

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 28, 2024

Sam Vogt

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Civitas - HSR Ackard 5-2

Work Order #2410452

Enclosed are the results of analyses for samples received by Summit Scientific on 10/24/24 18:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

Jacob Wood For Paul Shrewsbury

President



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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| BG01@6" | 2410452-01 | Soil | 10/24/24 09:00 | 10/24/24 18:45 |
| BG01@4' | 2410452-02 | Soil | 10/24/24 09:05 | 10/24/24 18:45 |
| BG01@6' | 2410452-03 | Soil | 10/24/24 09:10 | 10/24/24 18:45 |
| BG02@6" | 2410452-04 | Soil | 10/24/24 09:15 | 10/24/24 18:45 |
| BG02@4' | 2410452-05 | Soil | 10/24/24 09:20 | 10/24/24 18:45 |
| BG02@6' | 2410452-06 | Soil | 10/24/24 09:25 | 10/24/24 18:45 |
| BG03@6" | 2410452-07 | Soil | 10/24/24 09:30 | 10/24/24 18:45 |
| BG03@4' | 2410452-08 | Soil | 10/24/24 09:35 | 10/24/24 18:45 |
| BG03@6' | 2410452-09 | Soil | 10/24/24 09:40 | 10/24/24 18:45 |
| BG04@6" | 2410452-10 | Soil | 10/24/24 09:45 | 10/24/24 18:45 |
| BG04@4' | 2410452-11 | Soil | 10/24/24 09:50 | 10/24/24 18:45 |
| BG04@6' | 2410452-12 | Soil | 10/24/24 09:55 | 10/24/24 18:45 |
| BG05@6" | 2410452-13 | Soil | 10/24/24 10:00 | 10/24/24 18:45 |
| BG05@4' | 2410452-14 | Soil | 10/24/24 10:05 | 10/24/24 18:45 |
| BG05@6' | 2410452-15 | Soil | 10/24/24 10:10 | 10/24/24 18:45 |

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

Lab ID

Page 1 of 1

2410452

Send Data To:

Send Invoice To:

Client: Civitas/Tasman

Project Manager: Sam Vogt/Jacob Evans

Company: Tasman

Address: 6855 W. 119th Ave

E-Mail: svgot@tasman-geo.com; jevans@civiresources.com

Project Name/Location: HSR-ACKARD 5-2

City/State/Zip: Broomfield, CO 80020

AFE#: 24459

Phone: PM (610) 405-9078

Project Name: HSR-ACKARD 5-2

PO/Billing Codes: 8523.198

Sampler Name: Abigail Martin, Dan Tyson

Project Number: 24459

Contact:

| 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) | PAHs | pH, EC, SAR | Boron | Metals | | |
| BG01@6" | 10/24/24 | 9:00 | 2 | | | X | | | X | | | | | | | | X | X | X | pH, EC, SAR by Saturated paste preparation method Boron by Hot Water Soluble preparation Method Table 915 Metals - As, Ba, Cd, Cu, Pb, Ni, Se, Ag, Zn, Cr VI |
| BG01@4' | | 9:05 | | | | | | | | | | | | | | | | | | |
| BG01@6' | | 9:10 | | | | | | | | | | | | | | | | | | |
| BG02@6" | | 9:15 | | | | | | | | | | | | | | | | | | |
| BG02@4' | | 9:20 | | | | | | | | | | | | | | | | | | |
| BG02@6" | | 9:25 | | | | | | | | | | | | | | | | | | |
| BG03@6" | | 9:30 | | | | | | | | | | | | | | | | | | |
| BG03@4' | | 9:35 | | | | | | | | | | | | | | | | | | |
| BG03@6' | | 9:40 | | | | | | | | | | | | | | | | | | |
| BG04@6" | | 9:45 | | | | | | | | | | | | | | | | | | |
| BG04@4' | | 9:50 | | | | | | | | | | | | | | | | | | |
| BG04@6' | | 9:55 | | | | | | | | | | | | | | | | | | |
| BG05@6" | | 10:00 | | | | | | | | | | | | | | | | | | |
| BG05@4' | | 10:05 | | | | | | | | | | | | | | | | | | |
| BG05@6' | | 10:10 | | | | | | | | | | | | | | | | | | |

| | | | | |
|--|---|--|-------------|--------|
| Acquired by: Abigail Martin Date/Time: 10/24/24 17:22 | Received by: Tasman Lockbox Date/Time: 10/24/24 1845 | TAT Business Days | Field DO | Notes: |
| | | Same Day <input checked="" type="checkbox"/> | Field EC | |
| | | 1 Day | Field ORP | |
| | | 2 Days | Field pH | |
| | | 3 Days | Field Temp. | |
| Acquired by: Tasman Lockbox Date/Time: 10/24/24 1845 | Received by: [Signature] Date/Time: 10/24/24 1845 | Standard | Field Turb. | |
| | | | | |
| Signature Upon Receipt: S. 9 | Corrected Temperature: 8 | IR gun #: 1 | HNO3 lot #: | |

S₂

Sample Receipt Checklist

S2 Work Order# 2410452Client: CuAatman Client Project ID: HSR-ACKARD 5-2Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

| | | | | |
|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|

Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 5.9Thermometer # 1

| | Yes | No | N/A | Comments (if any) |
|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | on 20E |
| If custody seals are present, are they intact? ⁽¹⁾ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Are samples due within 48 hours present? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Same day |
| Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Were all samples received intact? ⁽¹⁾ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was adequate sample volume provided? ⁽¹⁾ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Does the COC agree with the number and type of sample bottles received? ⁽¹⁾ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Do the sample IDs on the bottle labels match the COC? ⁽¹⁾ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| For volatiles in water – is there headspace present? If yes, contact client and note in narrative. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If dissolved metals are requested, were samples field filtered? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Additional Comments (if any): | | | | |
| ⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative. | | | | |

AS
Custodian Printed Name

10/24/24
Date/Time



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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

BG01@6"
2410452-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/24/24 09:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Boron | ND | 2.00 | | mg/L | 1 | BHJ1106 | 10/25/24 | 10/26/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **10/24/24 09:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Arsenic | 3.22 | 0.200 | | mg/kg dry | 1 | BHJ1092 | 10/25/24 | 10/25/24 | EPA 6020B | |
| Barium | 71.3 | 0.400 | | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | | " | " | " | " | " | " | |
| Copper | 4.82 | 0.400 | | " | " | " | " | " | " | |
| Lead | 8.56 | 0.200 | | " | " | " | " | " | " | |
| Nickel | 4.61 | 0.400 | | " | " | " | " | " | " | |
| Silver | 0.0303 | 0.0200 | | " | " | " | " | " | " | |
| Zinc | 19.6 | 0.400 | | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/24/24 09:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BHJ1087 | 10/25/24 | 10/25/24 | EPA 7196A | |

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

Date Sampled: **10/24/24 09:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Calcium | 28.0 | 0.0500 | | mg/L dry | 1 | BHJ1064 | 10/24/24 | 10/25/24 | EPA 6020B | |
| Magnesium | 5.36 | 0.0500 | | " | " | " | " | " | " | |
| Sodium | 0.560 | 0.0500 | | " | " | " | " | " | " | |

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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

BG01@6"
2410452-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/24/24 09:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0254 | 0.00100 | units | 1 | BHJ1210 | 10/28/24 | 10/28/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/24 09:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 88.0 | | % | 1 | BHJ1120 | 10/25/24 | 10/25/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/24/24 09:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.0684 | 0.0100 | mmhos/cm | 1 | BHJ1074 | 10/24/24 | 10/25/24 | EPA 120.1 | |

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

Date Sampled: **10/24/24 09:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 7.27 | | pH Units | 1 | BHJ1076 | 10/24/24 | 10/25/24 | EPA 9045D | |

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Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

BG01@4'
2410452-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/24/24 09:05**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Boron | ND | 2.00 | mg/L | 1 | BHJ1106 | 10/25/24 | 10/26/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **10/24/24 09:05**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Arsenic | 2.48 | 0.200 | mg/kg dry | 1 | BHJ1092 | 10/25/24 | 10/25/24 | EPA 6020B | |
| Barium | 63.9 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 3.92 | 0.400 | " | " | " | " | " | " | |
| Lead | 5.28 | 0.200 | " | " | " | " | " | " | |
| Nickel | 3.51 | 0.400 | " | " | " | " | " | " | |
| Silver | ND | 0.0200 | " | " | " | " | " | " | |
| Zinc | 14.5 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/24/24 09:05**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHJ1087 | 10/25/24 | 10/25/24 | EPA 7196A | |

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

Date Sampled: **10/24/24 09:05**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Calcium | 31.7 | 0.0500 | mg/L dry | 1 | BHJ1064 | 10/24/24 | 10/25/24 | EPA 6020B | |
| Magnesium | 5.87 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 1.28 | 0.0500 | " | " | " | " | " | " | |

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

BG01@4'
2410452-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/24/24 09:05**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0548 | 0.00100 | units | 1 | BHJ1210 | 10/28/24 | 10/28/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/24 09:05**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 94.5 | | % | 1 | BHJ1120 | 10/25/24 | 10/25/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/24/24 09:05**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.148 | 0.0100 | mmhos/cm | 1 | BHJ1074 | 10/24/24 | 10/25/24 | EPA 120.1 | |

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

Date Sampled: **10/24/24 09:05**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.59 | | pH Units | 1 | BHJ1076 | 10/24/24 | 10/25/24 | EPA 9045D | |

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Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

BG01@6'
2410452-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/24/24 09:10**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Boron | ND | 2.00 | mg/L | 1 | BHJ1106 | 10/25/24 | 10/26/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **10/24/24 09:10**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Arsenic | 3.49 | 0.200 | mg/kg dry | 1 | BHJ1092 | 10/25/24 | 10/25/24 | EPA 6020B | |
| Barium | 118 | 0.400 | " | " | " | " | " | " | |
| Cadmium | 0.214 | 0.200 | " | " | " | " | " | " | |
| Copper | 5.71 | 0.400 | " | " | " | " | " | " | |
| Lead | 9.30 | 0.200 | " | " | " | " | " | " | |
| Nickel | 6.03 | 0.400 | " | " | " | " | " | " | |
| Silver | 0.0343 | 0.0200 | " | " | " | " | " | " | |
| Zinc | 22.5 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/24/24 09:10**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHJ1087 | 10/25/24 | 10/25/24 | EPA 7196A | |

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

Date Sampled: **10/24/24 09:10**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Calcium | 15.7 | 0.0500 | mg/L dry | 1 | BHJ1064 | 10/24/24 | 10/25/24 | EPA 6020B | |
| Magnesium | 7.71 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 9.50 | 0.0500 | " | " | " | " | " | " | |

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Broomfield CO, 80020

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

BG01@6'
2410452-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/24/24 09:10**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.491 | 0.00100 | units | 1 | BHJ1210 | 10/28/24 | 10/28/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/24 09:10**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 92.8 | | % | 1 | BHJ1120 | 10/25/24 | 10/25/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/24/24 09:10**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.185 | 0.0100 | mmhos/cm | 1 | BHJ1074 | 10/24/24 | 10/25/24 | EPA 120.1 | |

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

Date Sampled: **10/24/24 09:10**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.55 | | pH Units | 1 | BHJ1076 | 10/24/24 | 10/25/24 | EPA 9045D | |

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Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

BG02@6"
2410452-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/24/24 09:15**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Boron | ND | 2.00 | mg/L | 1 | BHJ1106 | 10/25/24 | 10/26/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **10/24/24 09:15**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Arsenic | 2.44 | 0.200 | mg/kg dry | 1 | BHJ1092 | 10/25/24 | 10/25/24 | EPA 6020B | |
| Barium | 47.6 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 4.06 | 0.400 | " | " | " | " | " | " | |
| Lead | 7.59 | 0.200 | " | " | " | " | " | " | |
| Nickel | 3.34 | 0.400 | " | " | " | " | " | " | |
| Silver | ND | 0.0200 | " | " | " | " | " | " | |
| Zinc | 15.7 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/24/24 09:15**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHJ1087 | 10/25/24 | 10/25/24 | EPA 7196A | |

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

Date Sampled: **10/24/24 09:15**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Calcium | 24.0 | 0.0500 | mg/L dry | 1 | BHJ1064 | 10/24/24 | 10/25/24 | EPA 6020B | |
| Magnesium | 3.71 | 0.0500 | " | " | " | " | " | " | |
| Sodium | ND | 0.0500 | " | " | " | " | " | " | |

Summit Scientific

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



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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

BG02@6"
2410452-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/24/24 09:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|---------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.00197 | 0.00100 | units | 1 | BHJ1210 | 10/28/24 | 10/28/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/24 09:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 97.3 | | % | 1 | BHJ1120 | 10/25/24 | 10/25/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/24/24 09:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.219 | 0.0100 | mmhos/cm | 1 | BHJ1074 | 10/24/24 | 10/25/24 | EPA 120.1 | |

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

Date Sampled: **10/24/24 09:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 7.29 | | pH Units | 1 | BHJ1076 | 10/24/24 | 10/25/24 | EPA 9045D | |

Summit Scientific

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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

BG02@4'
2410452-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/24/24 09:20**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Boron | ND | 2.00 | mg/L | 1 | BHJ1106 | 10/25/24 | 10/26/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **10/24/24 09:20**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Arsenic | 2.72 | 0.200 | mg/kg dry | 1 | BHJ1092 | 10/25/24 | 10/25/24 | EPA 6020B | |
| Barium | 72.1 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 4.35 | 0.400 | " | " | " | " | " | " | |
| Lead | 6.78 | 0.200 | " | " | " | " | " | " | |
| Nickel | 4.11 | 0.400 | " | " | " | " | " | " | |
| Silver | ND | 0.0200 | " | " | " | " | " | " | |
| Zinc | 17.3 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/24/24 09:20**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHJ1087 | 10/25/24 | 10/25/24 | EPA 7196A | |

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

Date Sampled: **10/24/24 09:20**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Calcium | 34.8 | 0.0500 | mg/L dry | 1 | BHJ1064 | 10/24/24 | 10/25/24 | EPA 6020B | |
| Magnesium | 4.79 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 1.07 | 0.0500 | " | " | " | " | " | " | |

Summit Scientific

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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

BG02@4'
2410452-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/24/24 09:20**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0451 | 0.00100 | units | 1 | BHJ1210 | 10/28/24 | 10/28/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/24 09:20**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 92.6 | | % | 1 | BHJ1120 | 10/25/24 | 10/25/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/24/24 09:20**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.160 | 0.0100 | mmhos/cm | 1 | BHJ1074 | 10/24/24 | 10/25/24 | EPA 120.1 | |

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

Date Sampled: **10/24/24 09:20**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.41 | | pH Units | 1 | BHJ1076 | 10/24/24 | 10/25/24 | EPA 9045D | |

Summit Scientific

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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

BG02@6'
2410452-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/24/24 09:25**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Boron | ND | 2.00 | | mg/L | 1 | BHJ1106 | 10/25/24 | 10/26/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **10/24/24 09:25**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Arsenic | 3.68 | 0.200 | | mg/kg dry | 1 | BHJ1092 | 10/25/24 | 10/25/24 | EPA 6020B | |
| Barium | 107 | 0.400 | | " | " | " | " | " | " | |
| Cadmium | 0.235 | 0.200 | | " | " | " | " | " | " | |
| Copper | 5.73 | 0.400 | | " | " | " | " | " | " | |
| Lead | 10.0 | 0.200 | | " | " | " | " | " | " | |
| Nickel | 5.96 | 0.400 | | " | " | " | " | " | " | |
| Silver | 0.0385 | 0.0200 | | " | " | " | " | " | " | |
| Zinc | 22.0 | 0.400 | | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/24/24 09:25**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BHJ1087 | 10/25/24 | 10/25/24 | EPA 7196A | |

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

Date Sampled: **10/24/24 09:25**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Calcium | 23.6 | 0.0500 | | mg/L dry | 1 | BHJ1064 | 10/24/24 | 10/25/24 | EPA 6020B | |
| Magnesium | 7.52 | 0.0500 | | " | " | " | " | " | " | |
| Sodium | 2.93 | 0.0500 | | " | " | " | " | " | " | |

Summit Scientific

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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

BG02@6'
2410452-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/24/24 09:25**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.134 | 0.00100 | units | 1 | BHJ1210 | 10/28/24 | 10/28/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/24 09:25**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|-------------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 92.7 | | % | 1 | BHJ1120 | 10/25/24 | 10/25/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/24/24 09:25**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.173 | 0.0100 | mmhos/cm | 1 | BHJ1074 | 10/24/24 | 10/25/24 | EPA 120.1 | |

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

Date Sampled: **10/24/24 09:25**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|-------------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.40 | | pH Units | 1 | BHJ1076 | 10/24/24 | 10/25/24 | EPA 9045D | |

Summit Scientific

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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

BG03@6"
2410452-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/24/24 09:30**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Boron | ND | 2.00 | mg/L | 1 | BHJ1106 | 10/25/24 | 10/26/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **10/24/24 09:30**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Arsenic | 2.24 | 0.200 | mg/kg dry | 1 | BHJ1092 | 10/25/24 | 10/25/24 | EPA 6020B | |
| Barium | 47.7 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 4.00 | 0.400 | " | " | " | " | " | " | |
| Lead | 6.11 | 0.200 | " | " | " | " | " | " | |
| Nickel | 3.28 | 0.400 | " | " | " | " | " | " | |
| Silver | ND | 0.0200 | " | " | " | " | " | " | |
| Zinc | 14.7 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/24/24 09:30**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHJ1087 | 10/25/24 | 10/25/24 | EPA 7196A | |

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

Date Sampled: **10/24/24 09:30**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Calcium | 27.2 | 0.0500 | mg/L dry | 1 | BHJ1064 | 10/24/24 | 10/25/24 | EPA 6020B | |
| Magnesium | 4.07 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 0.0607 | 0.0500 | " | " | " | " | " | " | |

Summit Scientific

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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

BG03@6"
2410452-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/24/24 09:30**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|---------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.00287 | 0.00100 | units | 1 | BHJ1210 | 10/28/24 | 10/28/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/24 09:30**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 96.4 | | % | 1 | BHJ1120 | 10/25/24 | 10/25/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/24/24 09:30**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.140 | 0.0100 | mmhos/cm | 1 | BHJ1074 | 10/24/24 | 10/25/24 | EPA 120.1 | |

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

Date Sampled: **10/24/24 09:30**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 7.73 | | pH Units | 1 | BHJ1076 | 10/24/24 | 10/25/24 | EPA 9045D | |

Summit Scientific

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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

BG03@4'
2410452-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/24/24 09:35**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Boron | ND | 2.00 | mg/L | 1 | BHJ1106 | 10/25/24 | 10/26/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **10/24/24 09:35**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Arsenic | 2.92 | 0.200 | mg/kg dry | 1 | BHJ1092 | 10/25/24 | 10/25/24 | EPA 6020B | |
| Barium | 118 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 4.98 | 0.400 | " | " | " | " | " | " | |
| Lead | 7.83 | 0.200 | " | " | " | " | " | " | |
| Nickel | 5.31 | 0.400 | " | " | " | " | " | " | |
| Silver | 0.0246 | 0.0200 | " | " | " | " | " | " | |
| Zinc | 20.2 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/24/24 09:35**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHJ1087 | 10/25/24 | 10/25/24 | EPA 7196A | |

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

Date Sampled: **10/24/24 09:35**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Calcium | 46.0 | 0.0500 | mg/L dry | 1 | BHJ1064 | 10/24/24 | 10/25/24 | EPA 6020B | |
| Magnesium | 3.52 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 0.912 | 0.0500 | " | " | " | " | " | " | |

Summit Scientific

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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

BG03@4'
2410452-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/24/24 09:35**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0349 | 0.00100 | units | 1 | BHJ1210 | 10/28/24 | 10/28/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/24 09:35**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 88.9 | | % | 1 | BHJ1120 | 10/25/24 | 10/25/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/24/24 09:35**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.153 | 0.0100 | mmhos/cm | 1 | BHJ1074 | 10/24/24 | 10/25/24 | EPA 120.1 | |

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

Date Sampled: **10/24/24 09:35**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.29 | | pH Units | 1 | BHJ1076 | 10/24/24 | 10/25/24 | EPA 9045D | |

Summit Scientific

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



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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

BG03@6'
2410452-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/24/24 09:40**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Boron | ND | 2.00 | | mg/L | 1 | BHJ1106 | 10/25/24 | 10/26/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **10/24/24 09:40**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Arsenic | 2.68 | 0.200 | | mg/kg dry | 1 | BHJ1092 | 10/25/24 | 10/25/24 | EPA 6020B | |
| Barium | 73.7 | 0.400 | | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | | " | " | " | " | " | " | |
| Copper | 4.82 | 0.400 | | " | " | " | " | " | " | |
| Lead | 6.60 | 0.200 | | " | " | " | " | " | " | |
| Nickel | 4.22 | 0.400 | | " | " | " | " | " | " | |
| Silver | ND | 0.0200 | | " | " | " | " | " | " | |
| Zinc | 18.3 | 0.400 | | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/24/24 09:40**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BHJ1087 | 10/25/24 | 10/25/24 | EPA 7196A | |

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

Date Sampled: **10/24/24 09:40**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Calcium | 201 | 0.0500 | | mg/L dry | 1 | BHJ1064 | 10/24/24 | 10/25/24 | EPA 6020B | |
| Magnesium | 8.49 | 0.0500 | | " | " | " | " | " | " | |
| Sodium | 0.0920 | 0.0500 | | " | " | " | " | " | " | |

Summit Scientific

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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

BG03@6'
2410452-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/24/24 09:40**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|---------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.00173 | 0.00100 | units | 1 | BHJ1210 | 10/28/24 | 10/28/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/24 09:40**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 77.5 | | % | 1 | BHJ1120 | 10/25/24 | 10/25/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/24/24 09:40**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.141 | 0.0100 | mmhos/cm | 1 | BHJ1074 | 10/24/24 | 10/25/24 | EPA 120.1 | |

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

Date Sampled: **10/24/24 09:40**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.62 | | pH Units | 1 | BHJ1076 | 10/24/24 | 10/25/24 | EPA 9045D | |

Summit Scientific

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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

BG04@6"
2410452-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/24/24 09:45**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Boron | ND | 2.00 | mg/L | 1 | BHJ1106 | 10/25/24 | 10/26/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **10/24/24 09:45**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Arsenic | 2.37 | 0.200 | mg/kg dry | 1 | BHJ1092 | 10/25/24 | 10/25/24 | EPA 6020B | |
| Barium | 47.1 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 3.84 | 0.400 | " | " | " | " | " | " | |
| Lead | 5.41 | 0.200 | " | " | " | " | " | " | |
| Nickel | 3.29 | 0.400 | " | " | " | " | " | " | |
| Silver | ND | 0.0200 | " | " | " | " | " | " | |
| Zinc | 14.6 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/24/24 09:45**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHJ1087 | 10/25/24 | 10/25/24 | EPA 7196A | |

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

Date Sampled: **10/24/24 09:45**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Calcium | 20.6 | 0.0500 | mg/L dry | 1 | BHJ1064 | 10/24/24 | 10/25/24 | EPA 6020B | |
| Magnesium | 3.33 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 0.128 | 0.0500 | " | " | " | " | " | " | |

Summit Scientific

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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

BG04@6"
2410452-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/24/24 09:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|---------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.00690 | 0.00100 | units | 1 | BHJ1210 | 10/28/24 | 10/28/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/24 09:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 95.6 | | % | 1 | BHJ1120 | 10/25/24 | 10/25/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/24/24 09:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.0431 | 0.0100 | mmhos/cm | 1 | BHJ1074 | 10/24/24 | 10/25/24 | EPA 120.1 | |

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

Date Sampled: **10/24/24 09:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 7.48 | | pH Units | 1 | BHJ1076 | 10/24/24 | 10/25/24 | EPA 9045D | |

Summit Scientific

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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

BG04@4'
2410452-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/24/24 09:50**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Boron | ND | 2.00 | mg/L | 1 | BHJ1106 | 10/25/24 | 10/26/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **10/24/24 09:50**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Arsenic | 2.39 | 0.200 | mg/kg dry | 1 | BHJ1092 | 10/25/24 | 10/25/24 | EPA 6020B | |
| Barium | 65.9 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 4.06 | 0.400 | " | " | " | " | " | " | |
| Lead | 5.44 | 0.200 | " | " | " | " | " | " | |
| Nickel | 3.77 | 0.400 | " | " | " | " | " | " | |
| Silver | ND | 0.0200 | " | " | " | " | " | " | |
| Zinc | 15.0 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/24/24 09:50**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHJ1087 | 10/25/24 | 10/25/24 | EPA 7196A | |

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

Date Sampled: **10/24/24 09:50**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Calcium | 54.6 | 0.0500 | mg/L dry | 1 | BHJ1064 | 10/24/24 | 10/25/24 | EPA 6020B | |
| Magnesium | 2.70 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 0.262 | 0.0500 | " | " | " | " | " | " | |

Summit Scientific

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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

BG04@4'
2410452-11 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/24/24 09:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|---------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.00939 | 0.00100 | units | 1 | BHJ1210 | 10/28/24 | 10/28/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/24 09:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 96.8 | | % | 1 | BHJ1120 | 10/25/24 | 10/25/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/24/24 09:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.0799 | 0.0100 | mmhos/cm | 1 | BHJ1074 | 10/24/24 | 10/25/24 | EPA 120.1 | |

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

Date Sampled: **10/24/24 09:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.84 | | pH Units | 1 | BHJ1076 | 10/24/24 | 10/25/24 | EPA 9045D | |

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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

BG04@6'
2410452-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/24/24 09:55**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Boron | ND | 2.00 | mg/L | 1 | BHJ1106 | 10/25/24 | 10/26/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **10/24/24 09:55**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Arsenic | 2.67 | 0.200 | mg/kg dry | 1 | BHJ1092 | 10/25/24 | 10/25/24 | EPA 6020B | |
| Barium | 99.1 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 4.72 | 0.400 | " | " | " | " | " | " | |
| Lead | 7.05 | 0.200 | " | " | " | " | " | " | |
| Nickel | 4.88 | 0.400 | " | " | " | " | " | " | |
| Silver | 0.0203 | 0.0200 | " | " | " | " | " | " | |
| Zinc | 19.3 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/24/24 09:55**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHJ1087 | 10/25/24 | 10/25/24 | EPA 7196A | |

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

Date Sampled: **10/24/24 09:55**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Calcium | 35.4 | 0.0500 | mg/L dry | 1 | BHJ1064 | 10/24/24 | 10/25/24 | EPA 6020B | |
| Magnesium | 2.91 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 0.616 | 0.0500 | " | " | " | " | " | " | |

Summit Scientific

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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

BG04@6'
2410452-12 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/24/24 09:55**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0268 | 0.00100 | units | 1 | BHJ1210 | 10/28/24 | 10/28/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/24 09:55**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 91.5 | | % | 1 | BHJ1120 | 10/25/24 | 10/25/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/24/24 09:55**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.122 | 0.0100 | mmhos/cm | 1 | BHJ1074 | 10/24/24 | 10/25/24 | EPA 120.1 | |

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

Date Sampled: **10/24/24 09:55**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.68 | | pH Units | 1 | BHJ1076 | 10/24/24 | 10/25/24 | EPA 9045D | |

Summit Scientific

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

Project: Civitas - HSR Ackard 5-2
Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

BG05@6"
2410452-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/24/24 10:00**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Boron | ND | 2.00 | mg/L | 1 | BHJ1106 | 10/25/24 | 10/26/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **10/24/24 10:00**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Arsenic | 2.15 | 0.200 | mg/kg dry | 1 | BHJ1092 | 10/25/24 | 10/25/24 | EPA 6020B | |
| Barium | 33.5 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 3.63 | 0.400 | " | " | " | " | " | " | |
| Lead | 5.91 | 0.200 | " | " | " | " | " | " | |
| Nickel | 2.77 | 0.400 | " | " | " | " | " | " | |
| Silver | ND | 0.0200 | " | " | " | " | " | " | |
| Zinc | 14.3 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/24/24 10:00**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHJ1087 | 10/25/24 | 10/25/24 | EPA 7196A | |

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

Date Sampled: **10/24/24 10:00**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Calcium | 18.8 | 0.0500 | mg/L dry | 1 | BHJ1064 | 10/24/24 | 10/25/24 | EPA 6020B | |
| Magnesium | 3.63 | 0.0500 | " | " | " | " | " | " | |
| Sodium | ND | 0.0500 | " | " | " | " | " | " | |

Summit Scientific

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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

BG05@6"
2410452-13 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/24/24 10:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | ND | 0.00100 | units | 1 | BHJ1210 | 10/28/24 | 10/28/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/24 10:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|-------------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 98.1 | | % | 1 | BHJ1120 | 10/25/24 | 10/25/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/24/24 10:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.155 | 0.0100 | mmhos/cm | 1 | BHJ1074 | 10/24/24 | 10/25/24 | EPA 120.1 | |

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

Date Sampled: **10/24/24 10:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|-------------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 6.50 | | pH Units | 1 | BHJ1076 | 10/24/24 | 10/25/24 | EPA 9045D | |

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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

BG05@4'
2410452-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Boron | ND | 2.00 | mg/L | 1 | BHJ1106 | 10/25/24 | 10/26/24 | EPA 6020B | |

Total Metals by EPA 6020B

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

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Arsenic | 2.80 | 0.200 | mg/kg dry | 1 | BHJ1092 | 10/25/24 | 10/25/24 | EPA 6020B | |
| Barium | 87.7 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 4.36 | 0.400 | " | " | " | " | " | " | |
| Lead | 6.71 | 0.200 | " | " | " | " | " | " | |
| Nickel | 4.36 | 0.400 | " | " | " | " | " | " | |
| Silver | 0.0212 | 0.0200 | " | " | " | " | " | " | |
| Zinc | 16.9 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

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

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHJ1087 | 10/25/24 | 10/25/24 | EPA 7196A | |

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

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

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Calcium | 28.6 | 0.0500 | mg/L dry | 1 | BHJ1064 | 10/24/24 | 10/25/24 | EPA 6020B | |
| Magnesium | 4.42 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 0.921 | 0.0500 | " | " | " | " | " | " | |

Summit Scientific

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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

BG05@4'
2410452-14 (Soil)

Summit Scientific

Calculated Analysis

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0423 | 0.00100 | units | 1 | BHJ1210 | 10/28/24 | 10/28/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 96.2 | | % | 1 | BHJ1120 | 10/25/24 | 10/25/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.168 | 0.0100 | mmhos/cm | 1 | BHJ1074 | 10/24/24 | 10/25/24 | EPA 120.1 | |

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

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.36 | | pH Units | 1 | BHJ1076 | 10/24/24 | 10/25/24 | EPA 9045D | |

Summit Scientific

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

Project: Civitas - HSR Ackard 5-2
Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

BG05@6'
2410452-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/24/24 10:10**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Boron | ND | 2.00 | mg/L | 1 | BHJ1106 | 10/25/24 | 10/26/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **10/24/24 10:10**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Arsenic | 2.66 | 0.200 | mg/kg dry | 1 | BHJ1092 | 10/25/24 | 10/25/24 | EPA 6020B | |
| Barium | 80.4 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 4.43 | 0.400 | " | " | " | " | " | " | |
| Lead | 6.43 | 0.200 | " | " | " | " | " | " | |
| Nickel | 4.20 | 0.400 | " | " | " | " | " | " | |
| Silver | ND | 0.0200 | " | " | " | " | " | " | |
| Zinc | 17.1 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/24/24 10:10**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHJ1087 | 10/25/24 | 10/25/24 | EPA 7196A | |

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

Date Sampled: **10/24/24 10:10**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Calcium | 31.3 | 0.0500 | mg/L dry | 1 | BHJ1064 | 10/24/24 | 10/25/24 | EPA 6020B | |
| Magnesium | 5.91 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 0.982 | 0.0500 | " | " | " | " | " | " | |

Summit Scientific

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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

BG05@6'
2410452-15 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/24/24 10:10**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0422 | 0.00100 | units | 1 | BHJ1210 | 10/28/24 | 10/28/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/24 10:10**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 95.8 | | % | 1 | BHJ1120 | 10/25/24 | 10/25/24 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/24/24 10:10**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.114 | 0.0100 | mmhos/cm | 1 | BHJ1074 | 10/24/24 | 10/25/24 | EPA 120.1 | |

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

Date Sampled: **10/24/24 10:10**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.79 | | pH Units | 1 | BHJ1076 | 10/24/24 | 10/25/24 | EPA 9045D | |

Summit Scientific

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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

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

Summit Scientific

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

Batch BHJ1106 - EPA 3050B

Blank (BHJ1106-BLK1)

Prepared: 10/25/24 Analyzed: 10/26/24

| | | | |
|-------|----|------|------|
| Boron | ND | 2.00 | mg/L |
|-------|----|------|------|

LCS (BHJ1106-BS1)

Prepared: 10/25/24 Analyzed: 10/26/24

| | | | | | | |
|-------|------|------|------|------|------|--------|
| Boron | 4.83 | 2.00 | mg/L | 5.00 | 96.7 | 80-120 |
|-------|------|------|------|------|------|--------|

Duplicate (BHJ1106-DUP1)

Source: 2410451-10

Prepared: 10/25/24 Analyzed: 10/26/24

| | | | | | | |
|-------|-------|------|------|-------|------|----|
| Boron | 0.450 | 2.00 | mg/L | 0.483 | 7.05 | 20 |
|-------|-------|------|------|-------|------|----|

Matrix Spike (BHJ1106-MS1)

Source: 2410451-10

Prepared: 10/25/24 Analyzed: 10/26/24

| | | | | | | | |
|-------|------|------|------|------|-------|------|--------|
| Boron | 4.87 | 2.00 | mg/L | 4.97 | 0.483 | 88.4 | 75-125 |
|-------|------|------|------|------|-------|------|--------|

Matrix Spike Dup (BHJ1106-MSD1)

Source: 2410451-10

Prepared: 10/25/24 Analyzed: 10/26/24

| | | | | | | | | | |
|-------|------|------|------|------|-------|------|--------|------|----|
| Boron | 5.08 | 2.00 | mg/L | 4.97 | 0.483 | 92.5 | 75-125 | 4.15 | 25 |
|-------|------|------|------|------|-------|------|--------|------|----|

Summit Scientific

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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHJ1092 - EPA 3050B

Blank (BHJ1092-BLK1)

Prepared & Analyzed: 10/25/24

| | | | |
|----------|----|--------|-----------|
| 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 (BHJ1092-BS1)

Prepared & Analyzed: 10/25/24

| | | | | | | |
|----------|------|--------|-----------|------|------|--------|
| Arsenic | 39.4 | 0.200 | mg/kg wet | 38.8 | 102 | 80-120 |
| Barium | 38.5 | 0.400 | " | 38.8 | 99.4 | 80-120 |
| Cadmium | 1.93 | 0.200 | " | 1.94 | 99.5 | 80-120 |
| Copper | 40.2 | 0.400 | " | 38.8 | 104 | 80-120 |
| Lead | 20.3 | 0.200 | " | 19.4 | 105 | 80-120 |
| Nickel | 40.4 | 0.400 | " | 38.8 | 104 | 80-120 |
| Silver | 1.96 | 0.0200 | " | 1.94 | 101 | 80-120 |
| Zinc | 40.1 | 0.400 | " | 38.8 | 103 | 80-120 |
| Selenium | 4.00 | 0.260 | " | 3.88 | 103 | 80-120 |

Duplicate (BHJ1092-DUP1)

Source: 2410451-15

Prepared & Analyzed: 10/25/24

| | | | | | | |
|----------|--------|--------|-----------|--------|--------|----|
| Arsenic | 4.61 | 0.200 | mg/kg dry | 4.61 | 0.0473 | 20 |
| Barium | 76.8 | 0.400 | " | 77.2 | 0.540 | 20 |
| Cadmium | 0.142 | 0.200 | " | 0.153 | 7.12 | 20 |
| Copper | 5.80 | 0.400 | " | 5.84 | 0.721 | 20 |
| Lead | 9.16 | 0.200 | " | 9.25 | 0.947 | 20 |
| Nickel | 6.64 | 0.400 | " | 6.69 | 0.823 | 20 |
| Silver | 0.0292 | 0.0200 | " | 0.0300 | 2.51 | 20 |
| Zinc | 24.7 | 0.400 | " | 24.6 | 0.557 | 20 |
| Selenium | ND | 0.260 | " | 0.191 | 200 | 20 |

QR-01

Summit Scientific

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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BHJ1092 - EPA 3050B

| Matrix Spike (BHJ1092-MS1) | | | Source: 2410451-15 | | Prepared & Analyzed: 10/25/24 | | | | | | |
|----------------------------|------|--------|--------------------|------|-------------------------------|------|--------|--|--|--|-------|
| Arsenic | 53.6 | 0.200 | mg/kg dry | 44.5 | 4.61 | 110 | 75-125 | | | | |
| Barium | 122 | 0.400 | " | 44.5 | 77.2 | 102 | 75-125 | | | | |
| Cadmium | 2.53 | 0.200 | " | 2.23 | 0.153 | 107 | 75-125 | | | | |
| Copper | 34.2 | 0.400 | " | 44.5 | 5.84 | 63.8 | 75-125 | | | | QM-05 |
| Lead | 33.8 | 0.200 | " | 22.3 | 9.25 | 110 | 75-125 | | | | |
| Nickel | 35.5 | 0.400 | " | 44.5 | 6.69 | 64.7 | 75-125 | | | | QM-05 |
| Silver | 2.40 | 0.0200 | " | 2.23 | 0.0300 | 107 | 75-125 | | | | |
| Zinc | 53.9 | 0.400 | " | 44.5 | 24.6 | 65.9 | 75-125 | | | | QM-05 |
| Selenium | 4.98 | 0.260 | " | 4.45 | 0.191 | 108 | 75-125 | | | | |

| Matrix Spike Dup (BHJ1092-MSD1) | | | Source: 2410451-15 | | Prepared & Analyzed: 10/25/24 | | | | | | |
|---------------------------------|------|--------|--------------------|------|-------------------------------|------|--------|--------|----|--|-------|
| Arsenic | 48.6 | 0.200 | mg/kg dry | 42.4 | 4.61 | 104 | 75-125 | 9.76 | 25 | | |
| Barium | 122 | 0.400 | " | 42.4 | 77.2 | 107 | 75-125 | 0.0374 | 25 | | |
| Cadmium | 2.60 | 0.200 | " | 2.12 | 0.153 | 115 | 75-125 | 2.71 | 25 | | |
| Copper | 31.3 | 0.400 | " | 42.4 | 5.84 | 60.1 | 75-125 | 8.82 | 25 | | QM-05 |
| Lead | 34.9 | 0.200 | " | 21.2 | 9.25 | 121 | 75-125 | 3.01 | 25 | | |
| Nickel | 32.7 | 0.400 | " | 42.4 | 6.69 | 61.4 | 75-125 | 8.09 | 25 | | QM-05 |
| Silver | 2.38 | 0.0200 | " | 2.12 | 0.0300 | 111 | 75-125 | 0.881 | 25 | | |
| Zinc | 50.3 | 0.400 | " | 42.4 | 24.6 | 60.6 | 75-125 | 6.93 | 25 | | QM-05 |
| Selenium | 4.94 | 0.260 | " | 4.24 | 0.191 | 112 | 75-125 | 0.697 | 25 | | |

Summit Scientific

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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHJ1087 - 3060A Mod

Blank (BHJ1087-BLK1)

Prepared & Analyzed: 10/25/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHJ1087-BS1)

Prepared & Analyzed: 10/25/24

Chromium, Hexavalent 25.6 0.30 mg/kg wet 25.0 103 80-120

Duplicate (BHJ1087-DUP1)

Source: 2410452-01

Prepared & Analyzed: 10/25/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHJ1087-MS1)

Source: 2410452-01

Prepared & Analyzed: 10/25/24

Chromium, Hexavalent 30.8 0.30 mg/kg dry 28.4 ND 108 75-125

Matrix Spike Dup (BHJ1087-MSD1)

Source: 2410452-01

Prepared & Analyzed: 10/25/24

Chromium, Hexavalent 30.2 0.30 mg/kg dry 28.4 ND 106 75-125 1.86 20

Summit Scientific

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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

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

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

Batch BHJ1064 - General Preparation

Blank (BHJ1064-BLK1)

Prepared: 10/24/24 Analyzed: 10/25/24

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

LCS (BHJ1064-BS1)

Prepared: 10/24/24 Analyzed: 10/25/24

| | | | | | | |
|-----------|------|--------|----------|------|------|--------|
| Calcium | 5.58 | 0.0500 | mg/L wet | 5.00 | 112 | 70-130 |
| Magnesium | 4.76 | 0.0500 | " | 5.00 | 95.2 | 70-130 |
| Sodium | 4.93 | 0.0500 | " | 5.00 | 98.7 | 70-130 |

Summit Scientific

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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

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

Summit Scientific

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

Batch BHJ1120 - General Preparation

Duplicate (BHJ1120-DUP1)

Source: 2410452-01

Prepared & Analyzed: 10/25/24

| | | | | | | | |
|----------|------|---|--|------|--|------|----|
| % Solids | 89.5 | % | | 88.0 | | 1.68 | 20 |
|----------|------|---|--|------|--|------|----|

Summit Scientific

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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

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

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

Batch BHJ1074 - General Preparation

Blank (BHJ1074-BLK1)

Prepared: 10/24/24 Analyzed: 10/25/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHJ1074-BS1)

Prepared: 10/24/24 Analyzed: 10/25/24

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BHJ1074-DUP1)

Source: 2410219-09

Prepared: 10/24/24 Analyzed: 10/25/24

Specific Conductance (EC) 0.228 0.0100 mmhos/cm 0.228 0.263 20

Summit Scientific

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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

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

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

Batch BHJ1076 - General Preparation

LCS (BHJ1076-BS1)

Prepared: 10/24/24 Analyzed: 10/25/24

| | | | | | |
|----|------|----------|------|------|--------|
| pH | 9.09 | pH Units | 9.18 | 99.0 | 95-105 |
|----|------|----------|------|------|--------|

Duplicate (BHJ1076-DUP1)

Source: 2410219-09

Prepared: 10/24/24 Analyzed: 10/25/24

| | | | | | |
|----|------|----------|------|------|----|
| pH | 8.90 | pH Units | 8.99 | 1.01 | 20 |
|----|------|----------|------|------|----|

Summit Scientific

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

Project: Civitas - HSR Ackard 5-2

Project Number: 24459
Project Manager: Sam Vogt

Reported:
10/28/24 17:02

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. |
| 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 |