

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 09, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Spike State CC (BKG)

Work Order #2407023

Enclosed are the results of analyses for samples received by Summit Scientific on 07/02/24 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Natalie Tessier". The signature is fluid and cursive, with the first name being more prominent.

Natalie Tessier For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 13:53

#### ANALYTICAL REPORT FOR SAMPLES

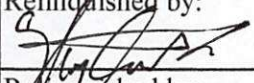
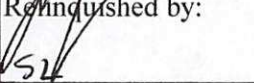
| Sample ID   | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-------------|---------------|--------|----------------|----------------|
| BKG01 - 4FT | 2407023-01    | Soil   | 07/02/24 00:00 | 07/02/24 16:30 |
| BKG01 - 5FT | 2407023-02    | Soil   | 07/02/24 00:00 | 07/02/24 16:30 |
| BKG02 - 4FT | 2407023-03    | Soil   | 07/02/24 00:00 | 07/02/24 16:30 |
| BKG02 - 5FT | 2407023-04    | Soil   | 07/02/24 00:00 | 07/02/24 16:30 |
| BKG03 - 4FT | 2407023-05    | Soil   | 07/02/24 00:00 | 07/02/24 16:30 |
| BKG03 - 5FT | 2407023-06    | Soil   | 07/02/24 00:00 | 07/02/24 16:30 |
| BKG04 - 4FT | 2407023-07    | Soil   | 07/02/24 00:00 | 07/02/24 16:30 |
| BKG04 - 5FT | 2407023-08    | Soil   | 07/02/24 00:00 | 07/02/24 16:30 |
| BKG05 - 4FT | 2407023-09    | Soil   | 07/02/24 00:00 | 07/02/24 16:30 |
| BKG05 - 5FT | 2407023-10    | Soil   | 07/02/24 00:00 | 07/02/24 16:30 |

Summit Scientific

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|                               |  |                                    |  |                        |  |
|-------------------------------|--|------------------------------------|--|------------------------|--|
| Client: Fremont Environmental |  | Send Data To:                      |  | Send Invoice To:       |  |
| Address:                      |  | Project Manager: Paul Henehan      |  | Company: Noble         |  |
| City/State/Zip:               |  | E-Mail: Fremont Distribution List  |  | Project Name/Location: |  |
| Phone: 303-261-6246           |  | Project Name: Spike State CC (BKG) |  | AFE#:                  |  |
| Sampler Name: Stanley Gilbert |  | Project Number: C023-156           |  | PO/Billing Codes:      |  |
|                               |  |                                    |  | Contact: Dan Peterson  |  |

|    |                    |              |              |                 | Preservative |      |      |             | Matrix |      |                | Analysis Requested |                   |     |           |                    |              |                        | Special Instructions |      |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------------|--------|------|----------------|--------------------|-------------------|-----|-----------|--------------------|--------------|------------------------|----------------------|------|
| ID | Sample Description | Date Sampled | Time Sampled | # of containers | HCl          | HNO3 | None | Other _____ | Water  | Soil | Air-Canister # | Other _____        | BTEX, TMBs, Naph. | TPH | PAH (915) | EC, SAR, Ph, Boron | Metals (915) | TDS, Chloride, Sulfate |                      | HOLD |
| 1  | BKG01-4ft          | 7/2/24       |              | 1               |              |      | X    |             |        | X    |                |                    |                   |     |           | X                  | X            |                        |                      |      |
| 2  | BKG01-5ft          |              |              |                 |              |      |      |             |        |      |                |                    |                   |     |           |                    |              |                        |                      |      |
| 3  | BKG02-4ft          |              |              |                 |              |      |      |             |        |      |                |                    |                   |     |           |                    |              |                        |                      |      |
| 4  | BKG02-5ft          |              |              |                 |              |      |      |             |        |      |                |                    |                   |     |           |                    |              |                        |                      |      |
| 5  | BKG03-4ft          |              |              |                 |              |      |      |             |        |      |                |                    |                   |     |           |                    |              |                        |                      |      |
| 6  | BKG03-5ft          |              |              |                 |              |      |      |             |        |      |                |                    |                   |     |           |                    |              |                        |                      |      |
| 7  | BKG04-4ft          |              |              |                 |              |      |      |             |        |      |                |                    |                   |     |           |                    |              |                        |                      |      |
| 8  | BKG04-5ft          |              |              |                 |              |      |      |             |        |      |                |                    |                   |     |           |                    |              |                        |                      |      |
| 9  | BKG05-4ft          |              |              |                 |              |      |      |             |        |      |                |                    |                   |     |           |                    |              |                        |                      |      |
| 10 | BKG05-5ft          |              |              |                 |              |      |      |             |        |      |                |                    |                   |     |           |                    |              |                        |                      |      |
| 11 |                    |              |              |                 |              |      |      |             |        |      |                |                    |                   |     |           |                    |              |                        |                      |      |
| 12 |                    |              |              |                 |              |      |      |             |        |      |                |                    |                   |     |           |                    |              |                        |                      |      |
| 13 |                    |              |              |                 |              |      |      |             |        |      |                |                    |                   |     |           |                    |              |                        |                      |      |
| 14 |                    |              |              |                 |              |      |      |             |        |      |                |                    |                   |     |           |                    |              |                        |                      |      |
| 15 |                    |              |              |                 |              |      |      |             |        |      |                |                    |                   |     |           |                    |              |                        |                      |      |

|                                                                                                     |                          |                                                                                                  |                         |                                              |             |        |
|-----------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------|-------------------------|----------------------------------------------|-------------|--------|
| Relinquished by:  | Date/Time: 7/2/24 15:50  | Received by: Summit North                                                                        | Date/Time: 7/2/24 15:50 | TAT Business Days                            | Field DO    | Notes: |
| Relinquished by:  | Date/Time: 7/2/24 16:30  | Received by:  | Date/Time: 7/2/24 16:30 | Same Day <input checked="" type="checkbox"/> | Field EC    |        |
|                                                                                                     |                          |                                                                                                  |                         | 1 Day <input type="checkbox"/>               | Field ORP   |        |
|                                                                                                     |                          |                                                                                                  |                         | 2 Days <input type="checkbox"/>              | Field pH    |        |
|                                                                                                     |                          |                                                                                                  |                         | 3 Days <input type="checkbox"/>              | Field Temp. |        |
|                                                                                                     |                          |                                                                                                  |                         | Standard <input type="checkbox"/>            | Field Turb. |        |
| Temperature Upon Receipt: 9.6                                                                       | Corrected Temperature: 9 | IR gun #: 1                                                                                      | HNO3 lot #:             |                                              |             |        |

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2407023Client: FremontClient Project ID: Spike State CC (BKG)Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐

Airbill #: \_\_\_\_\_

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

Matrix (Check all that apply)

Air

☐

Soil/Solid

☒

Water

☐

Other

☐

Temp (°C)

9.6

Thermometer #

1

|                                                                                                                                                                                                                                                                                                       | Yes                                 | No                                  | N/A                                 | Comments (if any) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| If samples require cooling, is the temperature < 6°C? <sup>(1)</sup><br><b>NOTE:</b> 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 ice            |
| If custody seals are present, are they intact? <sup>(1)</sup>                                                                                                                                                                                                                                         | <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?<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 checked="" type="checkbox"/> | <input type="checkbox"/>            | no sample times   |
| 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 type="checkbox"/>            | <input checked="" 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 type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                   |
| 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.

Custodian Printed Name

Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 13:53

**BKG01 - 4FT**  
**2407023-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/02/24 00:00**

| Analyte | Result | Reporting |       | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     | Units |          |         |          |          |           |       |
| Boron   | ND     | 2.00      | mg/L  | 1        | BHG0111 | 07/03/24 | 07/04/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **07/02/24 00:00**

| Analyte  | Result | Reporting |           | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
|          |        | Limit     | Units     |          |         |          |          |           |       |
| Arsenic  | 1.25   | 0.200     | mg/kg dry | 1        | BHG0092 | 07/03/24 | 07/04/24 | EPA 6020B |       |
| Barium   | 35.6   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | ND     | 0.200     | "         | "        | "       | "        | "        | "         |       |
| Copper   | 2.64   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Lead     | 3.02   | 0.200     | "         | "        | "       | "        | "        | "         |       |
| Nickel   | 2.68   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Silver   | 0.0216 | 0.0200    | "         | "        | "       | "        | "        | "         |       |
| Zinc     | 11.7   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Selenium | ND     | 0.260     | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/02/24 00:00**

| Analyte              | Result | Reporting |           | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
|                      |        | Limit     | Units     |          |         |          |          |           |       |
| Chromium, Hexavalent | ND     | 0.30      | mg/kg dry | 1        | BHG0107 | 07/03/24 | 07/03/24 | EPA 7196A |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte   | Result | Reporting |          | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
|           |        | Limit     | Units    |          |         |          |          |           |       |
| Calcium   | 71.5   | 0.0500    | mg/L dry | 1        | BHG0089 | 07/02/24 | 07/04/24 | EPA 6020B |       |
| Magnesium | 16.1   | 0.0500    | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 0.754  | 0.0500    | "        | "        | "       | "        | "        | "         |       |

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)  
Project Number: CO23-156  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 13:53

**BKG01 - 4FT**  
**2407023-01 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/02/24 00:00**

| Analyte                 | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0210 | 0.00100            | units | 1        | BHG0192 | 07/08/24 | 07/08/24 | Calculation |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte  | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 95.6   |                    | %     | 1        | BHG0115 | 07/03/24 | 07/08/24 | Calculation |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte                   | Result | Reporting<br>Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.153  | 0.0100             | mmhos/cm | 1        | BHG0091 | 07/02/24 | 07/08/24 | EPA 120.1 |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte | Result | Reporting<br>Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| pH      | 7.67   |                    | pH Units | 1        | BHG0090 | 07/02/24 | 07/08/24 | EPA 9045D |       |

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Wellington CO, 80549

Project: Noble - Spike State CC (BKG)  
Project Number: CO23-156  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 13:53

**BKG01 - 5FT**  
**2407023-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/02/24 00:00**

| Analyte | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |       |          |         |          |          |           |       |
| Boron   | ND     | 2.00      | mg/L  | 1        | BHG0111 | 07/03/24 | 07/04/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **07/02/24 00:00**

| Analyte  | Result | Reporting | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
|          |        | Limit     |           |          |         |          |          |           |       |
| Arsenic  | 1.32   | 0.200     | mg/kg dry | 1        | BHG0092 | 07/03/24 | 07/04/24 | EPA 6020B |       |
| Barium   | 36.5   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | ND     | 0.200     | "         | "        | "       | "        | "        | "         |       |
| Copper   | 2.91   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Lead     | 3.41   | 0.200     | "         | "        | "       | "        | "        | "         |       |
| Nickel   | 3.09   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Silver   | 0.0337 | 0.0200    | "         | "        | "       | "        | "        | "         |       |
| Zinc     | 12.7   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Selenium | ND     | 0.260     | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/02/24 00:00**

| Analyte              | Result | Reporting | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
|                      |        | Limit     |           |          |         |          |          |           |       |
| Chromium, Hexavalent | ND     | 0.30      | mg/kg dry | 1        | BHG0107 | 07/03/24 | 07/03/24 | EPA 7196A |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte   | Result | Reporting | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
|           |        | Limit     |          |          |         |          |          |           |       |
| Calcium   | 64.0   | 0.0500    | mg/L dry | 1        | BHG0089 | 07/02/24 | 07/04/24 | EPA 6020B |       |
| Magnesium | 14.8   | 0.0500    | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 0.743  | 0.0500    | "        | "        | "       | "        | "        | "         |       |

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Project: Noble - Spike State CC (BKG)  
Project Number: CO23-156  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 13:53

**BKG01 - 5FT**  
**2407023-02 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/02/24 00:00**

| Analyte                 | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0218 | 0.00100            | units | 1        | BHG0192 | 07/08/24 | 07/08/24 | Calculation |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte  | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 96.3   |                    | %     | 1        | BHG0115 | 07/03/24 | 07/08/24 | Calculation |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte                   | Result | Reporting<br>Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.133  | 0.0100             | mmhos/cm | 1        | BHG0091 | 07/02/24 | 07/08/24 | EPA 120.1 |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte | Result | Reporting<br>Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| pH      | 7.37   |                    | pH Units | 1        | BHG0090 | 07/02/24 | 07/08/24 | EPA 9045D |       |

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 13:53

**BKG02 - 4FT**  
**2407023-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/02/24 00:00**

| Analyte | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |       |          |         |          |          |           |       |
| Boron   | ND     | 2.00      | mg/L  | 1        | BHG0111 | 07/03/24 | 07/04/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **07/02/24 00:00**

| Analyte  | Result | Reporting | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
|          |        | Limit     |           |          |         |          |          |           |       |
| Arsenic  | 1.42   | 0.200     | mg/kg dry | 1        | BHG0092 | 07/03/24 | 07/04/24 | EPA 6020B |       |
| Barium   | 36.4   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | ND     | 0.200     | "         | "        | "       | "        | "        | "         |       |
| Copper   | 2.68   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Lead     | 3.31   | 0.200     | "         | "        | "       | "        | "        | "         |       |
| Nickel   | 2.78   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Silver   | 0.0297 | 0.0200    | "         | "        | "       | "        | "        | "         |       |
| Zinc     | 11.8   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Selenium | ND     | 0.260     | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/02/24 00:00**

| Analyte              | Result | Reporting | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
|                      |        | Limit     |           |          |         |          |          |           |       |
| Chromium, Hexavalent | ND     | 0.30      | mg/kg dry | 1        | BHG0107 | 07/03/24 | 07/03/24 | EPA 7196A |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte   | Result | Reporting | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
|           |        | Limit     |          |          |         |          |          |           |       |
| Calcium   | 62.1   | 0.0500    | mg/L dry | 1        | BHG0089 | 07/02/24 | 07/04/24 | EPA 6020B |       |
| Magnesium | 14.1   | 0.0500    | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 0.764  | 0.0500    | "        | "        | "       | "        | "        | "         |       |

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)  
Project Number: CO23-156  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 13:53

**BKG02 - 4FT**  
**2407023-03 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/02/24 00:00**

| Analyte                 | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0228 | 0.00100            | units | 1        | BHG0192 | 07/08/24 | 07/08/24 | Calculation |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte  | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 96.0   |                    | %     | 1        | BHG0115 | 07/03/24 | 07/08/24 | Calculation |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte                   | Result | Reporting<br>Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.0742 | 0.0100             | mmhos/cm | 1        | BHG0091 | 07/02/24 | 07/08/24 | EPA 120.1 |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte | Result | Reporting<br>Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| pH      | 6.76   |                    | pH Units | 1        | BHG0090 | 07/02/24 | 07/08/24 | EPA 9045D |       |

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)  
Project Number: CO23-156  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 13:53

**BKG02 - 5FT**  
**2407023-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/02/24 00:00**

| Analyte | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |  |       |          |         |          |          |           |       |
| Boron   | ND     | 2.00      |  | mg/L  | 1        | BHG0111 | 07/03/24 | 07/04/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **07/02/24 00:00**

| Analyte  | Result | Reporting |  | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
|          |        | Limit     |  |           |          |         |          |          |           |       |
| Arsenic  | 1.38   | 0.200     |  | mg/kg dry | 1        | BHG0092 | 07/03/24 | 07/04/24 | EPA 6020B |       |
| Barium   | 35.2   | 0.400     |  | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | ND     | 0.200     |  | "         | "        | "       | "        | "        | "         |       |
| Copper   | 2.71   | 0.400     |  | "         | "        | "       | "        | "        | "         |       |
| Lead     | 3.25   | 0.200     |  | "         | "        | "       | "        | "        | "         |       |
| Nickel   | 2.81   | 0.400     |  | "         | "        | "       | "        | "        | "         |       |
| Silver   | ND     | 0.0200    |  | "         | "        | "       | "        | "        | "         |       |
| Zinc     | 12.0   | 0.400     |  | "         | "        | "       | "        | "        | "         |       |
| Selenium | ND     | 0.260     |  | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/02/24 00:00**

| Analyte              | Result | Reporting |  | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
|                      |        | Limit     |  |           |          |         |          |          |           |       |
| Chromium, Hexavalent | ND     | 0.30      |  | mg/kg dry | 1        | BHG0107 | 07/03/24 | 07/03/24 | EPA 7196A |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte   | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|           |        | Limit     |  |          |          |         |          |          |           |       |
| Calcium   | 66.3   | 0.0500    |  | mg/L dry | 1        | BHG0089 | 07/02/24 | 07/04/24 | EPA 6020B |       |
| Magnesium | 15.9   | 0.0500    |  | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 0.840  | 0.0500    |  | "        | "        | "       | "        | "        | "         |       |

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)  
Project Number: CO23-156  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 13:53

**BKG02 - 5FT**  
**2407023-04 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/02/24 00:00**

| Analyte                 | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0240 | 0.00100            | units | 1        | BHG0192 | 07/08/24 | 07/08/24 | Calculation |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte  | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 95.8   |                    | %     | 1        | BHG0115 | 07/03/24 | 07/08/24 | Calculation |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte                   | Result | Reporting<br>Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.0845 | 0.0100             | mmhos/cm | 1        | BHG0091 | 07/02/24 | 07/08/24 | EPA 120.1 |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte | Result | Reporting<br>Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| pH      | 7.56   |                    | pH Units | 1        | BHG0090 | 07/02/24 | 07/08/24 | EPA 9045D |       |

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)  
Project Number: CO23-156  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 13:53

**BKG03 - 4FT**  
**2407023-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/02/24 00:00**

| Analyte | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |       |          |         |          |          |           |       |
| Boron   | ND     | 2.00      | mg/L  | 1        | BHG0111 | 07/03/24 | 07/04/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **07/02/24 00:00**

| Analyte  | Result | Reporting | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
|          |        | Limit     |           |          |         |          |          |           |       |
| Arsenic  | 1.33   | 0.200     | mg/kg dry | 1        | BHG0092 | 07/03/24 | 07/04/24 | EPA 6020B |       |
| Barium   | 42.8   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | ND     | 0.200     | "         | "        | "       | "        | "        | "         |       |
| Copper   | 2.77   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Lead     | 4.13   | 0.200     | "         | "        | "       | "        | "        | "         |       |
| Nickel   | 2.87   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Silver   | ND     | 0.0200    | "         | "        | "       | "        | "        | "         |       |
| Zinc     | 12.3   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Selenium | ND     | 0.260     | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/02/24 00:00**

| Analyte              | Result | Reporting | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
|                      |        | Limit     |           |          |         |          |          |           |       |
| Chromium, Hexavalent | ND     | 0.30      | mg/kg dry | 1        | BHG0107 | 07/03/24 | 07/03/24 | EPA 7196A |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte   | Result | Reporting | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
|           |        | Limit     |          |          |         |          |          |           |       |
| Calcium   | 76.3   | 0.0500    | mg/L dry | 1        | BHG0089 | 07/02/24 | 07/04/24 | EPA 6020B |       |
| Magnesium | 18.1   | 0.0500    | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 0.740  | 0.0500    | "        | "        | "       | "        | "        | "         |       |

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)  
Project Number: CO23-156  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 13:53

**BKG03 - 4FT**  
**2407023-05 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/02/24 00:00**

| Analyte                 | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0198 | 0.00100            | units | 1        | BHG0192 | 07/08/24 | 07/08/24 | Calculation |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte  | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 95.1   |                    | %     | 1        | BHG0115 | 07/03/24 | 07/08/24 | Calculation |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte                   | Result | Reporting<br>Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.0905 | 0.0100             | mmhos/cm | 1        | BHG0091 | 07/02/24 | 07/08/24 | EPA 120.1 |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte | Result | Reporting<br>Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| pH      | 7.01   |                    | pH Units | 1        | BHG0090 | 07/02/24 | 07/08/24 | EPA 9045D |       |

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)  
Project Number: CO23-156  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 13:53

**BKG03 - 5FT**  
**2407023-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/02/24 00:00**

| Analyte | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |       |          |         |          |          |           |       |
| Boron   | ND     | 2.00      | mg/L  | 1        | BHG0111 | 07/03/24 | 07/04/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **07/02/24 00:00**

| Analyte  | Result | Reporting | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
|          |        | Limit     |           |          |         |          |          |           |       |
| Arsenic  | 1.54   | 0.200     | mg/kg dry | 1        | BHG0092 | 07/03/24 | 07/04/24 | EPA 6020B |       |
| Barium   | 42.7   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | ND     | 0.200     | "         | "        | "       | "        | "        | "         |       |
| Copper   | 3.20   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Lead     | 3.82   | 0.200     | "         | "        | "       | "        | "        | "         |       |
| Nickel   | 3.16   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Silver   | ND     | 0.0200    | "         | "        | "       | "        | "        | "         |       |
| Zinc     | 14.0   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Selenium | ND     | 0.260     | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/02/24 00:00**

| Analyte              | Result | Reporting | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
|                      |        | Limit     |           |          |         |          |          |           |       |
| Chromium, Hexavalent | ND     | 0.30      | mg/kg dry | 1        | BHG0107 | 07/03/24 | 07/03/24 | EPA 7196A |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte   | Result | Reporting | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
|           |        | Limit     |          |          |         |          |          |           |       |
| Calcium   | 89.8   | 0.0500    | mg/L dry | 1        | BHG0089 | 07/02/24 | 07/04/24 | EPA 6020B |       |
| Magnesium | 21.3   | 0.0500    | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 1.13   | 0.0500    | "        | "        | "       | "        | "        | "         |       |

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 13:53

**BKG03 - 5FT**  
**2407023-06 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/02/24 00:00**

| Analyte                 | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0278 | 0.00100            | units | 1        | BHG0192 | 07/08/24 | 07/08/24 | Calculation |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte  | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 94.4   |                    | %     | 1        | BHG0115 | 07/03/24 | 07/08/24 | Calculation |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte                   | Result | Reporting<br>Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.0338 | 0.0100             | mmhos/cm | 1        | BHG0091 | 07/02/24 | 07/08/24 | EPA 120.1 |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte | Result | Reporting<br>Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| pH      | 7.02   |                    | pH Units | 1        | BHG0090 | 07/02/24 | 07/08/24 | EPA 9045D |       |

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)  
Project Number: CO23-156  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 13:53

**BKG04 - 4FT**  
**2407023-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/02/24 00:00**

| Analyte | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |       |          |         |          |          |           |       |
| Boron   | ND     | 2.00      | mg/L  | 1        | BHG0111 | 07/03/24 | 07/04/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **07/02/24 00:00**

| Analyte  | Result | Reporting | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
|          |        | Limit     |           |          |         |          |          |           |       |
| Arsenic  | 1.37   | 0.200     | mg/kg dry | 1        | BHG0092 | 07/03/24 | 07/04/24 | EPA 6020B |       |
| Barium   | 44.8   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | ND     | 0.200     | "         | "        | "       | "        | "        | "         |       |
| Copper   | 2.89   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Lead     | 3.48   | 0.200     | "         | "        | "       | "        | "        | "         |       |
| Nickel   | 3.20   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Silver   | ND     | 0.0200    | "         | "        | "       | "        | "        | "         |       |
| Zinc     | 13.6   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Selenium | ND     | 0.260     | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/02/24 00:00**

| Analyte              | Result | Reporting | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
|                      |        | Limit     |           |          |         |          |          |           |       |
| Chromium, Hexavalent | ND     | 0.30      | mg/kg dry | 1        | BHG0107 | 07/03/24 | 07/03/24 | EPA 7196A |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte   | Result | Reporting | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
|           |        | Limit     |          |          |         |          |          |           |       |
| Calcium   | 72.5   | 0.0500    | mg/L dry | 1        | BHG0089 | 07/02/24 | 07/04/24 | EPA 6020B |       |
| Magnesium | 15.8   | 0.0500    | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 0.741  | 0.0500    | "        | "        | "       | "        | "        | "         |       |

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 13:53

**BKG04 - 4FT**  
**2407023-07 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/02/24 00:00**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0206 | 0.00100         | units | 1        | BHG0192 | 07/08/24 | 07/08/24 | Calculation |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 96.4   |                 | %     | 1        | BHG0115 | 07/03/24 | 07/08/24 | Calculation |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.0172 | 0.0100          | mmhos/cm | 1        | BHG0091 | 07/02/24 | 07/08/24 | EPA 120.1 |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH      | 7.32   |                 | pH Units | 1        | BHG0090 | 07/02/24 | 07/08/24 | EPA 9045D |       |

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)  
Project Number: CO23-156  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 13:53

**BKG04 - 5FT**  
**2407023-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/02/24 00:00**

| Analyte | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |  |       |          |         |          |          |           |       |
| Boron   | ND     | 2.00      |  | mg/L  | 1        | BHG0111 | 07/03/24 | 07/04/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **07/02/24 00:00**

| Analyte  | Result | Reporting |  | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
|          |        | Limit     |  |           |          |         |          |          |           |       |
| Arsenic  | 1.21   | 0.200     |  | mg/kg dry | 1        | BHG0092 | 07/03/24 | 07/04/24 | EPA 6020B |       |
| Barium   | 39.0   | 0.400     |  | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | ND     | 0.200     |  | "         | "        | "       | "        | "        | "         |       |
| Copper   | 3.28   | 0.400     |  | "         | "        | "       | "        | "        | "         |       |
| Lead     | 3.45   | 0.200     |  | "         | "        | "       | "        | "        | "         |       |
| Nickel   | 2.87   | 0.400     |  | "         | "        | "       | "        | "        | "         |       |
| Silver   | ND     | 0.0200    |  | "         | "        | "       | "        | "        | "         |       |
| Zinc     | 12.8   | 0.400     |  | "         | "        | "       | "        | "        | "         |       |
| Selenium | ND     | 0.260     |  | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/02/24 00:00**

| Analyte              | Result | Reporting |  | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
|                      |        | Limit     |  |           |          |         |          |          |           |       |
| Chromium, Hexavalent | ND     | 0.30      |  | mg/kg dry | 1        | BHG0107 | 07/03/24 | 07/03/24 | EPA 7196A |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte   | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|           |        | Limit     |  |          |          |         |          |          |           |       |
| Calcium   | 43.9   | 0.0500    |  | mg/L dry | 1        | BHG0089 | 07/02/24 | 07/04/24 | EPA 6020B |       |
| Magnesium | 9.24   | 0.0500    |  | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 0.728  | 0.0500    |  | "        | "        | "       | "        | "        | "         |       |

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)  
Project Number: CO23-156  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 13:53

**BKG04 - 5FT**  
**2407023-08 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/02/24 00:00**

| Analyte                 | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0261 | 0.00100            | units | 1        | BHG0192 | 07/08/24 | 07/08/24 | Calculation |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte  | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 97.5   |                    | %     | 1        | BHG0115 | 07/03/24 | 07/08/24 | Calculation |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte                   | Result | Reporting<br>Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.118  | 0.0100             | mmhos/cm | 1        | BHG0091 | 07/02/24 | 07/08/24 | EPA 120.1 |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte | Result | Reporting<br>Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| pH      | 8.07   |                    | pH Units | 1        | BHG0090 | 07/02/24 | 07/08/24 | EPA 9045D |       |

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 13:53

**BKG05 - 4FT**  
**2407023-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/02/24 00:00**

| Analyte | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |       |          |         |          |          |           |       |
| Boron   | ND     | 2.00      | mg/L  | 1        | BHG0111 | 07/03/24 | 07/04/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **07/02/24 00:00**

| Analyte  | Result | Reporting | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
|          |        | Limit     |           |          |         |          |          |           |       |
| Arsenic  | 2.03   | 0.200     | mg/kg dry | 1        | BHG0092 | 07/03/24 | 07/04/24 | EPA 6020B |       |
| Barium   | 57.0   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | ND     | 0.200     | "         | "        | "       | "        | "        | "         |       |
| Copper   | 4.98   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Lead     | 5.15   | 0.200     | "         | "        | "       | "        | "        | "         |       |
| Nickel   | 5.40   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Silver   | 0.0208 | 0.0200    | "         | "        | "       | "        | "        | "         |       |
| Zinc     | 23.0   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Selenium | ND     | 0.260     | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/02/24 00:00**

| Analyte              | Result | Reporting | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
|                      |        | Limit     |           |          |         |          |          |           |       |
| Chromium, Hexavalent | ND     | 0.30      | mg/kg dry | 1        | BHG0107 | 07/03/24 | 07/03/24 | EPA 7196A |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte   | Result | Reporting | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
|           |        | Limit     |          |          |         |          |          |           |       |
| Calcium   | 149    | 0.0500    | mg/L dry | 1        | BHG0089 | 07/02/24 | 07/04/24 | EPA 6020B |       |
| Magnesium | 34.7   | 0.0500    | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 0.826  | 0.0500    | "        | "        | "       | "        | "        | "         |       |

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 13:53

**BKG05 - 4FT**  
**2407023-09 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/02/24 00:00**

| Analyte                 | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0158 | 0.00100            | units | 1        | BHG0192 | 07/08/24 | 07/08/24 | Calculation |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte  | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 90.8   |                    | %     | 1        | BHG0115 | 07/03/24 | 07/08/24 | Calculation |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte                   | Result | Reporting<br>Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.119  | 0.0100             | mmhos/cm | 1        | BHG0091 | 07/02/24 | 07/08/24 | EPA 120.1 |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte | Result | Reporting<br>Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| pH      | 7.84   |                    | pH Units | 1        | BHG0090 | 07/02/24 | 07/08/24 | EPA 9045D |       |

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)  
Project Number: CO23-156  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 13:53

**BKG05 - 5FT**  
**2407023-10 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/02/24 00:00**

| Analyte | Result | Reporting | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |       |          |         |          |          |           |       |
| Boron   | ND     | 2.00      | mg/L  | 1        | BHG0111 | 07/03/24 | 07/04/24 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **07/02/24 00:00**

| Analyte  | Result | Reporting | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
|          |        | Limit     |           |          |         |          |          |           |       |
| Arsenic  | 2.01   | 0.200     | mg/kg dry | 1        | BHG0092 | 07/03/24 | 07/04/24 | EPA 6020B |       |
| Barium   | 63.3   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | ND     | 0.200     | "         | "        | "       | "        | "        | "         |       |
| Copper   | 5.48   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Lead     | 5.45   | 0.200     | "         | "        | "       | "        | "        | "         |       |
| Nickel   | 5.98   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Silver   | 0.0314 | 0.0200    | "         | "        | "       | "        | "        | "         |       |
| Zinc     | 25.2   | 0.400     | "         | "        | "       | "        | "        | "         |       |
| Selenium | ND     | 0.260     | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **07/02/24 00:00**

| Analyte              | Result | Reporting | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
|                      |        | Limit     |           |          |         |          |          |           |       |
| Chromium, Hexavalent | ND     | 0.30      | mg/kg dry | 1        | BHG0107 | 07/03/24 | 07/03/24 | EPA 7196A |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte   | Result | Reporting | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
|           |        | Limit     |          |          |         |          |          |           |       |
| Calcium   | 172    | 0.0500    | mg/L dry | 1        | BHG0089 | 07/02/24 | 07/04/24 | EPA 6020B |       |
| Magnesium | 35.2   | 0.0500    | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 0.910  | 0.0500    | "        | "        | "       | "        | "        | "         |       |

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)  
Project Number: CO23-156  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 13:53

**BKG05 - 5FT**  
**2407023-10 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/02/24 00:00**

| Analyte                 | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0165 | 0.00100            | units | 1        | BHG0192 | 07/08/24 | 07/08/24 | Calculation |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte  | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 90.7   |                    | %     | 1        | BHG0115 | 07/03/24 | 07/08/24 | Calculation |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte                   | Result | Reporting<br>Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.224  | 0.0100             | mmhos/cm | 1        | BHG0091 | 07/02/24 | 07/08/24 | EPA 120.1 |       |

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

Date Sampled: **07/02/24 00:00**

| Analyte | Result | Reporting<br>Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|--------------------|----------|----------|---------|----------|----------|-----------|-------|
| pH      | 7.71   |                    | pH Units | 1        | BHG0090 | 07/02/24 | 07/08/24 | EPA 9045D |       |

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 13:53

**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 BHG0111 - EPA 3050B**

**Blank (BHG0111-BLK1)**

Prepared: 07/03/24 Analyzed: 07/04/24

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

**LCS (BHG0111-BS1)**

Prepared: 07/03/24 Analyzed: 07/04/24

|       |      |      |      |      |     |        |
|-------|------|------|------|------|-----|--------|
| Boron | 5.02 | 2.00 | mg/L | 5.00 | 100 | 80-120 |
|-------|------|------|------|------|-----|--------|

**Duplicate (BHG0111-DUP1)**

**Source: 2407020-01**

Prepared: 07/03/24 Analyzed: 07/04/24

|       |        |      |      |       |      |    |       |
|-------|--------|------|------|-------|------|----|-------|
| Boron | 0.0649 | 2.00 | mg/L | 0.107 | 48.6 | 20 | QR-01 |
|-------|--------|------|------|-------|------|----|-------|

**Matrix Spike (BHG0111-MS1)**

**Source: 2407020-01**

Prepared: 07/03/24 Analyzed: 07/04/24

|       |      |      |      |      |       |     |        |
|-------|------|------|------|------|-------|-----|--------|
| Boron | 5.13 | 2.00 | mg/L | 4.98 | 0.107 | 101 | 75-125 |
|-------|------|------|------|------|-------|-----|--------|

**Matrix Spike Dup (BHG0111-MSD1)**

**Source: 2407020-01**

Prepared: 07/03/24 Analyzed: 07/04/24

|       |      |      |      |      |       |     |        |      |    |
|-------|------|------|------|------|-------|-----|--------|------|----|
| Boron | 5.57 | 2.00 | mg/L | 4.98 | 0.107 | 110 | 75-125 | 8.34 | 25 |
|-------|------|------|------|------|-------|-----|--------|------|----|

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)  
Project Number: CO23-156  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 13:53

**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 BHG0092 - EPA 3050B**

**Blank (BHG0092-BLK1)**

Prepared: 07/03/24 Analyzed: 07/04/24

|          |    |        |           |
|----------|----|--------|-----------|
| 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 (BHG0092-BS1)**

Prepared: 07/03/24 Analyzed: 07/04/24

|          |      |        |           |      |      |        |
|----------|------|--------|-----------|------|------|--------|
| Arsenic  | 38.9 | 0.200  | mg/kg wet | 40.0 | 97.3 | 80-120 |
| Barium   | 39.7 | 0.400  | "         | 40.0 | 99.1 | 80-120 |
| Cadmium  | 1.90 | 0.200  | "         | 2.00 | 95.2 | 80-120 |
| Copper   | 39.0 | 0.400  | "         | 40.0 | 97.4 | 80-120 |
| Lead     | 19.1 | 0.200  | "         | 20.0 | 95.5 | 80-120 |
| Nickel   | 38.6 | 0.400  | "         | 40.0 | 96.5 | 80-120 |
| Silver   | 1.91 | 0.0200 | "         | 2.00 | 95.4 | 80-120 |
| Zinc     | 38.5 | 0.400  | "         | 40.0 | 96.4 | 80-120 |
| Selenium | 4.48 | 0.260  | "         | 4.00 | 112  | 80-120 |

**Duplicate (BHG0092-DUP1)**

Source: 2407020-01

Prepared: 07/03/24 Analyzed: 07/09/24

|          |         |        |           |        |      |    |       |
|----------|---------|--------|-----------|--------|------|----|-------|
| Arsenic  | 1.24    | 0.200  | mg/kg dry | 1.15   | 7.39 | 20 |       |
| Barium   | 30.2    | 0.400  | "         | 38.7   | 24.5 | 20 | QR-04 |
| Cadmium  | 0.0867  | 0.200  | "         | 0.0759 | 13.3 | 20 |       |
| Copper   | 4.99    | 0.400  | "         | 4.61   | 8.04 | 20 |       |
| Lead     | 2.74    | 0.200  | "         | 2.40   | 13.3 | 20 |       |
| Nickel   | 4.06    | 0.400  | "         | 3.75   | 7.93 | 20 |       |
| Silver   | 0.00945 | 0.0200 | "         | 0.0171 | 57.7 | 20 | QR-01 |
| Zinc     | 14.1    | 0.400  | "         | 13.7   | 3.18 | 20 |       |
| Selenium | ND      | 0.260  | "         | ND     |      | 20 |       |

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 13:53

### 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 BHG0092 - EPA 3050B

##### Matrix Spike (BHG0092-MS1)

Source: 2407020-01

Prepared: 07/03/24 Analyzed: 07/09/24

|          |      |        |           |      |        |      |        |  |  |       |
|----------|------|--------|-----------|------|--------|------|--------|--|--|-------|
| Arsenic  | 31.0 | 0.200  | mg/kg dry | 41.1 | 1.15   | 72.7 | 75-125 |  |  | QM-07 |
| Barium   | 78.0 | 0.400  | "         | 41.1 | 38.7   | 95.8 | 75-125 |  |  |       |
| Cadmium  | 2.14 | 0.200  | "         | 2.05 | 0.0759 | 100  | 75-125 |  |  |       |
| Copper   | 44.7 | 0.400  | "         | 41.1 | 4.61   | 97.5 | 75-125 |  |  |       |
| Lead     | 22.4 | 0.200  | "         | 20.5 | 2.40   | 97.3 | 75-125 |  |  |       |
| Nickel   | 44.3 | 0.400  | "         | 41.1 | 3.75   | 98.6 | 75-125 |  |  |       |
| Silver   | 1.99 | 0.0200 | "         | 2.05 | 0.0171 | 96.2 | 75-125 |  |  |       |
| Zinc     | 54.2 | 0.400  | "         | 41.1 | 13.7   | 98.7 | 75-125 |  |  |       |
| Selenium | 3.53 | 0.260  | "         | 4.11 | ND     | 86.0 | 75-125 |  |  |       |

##### Matrix Spike Dup (BHG0092-MSD1)

Source: 2407020-01

Prepared: 07/03/24 Analyzed: 07/09/24

|          |      |        |           |      |        |      |        |       |    |       |
|----------|------|--------|-----------|------|--------|------|--------|-------|----|-------|
| Arsenic  | 30.1 | 0.200  | mg/kg dry | 41.1 | 1.15   | 70.6 | 75-125 | 2.87  | 25 | QM-07 |
| Barium   | 92.7 | 0.400  | "         | 41.1 | 38.7   | 132  | 75-125 | 17.3  | 25 | QM-05 |
| Cadmium  | 2.17 | 0.200  | "         | 2.05 | 0.0759 | 102  | 75-125 | 1.36  | 25 |       |
| Copper   | 45.6 | 0.400  | "         | 41.1 | 4.61   | 99.7 | 75-125 | 1.96  | 25 |       |
| Lead     | 23.0 | 0.200  | "         | 20.5 | 2.40   | 100  | 75-125 | 2.89  | 25 |       |
| Nickel   | 44.9 | 0.400  | "         | 41.1 | 3.75   | 100  | 75-125 | 1.35  | 25 |       |
| Silver   | 2.02 | 0.0200 | "         | 2.05 | 0.0171 | 97.3 | 75-125 | 1.09  | 25 |       |
| Zinc     | 56.1 | 0.400  | "         | 41.1 | 13.7   | 103  | 75-125 | 3.38  | 25 |       |
| Selenium | 3.52 | 0.260  | "         | 4.11 | ND     | 85.7 | 75-125 | 0.338 | 25 |       |

##### Post Spike (BHG0092-PS1)

Source: 2407020-01

Prepared: 07/03/24 Analyzed: 07/04/24

|          |      |  |      |      |        |      |        |  |  |       |
|----------|------|--|------|------|--------|------|--------|--|--|-------|
| Arsenic  | 110  |  | ug/l | 100  | 2.80   | 107  | 75-125 |  |  |       |
| Barium   | 168  |  | "    | 100  | 94.1   | 74.3 | 75-125 |  |  | QM-01 |
| Cadmium  | 5.13 |  | "    | 5.00 | 0.185  | 99.0 | 75-125 |  |  |       |
| Copper   | 114  |  | "    | 100  | 11.2   | 103  | 75-125 |  |  |       |
| Lead     | 54.5 |  | "    | 50.0 | 5.85   | 97.3 | 75-125 |  |  |       |
| Nickel   | 112  |  | "    | 100  | 9.14   | 102  | 75-125 |  |  |       |
| Silver   | 4.98 |  | "    | 5.00 | 0.0417 | 98.7 | 75-125 |  |  |       |
| Zinc     | 136  |  | "    | 100  | 33.3   | 102  | 75-125 |  |  |       |
| Selenium | 10.9 |  | "    | 10.0 | 0.0540 | 108  | 75-125 |  |  |       |

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)  
Project Number: CO23-156  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 13:53

**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 BHG0107 - 3060A Mod**

**Blank (BHG0107-BLK1)**

Prepared & Analyzed: 07/03/24

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BHG0107-BS1)**

Prepared & Analyzed: 07/03/24

Chromium, Hexavalent 25.9 0.30 mg/kg wet 25.0 104 80-120

**Duplicate (BHG0107-DUP1)**

**Source: 2407020-01**

Prepared & Analyzed: 07/03/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BHG0107-MS1)**

**Source: 2407020-01**

Prepared & Analyzed: 07/03/24

Chromium, Hexavalent 26.9 0.30 mg/kg dry 25.7 ND 105 75-125

**Matrix Spike Dup (BHG0107-MSD1)**

**Source: 2407020-01**

Prepared & Analyzed: 07/03/24

Chromium, Hexavalent 26.0 0.30 mg/kg dry 25.7 ND 101 75-125 3.50 20

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 13:53

**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 BHG0089 - General Preparation**

**Blank (BHG0089-BLK1)**

Prepared: 07/02/24 Analyzed: 07/03/24

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

**LCS (BHG0089-BS1)**

Prepared: 07/02/24 Analyzed: 07/03/24

|           |      |        |          |      |     |        |
|-----------|------|--------|----------|------|-----|--------|
| Calcium   | 5.48 | 0.0500 | mg/L wet | 5.00 | 110 | 70-130 |
| Magnesium | 5.38 | 0.0500 | "        | 5.00 | 108 | 70-130 |
| Sodium    | 5.50 | 0.0500 | "        | 5.00 | 110 | 70-130 |

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 13:53

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**  
**Summit Scientific**

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

**Batch BHG0115 - General Preparation**

| Duplicate (BHG0115-DUP1) |      | Source: 2407023-01 |   | Prepared: 07/03/24 Analyzed: 07/08/24 |          |
|--------------------------|------|--------------------|---|---------------------------------------|----------|
| % Solids                 | 96.1 |                    | % | 95.6                                  | 0.515 20 |

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 13:53

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

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

**Batch BHG0091 - General Preparation**

**Blank (BHG0091-BLK1)**

Prepared: 07/02/24 Analyzed: 07/08/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHG0091-BS1)**

Prepared: 07/02/24 Analyzed: 07/08/24

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 103 95-105

**Duplicate (BHG0091-DUP1)**

**Source: 2407020-01**

Prepared: 07/02/24 Analyzed: 07/08/24

Specific Conductance (EC) 0.243 0.0100 mmhos/cm 0.247 1.84 20

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 13:53

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

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

**Batch BHG0090 - General Preparation**

**LCS (BHG0090-BS1)**

Prepared: 07/02/24 Analyzed: 07/08/24

|    |      |          |      |      |        |
|----|------|----------|------|------|--------|
| pH | 9.16 | pH Units | 9.18 | 99.8 | 95-105 |
|----|------|----------|------|------|--------|

**Duplicate (BHG0090-DUP1)**

Source: 2407020-01

Prepared: 07/02/24 Analyzed: 07/08/24

|    |      |          |      |       |    |
|----|------|----------|------|-------|----|
| pH | 8.82 | pH Units | 8.85 | 0.340 | 20 |
|----|------|----------|------|-------|----|

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156  
Project Manager: Paul Henchan

**Reported:**  
07/09/24 13:53

### Notes and Definitions

|       |                                                                                                                                                                                                           |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| QR-04 | The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.                                                     |
| QR-01 | Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.                                       |
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.                                                                     |
| QM-05 | The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid. |
| QM-01 | The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.                                                                                         |
| 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                                                                                                                                                                               |