <i>103</i>  | <i>50-150</i> |  |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | <i>0.0406</i> |        | <i>"</i> | <i>0.0400</i> |  | <i>101</i>  | <i>50-150</i> |  |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>0.0391</i> |        | <i>"</i> | <i>0.0400</i> |  | <i>97.7</i> | <i>50-150</i> |  |  |  |  |

##### Matrix Spike (BHK0495-MS1)

Source: 241118-01

Prepared & Analyzed: 11/11/24

|   |               |        |          |               |    |             |               |  |  |  |  |
|---|---------------|--------|----------|---------------|----|-------------|---------------|--|--|--|--|
| Benzene                                 | 0.0939        | 0.0020 | mg/kg    | 0.100         | ND | 93.9        | 70-130        |  |  |  |  |
| Toluene                                 | 0.102         | 0.0050 | "        | 0.100         | ND | 102         | 70-130        |  |  |  |  |
| Ethylbenzene                            | 0.102         | 0.0050 | "        | 0.100         | ND | 102         | 70-130        |  |  |  |  |
| m,p-Xylene                              | 0.203         | 0.010  | "        | 0.200         | ND | 102         | 70-130        |  |  |  |  |
| o-Xylene                                | 0.0977        | 0.0050 | "        | 0.100         | ND | 97.7        | 70-130        |  |  |  |  |
| 1,2,4-Trimethylbenzene                  | 0.0981        | 0.0050 | "        | 0.100         | ND | 98.1        | 70-130        |  |  |  |  |
| 1,3,5-Trimethylbenzene                  | 0.0987        | 0.0050 | "        | 0.100         | ND | 98.7        | 70-130        |  |  |  |  |
| Naphthalene                             | 0.0921        | 0.0038 | "        | 0.100         | ND | 92.1        | 70-130        |  |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0399</i> |        | <i>"</i> | <i>0.0400</i> |    | <i>99.8</i> | <i>50-150</i> |  |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | <i>0.0402</i> |        | <i>"</i> | <i>0.0400</i> |    | <i>100</i>  | <i>50-150</i> |  |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>0.0398</i> |        | <i>"</i> | <i>0.0400</i> |    | <i>99.6</i> | <i>50-150</i> |  |  |  |  |

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

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

### 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 BHK0495 - EPA 5030 Soil MS

##### Matrix Spike Dup (BHK0495-MSD1)

Source: 2411118-01

Prepared & Analyzed: 11/11/24

|                                  |        |        |       |        |    |      |        |      |    |  |
|----------------------------------|--------|--------|-------|--------|----|------|--------|------|----|--|
| Benzene                          | 0.0921 | 0.0020 | mg/kg | 0.100  | ND | 92.1 | 70-130 | 2.00 | 30 |  |
| Toluene                          | 0.0999 | 0.0050 | "     | 0.100  | ND | 99.9 | 70-130 | 2.02 | 30 |  |
| Ethylbenzene                     | 0.0995 | 0.0050 | "     | 0.100  | ND | 99.5 | 70-130 | 2.30 | 30 |  |
| m,p-Xylene                       | 0.196  | 0.010  | "     | 0.200  | ND | 98.1 | 70-130 | 3.60 | 30 |  |
| o-Xylene                         | 0.0950 | 0.0050 | "     | 0.100  | ND | 95.0 | 70-130 | 2.77 | 30 |  |
| 1,2,4-Trimethylbenzene           | 0.0909 | 0.0050 | "     | 0.100  | ND | 90.9 | 70-130 | 7.65 | 30 |  |
| 1,3,5-Trimethylbenzene           | 0.0916 | 0.0050 | "     | 0.100  | ND | 91.6 | 70-130 | 7.51 | 30 |  |
| Naphthalene                      | 0.0847 | 0.0038 | "     | 0.100  | ND | 84.7 | 70-130 | 8.42 | 30 |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0402 |        | "     | 0.0400 |    | 100  | 50-150 |      |    |  |
| Surrogate: Toluene-d8            | 0.0392 |        | "     | 0.0400 |    | 97.9 | 50-150 |      |    |  |
| Surrogate: 4-Bromofluorobenzene  | 0.0392 |        | "     | 0.0400 |    | 97.9 | 50-150 |      |    |  |

#### Batch BHK0531 - EPA 5030 Water MS

##### Blank (BHK0531-BLK1)

Prepared & Analyzed: 11/11/24

|                                  |      |     |      |      |  |      |        |  |  |  |
|----------------------------------|------|-----|------|------|--|------|--------|--|--|--|
| 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 | "    |      |  |      |        |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 12.4 |     | "    | 13.3 |  | 93.1 | 23-173 |  |  |  |
| Surrogate: Toluene-d8            | 13.3 |     | "    | 13.3 |  | 99.5 | 20-170 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 12.7 |     | "    | 13.3 |  | 95.3 | 21-167 |  |  |  |

##### LCS (BHK0531-BS1)

Prepared & Analyzed: 11/11/24

|                                  |      |     |      |      |  |      |        |  |  |  |
|----------------------------------|------|-----|------|------|--|------|--------|--|--|--|
| Benzene                          | 32.0 | 1.0 | ug/l | 33.3 |  | 95.9 | 51-132 |  |  |  |
| Toluene                          | 32.4 | 1.0 | "    | 33.3 |  | 97.2 | 51-138 |  |  |  |
| Ethylbenzene                     | 32.4 | 1.0 | "    | 33.3 |  | 97.2 | 58-146 |  |  |  |
| m,p-Xylene                       | 65.1 | 2.0 | "    | 66.7 |  | 97.6 | 57-144 |  |  |  |
| o-Xylene                         | 32.6 | 1.0 | "    | 33.3 |  | 98.0 | 53-146 |  |  |  |
| Naphthalene                      | 27.7 | 1.0 | "    | 33.3 |  | 83.0 | 70-130 |  |  |  |
| 1,2,4-Trimethylbenzene           | 31.4 | 1.0 | "    | 33.3 |  | 94.1 | 70-130 |  |  |  |
| 1,3,5-Trimethylbenzene           | 31.9 | 1.0 | "    | 33.3 |  | 95.6 | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 12.5 |     | "    | 13.3 |  | 93.5 | 23-173 |  |  |  |
| Surrogate: Toluene-d8            | 13.2 |     | "    | 13.3 |  | 99.2 | 20-170 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 12.9 |     | "    | 13.3 |  | 96.7 | 21-167 |  |  |  |

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

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

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

**Batch BHK0531 - EPA 5030 Water MS**

**LCS Dup (BHK0531-BSD1)**

Prepared & Analyzed: 11/11/24

|   |             |     |          |             |             |               |      |    |  |
|---|-------------|-----|----------|-------------|-------------|---------------|------|----|--|
| Benzene                                 | 32.9        | 1.0 | ug/l     | 33.3        | 98.8        | 51-132        | 3.02 | 20 |  |
| Toluene                                 | 33.4        | 1.0 | "        | 33.3        | 100         | 51-138        | 3.13 | 20 |  |
| Ethylbenzene                            | 33.3        | 1.0 | "        | 33.3        | 99.8        | 58-146        | 2.68 | 20 |  |
| m,p-Xylene                              | 67.6        | 2.0 | "        | 66.7        | 101         | 57-144        | 3.80 | 20 |  |
| o-Xylene                                | 34.4        | 1.0 | "        | 33.3        | 103         | 53-146        | 5.22 | 20 |  |
| Naphthalene                             | 29.2        | 1.0 | "        | 33.3        | 87.7        | 70-130        | 5.45 | 20 |  |
| 1,2,4-Trimethylbenzene                  | 33.6        | 1.0 | "        | 33.3        | 101         | 70-130        | 6.74 | 20 |  |
| 1,3,5-Trimethylbenzene                  | 34.0        | 1.0 | "        | 33.3        | 102         | 70-130        | 6.32 | 20 |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>12.2</i> |     | <i>"</i> | <i>13.3</i> | <i>91.6</i> | <i>23-173</i> |      |    |  |
| <i>Surrogate: Toluene-d8</i>            | <i>13.2</i> |     | <i>"</i> | <i>13.3</i> | <i>99.2</i> | <i>20-170</i> |      |    |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>13.4</i> |     | <i>"</i> | <i>13.3</i> | <i>100</i>  | <i>21-167</i> |      |    |  |

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

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BHK0497 - EPA 3550A**

**Blank (BHK0497-BLK1)**

Prepared & Analyzed: 11/11/24

|                                |      |    |       |      |  |     |        |  |  |  |
|--------------------------------|------|----|-------|------|--|-----|--------|--|--|--|
| C10-C28 (DRO)                  | ND   | 50 | mg/kg |      |  |     |        |  |  |  |
| C28-C36 (ORO)                  | ND   | 50 | "     |      |  |     |        |  |  |  |
| Surrogate: <i>o</i> -Terphenyl | 15.2 |    | "     | 12.5 |  | 121 | 30-150 |  |  |  |

**LCS (BHK0497-BS1)**

Prepared & Analyzed: 11/11/24

|                                |      |    |       |      |  |     |        |  |  |  |
|--------------------------------|------|----|-------|------|--|-----|--------|--|--|--|
| C10-C28 (DRO)                  | 572  | 50 | mg/kg | 500  |  | 114 | 70-130 |  |  |  |
| Surrogate: <i>o</i> -Terphenyl | 14.0 |    | "     | 12.5 |  | 112 | 30-150 |  |  |  |

**Matrix Spike (BHK0497-MS1)**

Source: 2411118-01

Prepared & Analyzed: 11/11/24

|                                |      |    |       |      |      |     |        |  |  |  |
|--------------------------------|------|----|-------|------|------|-----|--------|--|--|--|
| C10-C28 (DRO)                  | 551  | 50 | mg/kg | 500  | 43.4 | 101 | 70-130 |  |  |  |
| Surrogate: <i>o</i> -Terphenyl | 13.3 |    | "     | 12.5 |      | 106 | 30-150 |  |  |  |

**Matrix Spike Dup (BHK0497-MSD1)**

Source: 2411118-01

Prepared & Analyzed: 11/11/24

|                                |      |    |       |      |      |     |        |       |    |  |
|--------------------------------|------|----|-------|------|------|-----|--------|-------|----|--|
| C10-C28 (DRO)                  | 555  | 50 | mg/kg | 500  | 43.4 | 102 | 70-130 | 0.768 | 20 |  |
| Surrogate: <i>o</i> -Terphenyl | 12.9 |    | "     | 12.5 |      | 103 | 30-150 |       |    |  |

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

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**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 BHK0465 - EPA 5030 Soil MS**

**Blank (BHK0465-BLK1)**

Prepared & Analyzed: 11/11/24

|                                    |        |         |       |        |  |      |        |  |  |  |
|------------------------------------|--------|---------|-------|--------|--|------|--------|--|--|--|
| Acenaphthene                       | ND     | 0.00500 | mg/kg |        |  |      |        |  |  |  |
| Anthracene                         | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Benzo (a) anthracene               | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Benzo (a) pyrene                   | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Benzo (b) fluoranthene             | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Benzo (k) fluoranthene             | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Chrysene                           | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Dibenz (a,h) anthracene            | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Fluoranthene                       | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Fluorene                           | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Indeno (1,2,3-cd) pyrene           | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Pyrene                             | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| 1-Methylnaphthalene                | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| 2-Methylnaphthalene                | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0226 |         | "     | 0.0333 |  | 67.8 | 40-140 |  |  |  |
| Surrogate: Fluoranthene-d10        | 0.0209 |         | "     | 0.0333 |  | 62.7 | 40-140 |  |  |  |

**LCS (BHK0465-BS1)**

Prepared & Analyzed: 11/11/24

|                                    |        |         |       |        |  |      |        |  |  |  |
|------------------------------------|--------|---------|-------|--------|--|------|--------|--|--|--|
| Acenaphthene                       | 0.0219 | 0.00500 | mg/kg | 0.0333 |  | 65.7 | 40-140 |  |  |  |
| Anthracene                         | 0.0206 | 0.00500 | "     | 0.0333 |  | 61.8 | 40-140 |  |  |  |
| Benzo (a) anthracene               | 0.0225 | 0.00500 | "     | 0.0333 |  | 67.6 | 40-140 |  |  |  |
| Benzo (a) pyrene                   | 0.0205 | 0.00500 | "     | 0.0333 |  | 61.5 | 40-140 |  |  |  |
| Benzo (b) fluoranthene             | 0.0208 | 0.00500 | "     | 0.0333 |  | 62.5 | 40-140 |  |  |  |
| Benzo (k) fluoranthene             | 0.0215 | 0.00500 | "     | 0.0333 |  | 64.6 | 40-140 |  |  |  |
| Chrysene                           | 0.0220 | 0.00500 | "     | 0.0333 |  | 65.9 | 40-140 |  |  |  |
| Dibenz (a,h) anthracene            | 0.0187 | 0.00500 | "     | 0.0333 |  | 56.2 | 40-140 |  |  |  |
| Fluoranthene                       | 0.0210 | 0.00500 | "     | 0.0333 |  | 63.0 | 40-140 |  |  |  |
| Fluorene                           | 0.0222 | 0.00500 | "     | 0.0333 |  | 66.6 | 40-140 |  |  |  |
| Indeno (1,2,3-cd) pyrene           | 0.0191 | 0.00500 | "     | 0.0333 |  | 57.3 | 40-140 |  |  |  |
| Pyrene                             | 0.0233 | 0.00500 | "     | 0.0333 |  | 69.9 | 40-140 |  |  |  |
| 1-Methylnaphthalene                | 0.0211 | 0.00500 | "     | 0.0333 |  | 63.3 | 40-140 |  |  |  |
| 2-Methylnaphthalene                | 0.0230 | 0.00500 | "     | 0.0333 |  | 69.1 | 40-140 |  |  |  |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0219 |         | "     | 0.0333 |  | 65.7 | 40-140 |  |  |  |
| Surrogate: Fluoranthene-d10        | 0.0213 |         | "     | 0.0333 |  | 63.8 | 40-140 |  |  |  |

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

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**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 BHK0465 - EPA 5030 Soil MS**

**Matrix Spike (BHK0465-MS1)**

Source: 2411118-01

Prepared: 11/11/24 Analyzed: 11/13/24

|                                    |        |         |       |        |    |      |        |  |  |  |
|------------------------------------|--------|---------|-------|--------|----|------|--------|--|--|--|
| Acenaphthene                       | 0.0218 | 0.00500 | mg/kg | 0.0333 | ND | 65.3 | 40-140 |  |  |  |
| Anthracene                         | 0.0213 | 0.00500 | "     | 0.0333 | ND | 63.9 | 40-140 |  |  |  |
| Benzo (a) anthracene               | 0.0225 | 0.00500 | "     | 0.0333 | ND | 67.4 | 40-140 |  |  |  |
| Benzo (a) pyrene                   | 0.0209 | 0.00500 | "     | 0.0333 | ND | 62.7 | 40-140 |  |  |  |
| Benzo (b) fluoranthene             | 0.0214 | 0.00500 | "     | 0.0333 | ND | 64.2 | 40-140 |  |  |  |
| Benzo (k) fluoranthene             | 0.0202 | 0.00500 | "     | 0.0333 | ND | 60.7 | 40-140 |  |  |  |
| Chrysene                           | 0.0219 | 0.00500 | "     | 0.0333 | ND | 65.6 | 40-140 |  |  |  |
| Dibenz (a,h) anthracene            | 0.0206 | 0.00500 | "     | 0.0333 | ND | 61.7 | 40-140 |  |  |  |
| Fluoranthene                       | 0.0231 | 0.00500 | "     | 0.0333 | ND | 69.2 | 40-140 |  |  |  |
| Fluorene                           | 0.0214 | 0.00500 | "     | 0.0333 | ND | 64.2 | 40-140 |  |  |  |
| Indeno (1,2,3-cd) pyrene           | 0.0169 | 0.00500 | "     | 0.0333 | ND | 50.8 | 40-140 |  |  |  |
| Pyrene                             | 0.0218 | 0.00500 | "     | 0.0333 | ND | 65.4 | 40-140 |  |  |  |
| 1-Methylnaphthalene                | 0.0210 | 0.00500 | "     | 0.0333 | ND | 63.1 | 40-140 |  |  |  |
| 2-Methylnaphthalene                | 0.0213 | 0.00500 | "     | 0.0333 | ND | 63.8 | 40-140 |  |  |  |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0216 |         | "     | 0.0333 |    | 64.7 | 40-140 |  |  |  |
| Surrogate: Fluoranthene-d10        | 0.0222 |         | "     | 0.0333 |    | 66.6 | 40-140 |  |  |  |

**Matrix Spike Dup (BHK0465-MSD1)**

Source: 2411118-01

Prepared: 11/11/24 Analyzed: 11/13/24

|                                    |        |         |       |        |    |      |        |      |    |
|------------------------------------|--------|---------|-------|--------|----|------|--------|------|----|
| Acenaphthene                       | 0.0203 | 0.00500 | mg/kg | 0.0333 | ND | 60.8 | 40-140 | 7.17 | 30 |
| Anthracene                         | 0.0201 | 0.00500 | "     | 0.0333 | ND | 60.4 | 40-140 | 5.66 | 30 |
| Benzo (a) anthracene               | 0.0206 | 0.00500 | "     | 0.0333 | ND | 61.8 | 40-140 | 8.70 | 30 |
| Benzo (a) pyrene                   | 0.0194 | 0.00500 | "     | 0.0333 | ND | 58.1 | 40-140 | 7.54 | 30 |
| Benzo (b) fluoranthene             | 0.0196 | 0.00500 | "     | 0.0333 | ND | 58.9 | 40-140 | 8.58 | 30 |
| Benzo (k) fluoranthene             | 0.0188 | 0.00500 | "     | 0.0333 | ND | 56.4 | 40-140 | 7.28 | 30 |
| Chrysene                           | 0.0200 | 0.00500 | "     | 0.0333 | ND | 59.9 | 40-140 | 9.06 | 30 |
| Dibenz (a,h) anthracene            | 0.0194 | 0.00500 | "     | 0.0333 | ND | 58.3 | 40-140 | 5.68 | 30 |
| Fluoranthene                       | 0.0199 | 0.00500 | "     | 0.0333 | ND | 59.7 | 40-140 | 14.7 | 30 |
| Fluorene                           | 0.0198 | 0.00500 | "     | 0.0333 | ND | 59.4 | 40-140 | 7.64 | 30 |
| Indeno (1,2,3-cd) pyrene           | 0.0163 | 0.00500 | "     | 0.0333 | ND | 49.0 | 40-140 | 3.59 | 30 |
| Pyrene                             | 0.0200 | 0.00500 | "     | 0.0333 | ND | 60.1 | 40-140 | 8.46 | 30 |
| 1-Methylnaphthalene                | 0.0206 | 0.00500 | "     | 0.0333 | ND | 61.6 | 40-140 | 2.38 | 30 |
| 2-Methylnaphthalene                | 0.0207 | 0.00500 | "     | 0.0333 | ND | 62.0 | 40-140 | 2.86 | 30 |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0207 |         | "     | 0.0333 |    | 62.2 | 40-140 |      |    |
| Surrogate: Fluoranthene-d10        | 0.0205 |         | "     | 0.0333 |    | 61.4 | 40-140 |      |    |

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

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

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

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

**Batch BHK0632 - EPA 3050B**

**Blank (BHK0632-BLK1)**

Prepared: 11/13/24 Analyzed: 11/20/24

Boron ND 2.00 mg/L

**LCS (BHK0632-BS1)**

Prepared: 11/13/24 Analyzed: 11/20/24

Boron 5.14 2.00 mg/L 5.00 103 80-120

**Duplicate (BHK0632-DUP1)**

**Source: 2411118-01**

Prepared: 11/13/24 Analyzed: 11/20/24

Boron 0.284 2.00 mg/L 0.321 12.3 20

**Matrix Spike (BHK0632-MS1)**

**Source: 2411118-01**

Prepared: 11/13/24 Analyzed: 11/20/24

Boron 5.18 2.00 mg/L 5.00 0.321 97.2 75-125

**Matrix Spike Dup (BHK0632-MSD1)**

**Source: 2411118-01**

Prepared: 11/13/24 Analyzed: 11/20/24

Boron 5.30 2.00 mg/L 5.00 0.321 99.5 75-125 2.20 25

Summit Scientific

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

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**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 BHK1312 - EPA 3050B**

**Blank (BHK1312-BLK1)**

Prepared: 11/26/24 Analyzed: 12/06/24

|          |    |        |           |  |  |  |  |  |  |
|----------|----|--------|-----------|--|--|--|--|--|--|
| 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 (BHK1312-BS1)**

Prepared: 11/26/24 Analyzed: 12/06/24

|          |      |        |           |      |      |        |
|----------|------|--------|-----------|------|------|--------|
| Arsenic  | 39.8 | 0.200  | mg/kg wet | 39.7 | 100  | 80-120 |
| Barium   | 37.8 | 0.400  | "         | 39.7 | 95.3 | 80-120 |
| Cadmium  | 1.85 | 0.200  | "         | 1.98 | 93.3 | 80-120 |
| Copper   | 40.5 | 0.400  | "         | 39.7 | 102  | 80-120 |
| Lead     | 19.7 | 0.200  | "         | 19.8 | 99.1 | 80-120 |
| Nickel   | 40.2 | 0.400  | "         | 39.7 | 101  | 80-120 |
| Silver   | 1.69 | 0.0200 | "         | 1.98 | 85.3 | 80-120 |
| Zinc     | 39.4 | 0.400  | "         | 39.7 | 99.3 | 80-120 |
| Selenium | 4.24 | 0.260  | "         | 3.97 | 107  | 80-120 |

**Duplicate (BHK1312-DUP1)**

Source: 2411118-01

Prepared: 11/26/24 Analyzed: 12/06/24

|          |        |        |           |        |      |    |
|----------|--------|--------|-----------|--------|------|----|
| Arsenic  | 2.49   | 0.200  | mg/kg dry | 2.32   | 7.11 | 20 |
| Barium   | 55.2   | 0.400  | "         | 48.5   | 12.9 | 20 |
| Cadmium  | 0.0873 | 0.200  | "         | 0.104  | 17.7 | 20 |
| Copper   | 3.49   | 0.400  | "         | 3.06   | 13.3 | 20 |
| Lead     | 3.78   | 0.200  | "         | 3.62   | 4.50 | 20 |
| Nickel   | 3.74   | 0.400  | "         | 3.33   | 11.6 | 20 |
| Silver   | 0.0361 | 0.0200 | "         | 0.0215 | 50.5 | 20 |
| Zinc     | 14.7   | 0.400  | "         | 13.4   | 9.19 | 20 |
| Selenium | ND     | 0.260  | "         | ND     |      | 20 |

QR-01

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

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**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 BHK1312 - EPA 3050B**

**Matrix Spike (BHK1312-MS1)**

Source: 2411118-01

Prepared: 11/26/24 Analyzed: 12/06/24

|          |      |        |           |      |        |      |        |  |  |  |       |
|----------|------|--------|-----------|------|--------|------|--------|--|--|--|-------|
| Arsenic  | 50.1 | 0.200  | mg/kg dry | 47.5 | 2.32   | 101  | 75-125 |  |  |  |       |
| Barium   | 108  | 0.400  | "         | 47.5 | 48.5   | 126  | 75-125 |  |  |  | QM-05 |
| Cadmium  | 2.43 | 0.200  | "         | 2.37 | 0.104  | 98.1 | 75-125 |  |  |  |       |
| Copper   | 51.7 | 0.400  | "         | 47.5 | 3.06   | 103  | 75-125 |  |  |  |       |
| Lead     | 25.8 | 0.200  | "         | 23.7 | 3.62   | 93.3 | 75-125 |  |  |  |       |
| Nickel   | 52.2 | 0.400  | "         | 47.5 | 3.33   | 103  | 75-125 |  |  |  |       |
| Silver   | 3.99 | 0.0200 | "         | 2.37 | 0.0215 | 167  | 75-125 |  |  |  | QM-05 |
| Zinc     | 63.4 | 0.400  | "         | 47.5 | 13.4   | 105  | 75-125 |  |  |  |       |
| Selenium | 2.40 | 0.260  | "         | 4.75 | ND     | 50.6 | 75-125 |  |  |  | QM-05 |

**Matrix Spike Dup (BHK1312-MSD1)**

Source: 2411118-01

Prepared: 11/26/24 Analyzed: 12/06/24

|          |      |        |           |      |        |      |        |      |    |  |       |
|----------|------|--------|-----------|------|--------|------|--------|------|----|--|-------|
| Arsenic  | 47.1 | 0.200  | mg/kg dry | 45.6 | 2.32   | 98.1 | 75-125 | 6.21 | 25 |  |       |
| Barium   | 99.0 | 0.400  | "         | 45.6 | 48.5   | 111  | 75-125 | 8.84 | 25 |  |       |
| Cadmium  | 2.30 | 0.200  | "         | 2.28 | 0.104  | 96.1 | 75-125 | 5.74 | 25 |  |       |
| Copper   | 48.9 | 0.400  | "         | 45.6 | 3.06   | 100  | 75-125 | 5.75 | 25 |  |       |
| Lead     | 25.3 | 0.200  | "         | 22.8 | 3.62   | 95.0 | 75-125 | 1.87 | 25 |  |       |
| Nickel   | 48.9 | 0.400  | "         | 45.6 | 3.33   | 99.9 | 75-125 | 6.52 | 25 |  |       |
| Silver   | 3.84 | 0.0200 | "         | 2.28 | 0.0215 | 167  | 75-125 | 3.91 | 25 |  | QM-05 |
| Zinc     | 59.7 | 0.400  | "         | 45.6 | 13.4   | 101  | 75-125 | 6.06 | 25 |  |       |
| Selenium | 1.86 | 0.260  | "         | 4.56 | ND     | 40.8 | 75-125 | 25.4 | 25 |  | QM-05 |

**Post Spike (BHK1312-PS1)**

Source: 2411118-01

Prepared: 11/26/24 Analyzed: 12/06/24

|         |      |  |      |     |      |      |        |  |  |  |       |
|---------|------|--|------|-----|------|------|--------|--|--|--|-------|
| Arsenic | 100  |  | ug/l | 100 | 4.93 | 95.3 | 75-125 |  |  |  |       |
| Barium  | 95.3 |  | "    | 100 | 103  | NR   | 75-125 |  |  |  | QM-01 |

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

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BHK0790 - 3060A Mod**

**Blank (BHK0790-BLK1)**

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

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BHK0790-BS1)**

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

Chromium, Hexavalent 25.4 0.30 mg/kg wet 25.0 101 80-120

**Duplicate (BHK0790-DUP1)**

**Source: 2411118-01**

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

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BHK0790-MS1)**

**Source: 2411118-01**

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

Chromium, Hexavalent 30.6 0.30 mg/kg dry 29.4 ND 104 75-125

**Matrix Spike Dup (BHK0790-MSD1)**

**Source: 2411118-01**

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

Chromium, Hexavalent 31.0 0.30 mg/kg dry 29.4 ND 105 75-125 1.34 20

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

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**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 BHK0870 - General Preparation**

**Blank (BHK0870-BLK1)**

Prepared: 11/15/24 Analyzed: 11/18/24

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

**LCS (BHK0870-BS1)**

Prepared: 11/15/24 Analyzed: 11/18/24

|           |      |        |          |      |      |        |  |  |  |  |
|-----------|------|--------|----------|------|------|--------|--|--|--|--|
| Calcium   | 5.06 | 0.0500 | mg/L wet | 5.00 | 101  | 70-130 |  |  |  |  |
| Magnesium | 4.90 | 0.0500 | "        | 5.00 | 98.0 | 70-130 |  |  |  |  |
| Sodium    | 5.09 | 0.0500 | "        | 5.00 | 102  | 70-130 |  |  |  |  |

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**Anions by EPA Method 300.0 - Quality Control**  
**Summit Scientific**

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

**Batch BHK0493 - General Preparation**

**Blank (BHK0493-BLK1)**

Prepared & Analyzed: 11/11/24

|          |    |        |      |  |  |  |  |  |  |
|----------|----|--------|------|--|--|--|--|--|--|
| Chloride | ND | 0.0600 | mg/L |  |  |  |  |  |  |
| Sulfate  | ND | 0.300  | "    |  |  |  |  |  |  |

**LCS (BHK0493-BS1)**

Prepared & Analyzed: 11/11/24

|          |      |        |      |      |     |        |  |  |
|----------|------|--------|------|------|-----|--------|--|--|
| Chloride | 3.10 | 0.0600 | mg/L | 3.00 | 103 | 90-110 |  |  |
| Sulfate  | 15.3 | 0.300  | "    | 15.0 | 102 | 90-110 |  |  |

**Duplicate (BHK0493-DUP1)**

Source: 2411118-16

Prepared & Analyzed: 11/11/24

|          |     |        |      |  |     |  |      |    |
|----------|-----|--------|------|--|-----|--|------|----|
| Chloride | 499 | 0.0600 | mg/L |  | 514 |  | 3.04 | 20 |
| Sulfate  | 558 | 0.300  | "    |  | 574 |  | 2.92 | 20 |

**Matrix Spike (BHK0493-MS1)**

Source: 2411118-16

Prepared & Analyzed: 11/11/24

|          |      |        |      |     |     |      |        |  |
|----------|------|--------|------|-----|-----|------|--------|--|
| Chloride | 662  | 0.0600 | mg/L | 150 | 514 | 99.0 | 80-120 |  |
| Sulfate  | 1300 | 0.300  | "    | 750 | 574 | 97.3 | 80-120 |  |

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 Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
 Project Manager: Sam Vogt

**Reported:**  
 12/09/24 07:55

**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 BHK0580 - General Preparation**

**Duplicate (BHK0580-DUP1)**

**Source: 2411116-01**

**Prepared & Analyzed: 11/12/24**

|          |      |  |   |  |      |  |  |      |  |    |  |
|----------|------|--|---|--|------|--|--|------|--|----|--|
| % Solids | 89.0 |  | % |  | 91.2 |  |  | 2.36 |  | 20 |  |
|----------|------|--|---|--|------|--|--|------|--|----|--|

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Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**Total Dissolved Solids by SM2540C - Quality Control**  
**Summit Scientific**

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

**Batch BHK0312 - General Preparation**

**Blank (BHK0312-BLK1)**

Prepared: 11/07/24 Analyzed: 11/11/24

Total Dissolved Solids                      ND                      10.0                      mg/L

**Duplicate (BHK0312-DUP1)**

**Source: 2411103-01**

Prepared: 11/07/24 Analyzed: 11/11/24

Total Dissolved Solids                      3700                      10.0                      mg/L                      3710                      0.270                      20

Summit Scientific

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

**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 BHK0871 - General Preparation**

**Blank (BHK0871-BLK1)**

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

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHK0871-BS1)**

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

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

**Duplicate (BHK0871-DUP1)**

**Source: 2411075-01**

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

Specific Conductance (EC) 0.565 0.0100 mmhos/cm 0.575 1.65 20

Summit Scientific

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

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

**Summit Scientific**

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

**Batch BHK0872 - General Preparation**

**LCS (BHK0872-BS1)**

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

|    |      |          |      |     |        |
|----|------|----------|------|-----|--------|
| pH | 9.27 | pH Units | 9.18 | 101 | 95-105 |
|----|------|----------|------|-----|--------|

**Duplicate (BHK0872-DUP1)**

Source: 2411075-01

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

|    |      |          |      |       |    |
|----|------|----------|------|-------|----|
| pH | 8.27 | pH Units | 8.29 | 0.242 | 20 |
|----|------|----------|------|-------|----|

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Broomfield CO, 80020

Project: Civitas - Aristocrat Angus 7-2-10 & 42-10

Project Number: 23176  
Project Manager: Sam Vogt

**Reported:**  
12/09/24 07:55

### Notes and Definitions

- QR-01 Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference