

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 10, 2025

Daniel Simpson
Tasman Geosciences
6855 W. 119th Ave.
Broomfield, CO 80020
RE: Noble - UPRC 31-12H6
Work Order #2501179

Enclosed are the results of analyses for samples received by Summit Scientific on 01/14/25 18:16. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury
President



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

Project: Noble - UPRC 31-12H6


Project Number: UWRWE-A4271-ABN
 Project Manager: Daniel Simpson

Reported:
 03/10/25 12:58

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|------------|---------------|--------|----------------|----------------|
| FL01-08@4' | 2501179-01 | Soil | 01/14/25 14:18 | 01/14/25 18:16 |
| FL01-09@4' | 2501179-02 | Soil | 01/14/25 14:27 | 01/14/25 18:16 |
| FL01-10@4' | 2501179-03 | Soil | 01/14/25 14:30 | 01/14/25 18:16 |
| FL01-11@4' | 2501179-04 | Soil | 01/14/25 14:38 | 01/14/25 18:16 |
| FL01-12@4' | 2501179-05 | Soil | 01/14/25 14:41 | 01/14/25 18:16 |
| BKG03@0-6" | 2501179-06 | Soil | 01/14/25 15:06 | 01/14/25 18:16 |
| BKG03@2' | 2501179-07 | Soil | 01/14/25 15:09 | 01/14/25 18:16 |
| BKG03@3' | 2501179-08 | Soil | 01/14/25 15:10 | 01/14/25 18:16 |
| BKG03@4' | 2501179-09 | Soil | 01/14/25 15:12 | 01/14/25 18:16 |
| BKG03@6' | 2501179-10 | Soil | 01/14/25 15:33 | 01/14/25 18:16 |
| BKG04@0-6" | 2501179-11 | Soil | 01/14/25 15:15 | 01/14/25 18:16 |
| BKG04@2' | 2501179-12 | Soil | 01/14/25 15:17 | 01/14/25 18:16 |
| BKG04@3' | 2501179-13 | Soil | 01/14/25 15:20 | 01/14/25 18:16 |
| BKG04@4' | 2501179-14 | Soil | 01/14/25 15:22 | 01/14/25 18:16 |
| BKG04@6' | 2501179-15 | Soil | 01/14/25 15:27 | 01/14/25 18:16 |

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

| | |
|---------|-------------|
| Lab ID | Page 1 of 1 |
| 2501179 | |

| | | |
|--|--|--------------------------------------|
| | Send Data To: | Send Invoice To: |
| Client: Tasman, Inc. | Project Manager: Daniel Simpson | Company: Noble Energy |
| Address: 6855 W. 119th Ave. | E-Mail: Tas-chevron-5@tasman-geo.com | Project Name/Location: UPRC 31-12 H6 |
| City/State/Zip: Broomfield / CO/ 80020 | rbueuf27@chevron.com, jason.davidson@chevron.com | AFE#: UWRWF-A4271-AES |
| Phone: 303-487-1228 | Project Name: UPRC 31-12 H6 | PO/Billing Codes: |
| Sampler Name: J Gustafson | Project Number: | Contact: Mike Montoya |

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative | | | | Matrix | | | | Analysis Requested | | | | | | Special Instructions |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|----------------|-------|--------------------|-----------|-----------|-----------|-------------|-------------|--------------------------------|
| | | | | | HCl | HNO3 | None | Other | Water | Soil | Air-Canister # | Other | Metals - 915 | VOC - 915 | TPH - 915 | PAH - 915 | SAR, EC, pH | Boron - HWS | |
| 1 | FL01-08 @ 4' | 1/14/25 | 1418 | 2 | | | X | | | X | | | X | X | X | X | X | | SAR, EC, pH by saturated paste |
| 2 | FL01-09 @ 4' | | 1427 | 1 | | | | | | | | | | | | | | | |
| 3 | FL01-10 @ 4' | | 1436 | 1 | | | | | | | | | | | | | | | |
| 4 | FL01-11 @ 4' | | 1438 | 1 | | | | | | | | | | | | | | | |
| 5 | FL01-12 @ 4' | | 1441 | 1 | | | | | | | | | | | | | | | |
| 6 | BK603 @ 0-6" | | 1506 | 1 | | | | | | | | | | | | | | | |
| 7 | BK603 @ 2' | | 1509 | 1 | | | | | | | | | | | | | | | |
| 8 | BK603 @ 3' | | 1510 | 1 | | | | | | | | | | | | | | | |
| 9 | BK603 @ 4' | | 1512 | 1 | | | | | | | | | | | | | | | |
| 10 | BK603 @ 6' | | 1533 | 1 | | | | | | | | | | | | | | | |
| 11 | BK604 @ 0-6" | | 1516 | 1 | | | | | | | | | | | | | | | |
| 12 | BK604 @ 2' | | 1517 | 1 | | | | | | | | | | | | | | | |
| 13 | BK604 @ 3' | | 1520 | 1 | | | | | | | | | | | | | | | |
| 14 | BK604 @ 4' | | 1522 | 1 | | | | | | | | | | | | | | | |
| 15 | BK604 @ 6' | | 1527 | 1 | | | | | | | | | | | | | | | |

| | | | | | | |
|-------------------------------|--------------------------|-----------------------------|-------------------------|-------------------|-------------|--------|
| Relinquished by: | Date/Time: 1/14/25 1800 | Received by: Tasman Lockbox | Date/Time: 1/14/25 1800 | TAT Business Days | Field DO | Notes: |
| | | | | Same Day | Field EC | |
| Relinquished by: | Date/Time: 1/14/25 1800 | Received by: | Date/Time: 1/14/25 1800 | 1 Day | Field ORP | |
| Tasman Lockbox | | | | 2 Days | Field pH | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 3 Days | Field Temp. | |
| | | | | Standard | Field Turb. | |
| Temperature Upon Receipt: 7.1 | Corrected Temperature: 9 | IR gun #: 1 | HNO3 lot #: | | | |

S₂

Sample Receipt Checklist

S2 Work Order# 2501179

Client: Tasman Client Project ID: VPRC 31-12H4

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

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

Temp (°C) 7.1 Thermometer # 1

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

AS
Custodian Printed Name

1/14/05
Date/Time

300002



Tasman Geosciences
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Broomfield CO, 80020

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

FL01-08@4'
2501179-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/14/25 14:18**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BIA0933 | 01/20/25 | 01/26/25 | EPA 8260B | |
| Toluene | ND | 0.0050 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | | " | " | " | " | " | " | |

Date Sampled: **01/14/25 14:18**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0399 | 99.8 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0403 | 101 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0412 | 103 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/14/25 14:18**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BIA0934 | 01/20/25 | 01/22/25 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **01/14/25 14:18**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | 16.6 | 132 % | | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

FL01-08@4'
2501179-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/14/25 14:18**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BIA0997 | 01/22/25 | 01/30/25 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **01/14/25 14:18**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0183 | 55.0 % | 40-140 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0164 | 49.3 % | 40-140 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/14/25 14:18**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BIB1185 | 02/20/25 | 03/05/25 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **01/14/25 14:18**

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

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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

FL01-08@4'
2501179-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 9.70 | 0.200 | mg/kg dry | 1 | BIA1508 | 01/31/25 | 02/12/25 | EPA 6020B | |
| Barium | 60.0 | 0.400 | " | " | " | " | " | " | |
| Cadmium | ND | 0.200 | " | " | " | " | " | " | |
| Copper | 3.71 | 0.400 | " | " | " | " | " | " | |
| Lead | 7.89 | 0.200 | " | " | " | " | " | " | |
| Nickel | 5.51 | 0.400 | " | " | " | " | " | " | |
| Silver | 0.0252 | 0.0200 | " | " | " | " | " | " | |
| Zinc | 24.3 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/14/25 14:18**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BIB0041 | 02/03/25 | 02/05/25 | EPA 7196A | |

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

Date Sampled: **01/14/25 14:18**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 258 | 0.0500 | mg/L dry | 1 | BIB0366 | 02/07/25 | 02/15/25 | EPA 6020B | |
| Magnesium | 178 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 150 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **01/14/25 14:18**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.76 | 0.00100 | units | 1 | BIB0883 | 02/17/25 | 02/17/25 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
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Reported:
03/10/25 12:58

FL01-08@4'
2501179-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/14/25 14:18**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | | | | | | | | |
| % Solids | 89.6 | | | % | 1 | BIA1444 | 01/30/25 | 01/31/25 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/14/25 14:18**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Specific Conductance (EC) | 0.337 | 0.0100 | | mmhos/cm | 1 | BIB0368 | 02/07/25 | 02/10/25 | EPA 120.1 | |

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

Date Sampled: **01/14/25 14:18**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| pH | 8.03 | | | pH Units | 1 | BIB0367 | 02/07/25 | 02/10/25 | EPA 9045D | |

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Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

FL01-09@4'
2501179-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/14/25 14:27**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Benzene | ND | 0.0020 | mg/kg | 1 | BIA0933 | 01/20/25 | 01/26/25 | EPA 8260B | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | " | " | " | " | " | |

Date Sampled: **01/14/25 14:27**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | Units | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0416 | 104 % | 50-150 | " | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0405 | 101 % | 50-150 | " | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0416 | 104 % | 50-150 | " | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/14/25 14:27**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BIA0934 | 01/20/25 | 01/22/25 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **01/14/25 14:27**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | Units | | | | | | |
| Surrogate: o-Terphenyl | 15.2 | 121 % | 30-150 | " | " | " | " | " | |

PAH by EPA Method 8270D SIM

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Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

FL01-09@4'
2501179-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/14/25 14:27**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BIA0997 | 01/22/25 | 01/30/25 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **01/14/25 14:27**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0205 | 61.6 % | 40-140 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0193 | 57.8 % | 40-140 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/14/25 14:27**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BIB1185 | 02/20/25 | 03/05/25 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **01/14/25 14:27**

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

Summit Scientific

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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

FL01-09@4'
2501179-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|
| Arsenic | 6.22 | 0.200 | mg/kg dry | 1 | BIA1508 | 01/31/25 | 02/12/25 | EPA 6020B |
| Barium | 194 | 0.400 | " | " | " | " | " | " |
| Cadmium | 0.396 | 0.200 | " | " | " | " | " | " |
| Copper | 8.17 | 0.400 | " | " | " | " | " | " |
| Lead | 11.4 | 0.200 | " | " | " | " | " | " |
| Nickel | 9.55 | 0.400 | " | " | " | " | " | " |
| Silver | 0.0615 | 0.0200 | " | " | " | " | " | " |
| Zinc | 31.0 | 0.400 | " | " | " | " | " | " |
| Selenium | 0.320 | 0.260 | " | " | " | " | " | " |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/14/25 14:27**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BIB0041 | 02/03/25 | 02/05/25 | EPA 7196A | |

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

Date Sampled: **01/14/25 14:27**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 217 | 0.0500 | mg/L dry | 1 | BIB0366 | 02/07/25 | 02/15/25 | EPA 6020B | |
| Magnesium | 166 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 59.0 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **01/14/25 14:27**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.733 | 0.00100 | units | 1 | BIB0883 | 02/17/25 | 02/17/25 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/14/25 14:27**

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

Summit Scientific

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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

FL01-09@4'
2501179-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

| | | | | | | | |
|----------|------|---|---|---------|----------|----------|-------------|
| % Solids | 91.4 | % | 1 | BIA1444 | 01/30/25 | 01/31/25 | Calculation |
|----------|------|---|---|---------|----------|----------|-------------|

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/14/25 14:27**


| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 2.61 | 0.0100 | mmhos/cm | 1 | BIB0368 | 02/07/25 | 02/10/25 | EPA 120.1 | |

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

Date Sampled: **01/14/25 14:27**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.09 | | pH Units | 1 | BIB0367 | 02/07/25 | 02/10/25 | EPA 9045D | |

Summit Scientific



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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

FL01-10@4'
2501179-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/14/25 14:30**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Benzene | ND | 0.0020 | mg/kg | 1 | BIA0933 | 01/20/25 | 01/26/25 | EPA 8260B | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | " | " | " | " | " | |

Date Sampled: **01/14/25 14:30**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | Units | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0401 | 100 % | 50-150 | " | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0400 | 100 % | 50-150 | " | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0400 | 100 % | 50-150 | " | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/14/25 14:30**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BIA0934 | 01/20/25 | 01/22/25 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **01/14/25 14:30**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | Units | | | | | | |
| Surrogate: o-Terphenyl | 11.5 | 92.0 % | 30-150 | " | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

FL01-10@4'
2501179-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/14/25 14:30**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BIA0997 | 01/22/25 | 01/30/25 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **01/14/25 14:30**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0187 | 56.1 % | 40-140 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0167 | 50.1 % | 40-140 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/14/25 14:30**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 6.56 | mg/L | 1 | BIB1185 | 02/20/25 | 03/05/25 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **01/14/25 14:30**

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

Summit Scientific

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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

FL01-10@4'
2501179-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|
| Arsenic | 6.21 | 0.200 | mg/kg dry | 1 | BIA1508 | 01/31/25 | 02/12/25 | EPA 6020B |
| Barium | 192 | 0.400 | " | " | " | " | " | " |
| Cadmium | 0.394 | 0.200 | " | " | " | " | " | " |
| Copper | 8.40 | 0.400 | " | " | " | " | " | " |
| Lead | 11.7 | 0.200 | " | " | " | " | " | " |
| Nickel | 9.44 | 0.400 | " | " | " | " | " | " |
| Silver | 0.0586 | 0.0200 | " | " | " | " | " | " |
| Zinc | 31.9 | 0.400 | " | " | " | " | " | " |
| Selenium | 0.296 | 0.260 | " | " | " | " | " | " |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/14/25 14:30**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BIB0041 | 02/03/25 | 02/05/25 | EPA 7196A | |

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

Date Sampled: **01/14/25 14:30**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 117 | 0.0500 | mg/L dry | 1 | BIB0366 | 02/07/25 | 02/15/25 | EPA 6020B | |
| Magnesium | 44.0 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 60.2 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **01/14/25 14:30**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.20 | 0.00100 | units | 1 | BIB0883 | 02/17/25 | 02/17/25 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/14/25 14:30**

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

Summit Scientific

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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

FL01-10@4'
2501179-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

| | | | | | | | |
|----------|------|---|---|---------|----------|----------|-------------|
| % Solids | 86.6 | % | 1 | BIA1444 | 01/30/25 | 01/31/25 | Calculation |
|----------|------|---|---|---------|----------|----------|-------------|

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/14/25 14:30**


| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 1.57 | 0.0100 | mmhos/cm | 1 | BIB0368 | 02/07/25 | 02/10/25 | EPA 120.1 | |

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

Date Sampled: **01/14/25 14:30**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.02 | | pH Units | 1 | BIB0367 | 02/07/25 | 02/10/25 | EPA 9045D | |

Summit Scientific



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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

FL01-11@4'
2501179-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/14/25 14:38**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BIA0933 | 01/20/25 | 01/26/25 | EPA 8260B | |
| Toluene | ND | 0.0050 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | | " | " | " | " | " | " | |

Date Sampled: **01/14/25 14:38**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0414 | 104 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0400 | 99.9 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0408 | 102 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/14/25 14:38**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BIA0934 | 01/20/25 | 01/22/25 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **01/14/25 14:38**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | 12.8 | 102 % | | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

FL01-11@4'
2501179-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/14/25 14:38**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BIA0997 | 01/22/25 | 01/30/25 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **01/14/25 14:38**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0218 | 65.3 % | 40-140 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0216 | 64.8 % | 40-140 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/14/25 14:38**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BIB1185 | 02/20/25 | 03/05/25 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **01/14/25 14:38**

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

Summit Scientific

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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

FL01-11@4'
2501179-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 6.21 | 0.200 | mg/kg dry | 1 | BIA1508 | 01/31/25 | 02/12/25 | EPA 6020B | |
| Barium | 214 | 0.400 | " | " | " | " | " | " | |
| Cadmium | 0.362 | 0.200 | " | " | " | " | " | " | |
| Copper | 8.19 | 0.400 | " | " | " | " | " | " | |
| Lead | 11.4 | 0.200 | " | " | " | " | " | " | |
| Nickel | 9.95 | 0.400 | " | " | " | " | " | " | |
| Silver | 0.0610 | 0.0200 | " | " | " | " | " | " | |
| Zinc | 32.3 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/14/25 14:38**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BIB0041 | 02/03/25 | 02/05/25 | EPA 7196A | |

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

Date Sampled: **01/14/25 14:38**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 187 | 0.0500 | mg/L dry | 1 | BIB0366 | 02/07/25 | 02/15/25 | EPA 6020B | |
| Magnesium | 117 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 208 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **01/14/25 14:38**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 2.94 | 0.00100 | units | 1 | BIB0883 | 02/17/25 | 02/17/25 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/14/25 14:38**

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

Summit Scientific

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



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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

FL01-11@4'
2501179-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

| | | | | | | | |
|----------|------|---|---|---------|----------|----------|-------------|
| % Solids | 89.2 | % | 1 | BIA1444 | 01/30/25 | 01/31/25 | Calculation |
|----------|------|---|---|---------|----------|----------|-------------|

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/14/25 14:38**


| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.309 | 0.0100 | mmhos/cm | 1 | BIB0368 | 02/07/25 | 02/10/25 | EPA 120.1 | |

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

Date Sampled: **01/14/25 14:38**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.03 | | pH Units | 1 | BIB0367 | 02/07/25 | 02/10/25 | EPA 9045D | |

Summit Scientific



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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

FL01-12@4'
2501179-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/14/25 14:41**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BIA0933 | 01/20/25 | 01/26/25 | EPA 8260B | |
| Toluene | ND | 0.0050 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | | " | " | " | " | " | " | |

Date Sampled: **01/14/25 14:41**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0429 | 107 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0405 | 101 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0414 | 104 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/14/25 14:41**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BIA0934 | 01/20/25 | 01/22/25 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **01/14/25 14:41**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | 12.2 | 97.8 % | | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

FL01-12@4'
2501179-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/14/25 14:41**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BIA0997 | 01/22/25 | 01/30/25 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **01/14/25 14:41**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0203 | 61.0 % | 40-140 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0187 | 56.1 % | 40-140 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/14/25 14:41**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BIB1185 | 02/20/25 | 03/05/25 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **01/14/25 14:41**

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

Summit Scientific

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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

FL01-12@4'
2501179-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method |
|----------|--------|--------|-----------|----------|---------|----------|----------|-----------|
| Arsenic | 6.21 | 0.200 | mg/kg dry | 1 | BIA1508 | 01/31/25 | 02/12/25 | EPA 6020B |
| Barium | 217 | 0.400 | " | " | " | " | " | " |
| Cadmium | 0.359 | 0.200 | " | " | " | " | " | " |
| Copper | 8.42 | 0.400 | " | " | " | " | " | " |
| Lead | 11.7 | 0.200 | " | " | " | " | " | " |
| Nickel | 9.64 | 0.400 | " | " | " | " | " | " |
| Silver | 0.0690 | 0.0200 | " | " | " | " | " | " |
| Zinc | 32.0 | 0.400 | " | " | " | " | " | " |
| Selenium | ND | 0.260 | " | " | " | " | " | " |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/14/25 14:41**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BIB0041 | 02/03/25 | 02/05/25 | EPA 7196A | |

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

Date Sampled: **01/14/25 14:41**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 194 | 0.0500 | mg/L dry | 1 | BIB0366 | 02/07/25 | 02/15/25 | EPA 6020B | |
| Magnesium | 113 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 212 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **01/14/25 14:41**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 2.99 | 0.00100 | units | 1 | BIB0883 | 02/17/25 | 02/17/25 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/14/25 14:41**

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

Summit Scientific

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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

FL01-12@4'
2501179-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

| | | | | | | | |
|-----------------|-------------|---|---|---------|----------|----------|-------------|
| % Solids | 88.1 | % | 1 | BIA1444 | 01/30/25 | 01/31/25 | Calculation |
|-----------------|-------------|---|---|---------|----------|----------|-------------|

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/14/25 14:41**


| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.306 | 0.0100 | mmhos/cm | 1 | BIB0368 | 02/07/25 | 02/10/25 | EPA 120.1 | |

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

Date Sampled: **01/14/25 14:41**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 7.96 | | pH Units | 1 | BIB0367 | 02/07/25 | 02/10/25 | EPA 9045D | |

Summit Scientific



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

Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

BKG03@0-6''
2501179-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/14/25 15:06**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Boron | ND | 2.00 | mg/L | 1 | BIB1185 | 02/20/25 | 03/05/25 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **01/14/25 15:06**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 6.47 | 0.200 | mg/kg dry | 1 | BIA1508 | 01/31/25 | 02/12/25 | EPA 6020B | |
| Barium | 170 | 0.400 | " | " | " | " | " | " | |
| Cadmium | 0.421 | 0.200 | " | " | " | " | " | " | |
| Copper | 12.5 | 0.400 | " | " | " | " | " | " | |
| Lead | 11.4 | 0.200 | " | " | " | " | " | " | |
| Nickel | 9.14 | 0.400 | " | " | " | " | " | " | |
| Silver | 0.0649 | 0.0200 | " | " | " | " | " | " | |
| Zinc | 44.0 | 0.400 | " | " | " | " | " | " | |
| Selenium | 0.368 | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/14/25 15:06**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BIB0041 | 02/03/25 | 02/05/25 | EPA 7196A | |

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

Date Sampled: **01/14/25 15:06**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Calcium | 110 | 0.0500 | mg/L dry | 1 | BIB0366 | 02/07/25 | 02/15/25 | EPA 6020B | |
| Magnesium | 49.3 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 123 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Summit Scientific

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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

**BKG03@0-6''
2501179-06 (Soil)**

Summit Scientific

Calculated Analysis

Date Sampled: **01/14/25 15:06**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 2.45 | 0.00100 | units | 1 | BIB0883 | 02/17/25 | 02/17/25 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/14/25 15:06**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 93.0 | | % | 1 | BIA1444 | 01/30/25 | 01/31/25 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/14/25 15:06**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 2.10 | 0.0100 | mmhos/cm | 1 | BIB0368 | 02/07/25 | 02/10/25 | EPA 120.1 | |

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

Date Sampled: **01/14/25 15:06**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 7.83 | | pH Units | 1 | BIB0367 | 02/07/25 | 02/10/25 | EPA 9045D | |

Summit Scientific

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

Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

BKG03@2'
2501179-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/14/25 15:09**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Boron | ND | 2.00 | mg/L | 1 | BIB1185 | 02/20/25 | 03/05/25 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **01/14/25 15:09**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 5.76 | 0.200 | mg/kg dry | 1 | BIA1508 | 01/31/25 | 02/12/25 | EPA 6020B | |
| Barium | 146 | 0.400 | " | " | " | " | " | " | |
| Cadmium | 0.383 | 0.200 | " | " | " | " | " | " | |
| Copper | 7.74 | 0.400 | " | " | " | " | " | " | |
| Lead | 11.2 | 0.200 | " | " | " | " | " | " | |
| Nickel | 9.83 | 0.400 | " | " | " | " | " | " | |
| Silver | 0.0536 | 0.0200 | " | " | " | " | " | " | |
| Zinc | 30.8 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/14/25 15:09**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BIB0041 | 02/03/25 | 02/05/25 | EPA 7196A | |

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

Date Sampled: **01/14/25 15:09**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Calcium | 64.6 | 0.0500 | mg/L dry | 1 | BIB0366 | 02/07/25 | 02/15/25 | EPA 6020B | |
| Magnesium | 27.1 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 58.5 | 0.0500 | " | " | " | " | " | " | |

Summit Scientific

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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

BKG03@2'
2501179-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/14/25 15:09**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.54 | 0.00100 | units | 1 | BIB0883 | 02/17/25 | 02/17/25 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/14/25 15:09**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 91.7 | | % | 1 | BIA1444 | 01/30/25 | 01/31/25 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/14/25 15:09**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.115 | 0.0100 | mmhos/cm | 1 | BIB0368 | 02/07/25 | 02/10/25 | EPA 120.1 | |

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

Date Sampled: **01/14/25 15:09**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.15 | | pH Units | 1 | BIB0367 | 02/07/25 | 02/10/25 | EPA 9045D | |

Summit Scientific

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

Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

BKG03@3'
2501179-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/14/25 15:10**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Boron | ND | 2.00 | mg/L | 1 | BIB1185 | 02/20/25 | 03/05/25 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **01/14/25 15:10**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 5.72 | 0.200 | mg/kg dry | 1 | BIA1508 | 01/31/25 | 02/12/25 | EPA 6020B | |
| Barium | 231 | 0.400 | " | " | " | " | " | " | |
| Cadmium | 0.402 | 0.200 | " | " | " | " | " | " | |
| Copper | 7.49 | 0.400 | " | " | " | " | " | " | |
| Lead | 11.2 | 0.200 | " | " | " | " | " | " | |
| Nickel | 9.15 | 0.400 | " | " | " | " | " | " | |
| Silver | 0.0548 | 0.0200 | " | " | " | " | " | " | |
| Zinc | 29.3 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/14/25 15:10**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BIB0041 | 02/03/25 | 02/05/25 | EPA 7196A | |

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

Date Sampled: **01/14/25 15:10**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Calcium | 31.2 | 0.0500 | mg/L dry | 1 | BIB0366 | 02/07/25 | 02/15/25 | EPA 6020B | |
| Magnesium | 14.2 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 49.5 | 0.0500 | " | " | " | " | " | " | |

Summit Scientific

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



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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

BKG03@3'
2501179-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/14/25 15:10**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|-------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.84 | 0.00100 | units | 1 | BIB0883 | 02/17/25 | 02/17/25 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/14/25 15:10**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|-------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 92.6 | | % | 1 | BIA1444 | 01/30/25 | 01/31/25 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/14/25 15:10**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.650 | 0.0100 | mmhos/cm | 1 | BIB0368 | 02/07/25 | 02/10/25 | EPA 120.1 | |

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

Date Sampled: **01/14/25 15:10**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.44 | | pH Units | 1 | BIB0367 | 02/07/25 | 02/10/25 | EPA 9045D | |

Summit Scientific

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

Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

BKG03@4'
2501179-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/14/25 15:12**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Boron | ND | 2.00 | mg/L | 1 | BIB1186 | 02/20/25 | 03/05/25 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **01/14/25 15:12**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 5.76 | 0.200 | mg/kg dry | 1 | BIA1508 | 01/31/25 | 02/12/25 | EPA 6020B | |
| Barium | 191 | 0.400 | " | " | " | " | " | " | |
| Cadmium | 0.393 | 0.200 | " | " | " | " | " | " | |
| Copper | 8.21 | 0.400 | " | " | " | " | " | " | |
| Lead | 12.0 | 0.200 | " | " | " | " | " | " | |
| Nickel | 9.43 | 0.400 | " | " | " | " | " | " | |
| Silver | 0.0592 | 0.0200 | " | " | " | " | " | " | |
| Zinc | 33.7 | 0.400 | " | " | " | " | " | " | |
| Selenium | 0.400 | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/14/25 15:12**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BIB0041 | 02/03/25 | 02/05/25 | EPA 7196A | |

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

Date Sampled: **01/14/25 15:12**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Calcium | 11.9 | 0.0500 | mg/L dry | 1 | BIB0366 | 02/07/25 | 02/15/25 | EPA 6020B | |
| Magnesium | 16.2 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 51.0 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Summit Scientific

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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

BKG03@4'
2501179-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/14/25 15:12**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 2.26 | 0.00100 | units | 1 | BIB0883 | 02/17/25 | 02/17/25 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/14/25 15:12**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 92.1 | | % | 1 | BIA1444 | 01/30/25 | 01/31/25 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/14/25 15:12**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.552 | 0.0100 | mmhos/cm | 1 | BIB0368 | 02/07/25 | 02/10/25 | EPA 120.1 | |

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

Date Sampled: **01/14/25 15:12**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.69 | | pH Units | 1 | BIB0367 | 02/07/25 | 02/10/25 | EPA 9045D | |

Summit Scientific

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



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

Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

BKG03@6'
2501179-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/14/25 15:33**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Boron | ND | 2.00 | mg/L | 1 | BIB1186 | 02/20/25 | 03/05/25 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **01/14/25 15:33**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|---------------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 5.81 | 0.200 | mg/kg dry | 1 | BIA1508 | 01/31/25 | 02/12/25 | EPA 6020B | |
| Barium | 141 | 0.400 | " | " | " | " | " | " | |
| Cadmium | 0.299 | 0.200 | " | " | " | " | " | " | |
| Copper | 6.89 | 0.400 | " | " | " | " | " | " | |
| Lead | 11.1 | 0.200 | " | " | " | " | " | " | |
| Nickel | 8.07 | 0.400 | " | " | " | " | " | " | |
| Silver | 0.0476 | 0.0200 | " | " | " | " | " | " | |
| Zinc | 28.9 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/14/25 15:33**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BIB0041 | 02/03/25 | 02/05/25 | EPA 7196A | |

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

Date Sampled: **01/14/25 15:33**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Calcium | 11.0 | 0.0500 | mg/L dry | 1 | BIB0366 | 02/07/25 | 02/15/25 | EPA 6020B | |
| Magnesium | 15.1 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 63.1 | 0.0500 | " | " | " | " | " | " | |

Summit Scientific

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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

BKG03@6'
2501179-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/14/25 15:33**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|-------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 2.90 | 0.00100 | units | 1 | BIB0883 | 02/17/25 | 02/17/25 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/14/25 15:33**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|-------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 91.4 | | % | 1 | BIA1444 | 01/30/25 | 01/31/25 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/14/25 15:33**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.615 | 0.0100 | mmhos/cm | 1 | BIB0368 | 02/07/25 | 02/10/25 | EPA 120.1 | |

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

Date Sampled: **01/14/25 15:33**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.84 | | pH Units | 1 | BIB0367 | 02/07/25 | 02/10/25 | EPA 9045D | |

Summit Scientific

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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

**BKG04@0-6''
2501179-11 (Soil)**

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/14/25 15:15**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Boron | ND | 2.00 | mg/L | 1 | BIB1186 | 02/20/25 | 03/05/25 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **01/14/25 15:15**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 7.07 | 0.200 | mg/kg dry | 1 | BIA1508 | 01/31/25 | 02/12/25 | EPA 6020B | |
| Barium | 178 | 0.400 | " | " | " | " | " | " | |
| Cadmium | 0.449 | 0.200 | " | " | " | " | " | " | |
| Copper | 9.65 | 0.400 | " | " | " | " | " | " | |
| Lead | 12.3 | 0.200 | " | " | " | " | " | " | |
| Nickel | 9.59 | 0.400 | " | " | " | " | " | " | |
| Silver | 0.0739 | 0.0200 | " | " | " | " | " | " | |
| Zinc | 38.4 | 0.400 | " | " | " | " | " | " | |
| Selenium | 0.412 | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/14/25 15:15**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BIB0041 | 02/03/25 | 02/05/25 | EPA 7196A | |

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

Date Sampled: **01/14/25 15:15**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Calcium | 80.5 | 0.0500 | mg/L dry | 1 | BIB0366 | 02/07/25 | 02/15/25 | EPA 6020B | |
| Magnesium | 24.0 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 54.5 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Summit Scientific

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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

BKG04@0-6''
2501179-11 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/14/25 15:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.37 | 0.00100 | units | 1 | BIB0883 | 02/17/25 | 02/17/25 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/14/25 15:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 86.5 | | % | 1 | BIA1444 | 01/30/25 | 01/31/25 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/14/25 15:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 1.04 | 0.0100 | mmhos/cm | 1 | BIB0368 | 02/07/25 | 02/10/25 | EPA 120.1 | |

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

Date Sampled: **01/14/25 15:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.15 | | pH Units | 1 | BIB0367 | 02/07/25 | 02/10/25 | EPA 9045D | |

Summit Scientific

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

Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

BKG04@2'
2501179-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/14/25 15:17**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Boron | ND | 2.00 | | mg/L | 1 | BIB1186 | 02/20/25 | 03/05/25 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **01/14/25 15:17**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|---------------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Arsenic | 5.48 | 0.200 | | mg/kg dry | 1 | BIA1508 | 01/31/25 | 02/12/25 | EPA 6020B | |
| Barium | 151 | 0.400 | | " | " | " | " | " | " | |
| Cadmium | 0.356 | 0.200 | | " | " | " | " | " | " | |
| Copper | 7.46 | 0.400 | | " | " | " | " | " | " | |
| Lead | 10.2 | 0.200 | | " | " | " | " | " | " | |
| Nickel | 9.12 | 0.400 | | " | " | " | " | " | " | |
| Silver | 0.0520 | 0.0200 | | " | " | " | " | " | " | |
| Zinc | 28.5 | 0.400 | | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/14/25 15:17**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | | mg/kg dry | 1 | BIB0041 | 02/03/25 | 02/05/25 | EPA 7196A | |

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

Date Sampled: **01/14/25 15:17**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Calcium | 99.4 | 0.0500 | | mg/L dry | 1 | BIB0366 | 02/07/25 | 02/15/25 | EPA 6020B | |
| Magnesium | 36.9 | 0.0500 | | " | " | " | " | " | " | |
| Sodium | 60.0 | 0.0500 | | " | " | " | " | " | " | |

Summit Scientific

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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

BKG04@2'
2501179-12 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/14/25 15:17**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.31 | 0.00100 | units | 1 | BIB0883 | 02/17/25 | 02/17/25 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/14/25 15:17**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 89.1 | | % | 1 | BIA1506 | 01/31/25 | 02/05/25 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/14/25 15:17**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 1.42 | 0.0100 | mmhos/cm | 1 | BIB0368 | 02/07/25 | 02/10/25 | EPA 120.1 | |

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

Date Sampled: **01/14/25 15:17**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.05 | | pH Units | 1 | BIB0367 | 02/07/25 | 02/10/25 | EPA 9045D | |

Summit Scientific

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

Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

BKG04@3'
2501179-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/14/25 15:20**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Boron | ND | 2.00 | mg/L | 1 | BIB1186 | 02/20/25 | 03/05/25 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **01/14/25 15:20**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|---------------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 6.50 | 0.200 | mg/kg dry | 1 | BIA1508 | 01/31/25 | 02/12/25 | EPA 6020B | |
| Barium | 127 | 0.400 | " | " | " | " | " | " | |
| Cadmium | 0.365 | 0.200 | " | " | " | " | " | " | |
| Copper | 7.61 | 0.400 | " | " | " | " | " | " | |
| Lead | 11.5 | 0.200 | " | " | " | " | " | " | |
| Nickel | 9.22 | 0.400 | " | " | " | " | " | " | |
| Silver | 0.0638 | 0.0200 | " | " | " | " | " | " | |
| Zinc | 29.5 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/14/25 15:20**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BIB0041 | 02/03/25 | 02/05/25 | EPA 7196A | |

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

Date Sampled: **01/14/25 15:20**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Calcium | 83.5 | 0.0500 | mg/L dry | 1 | BIB0366 | 02/07/25 | 02/15/25 | EPA 6020B | |
| Magnesium | 32.3 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 73.0 | 0.0500 | " | " | " | " | " | " | |

Summit Scientific

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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

BKG04@3'
2501179-13 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/14/25 15:20**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.72 | 0.00100 | units | 1 | BIB0883 | 02/17/25 | 02/17/25 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/14/25 15:20**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 87.5 | | % | 1 | BIA1506 | 01/31/25 | 02/05/25 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/14/25 15:20**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 1.34 | 0.0100 | mmhos/cm | 1 | BIB0368 | 02/07/25 | 02/10/25 | EPA 120.1 | |

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

Date Sampled: **01/14/25 15:20**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.15 | | pH Units | 1 | BIB0367 | 02/07/25 | 02/10/25 | EPA 9045D | |

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

Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

BKG04@4'
2501179-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/14/25 15:22**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Boron | ND | 2.00 | mg/L | 1 | BIB1186 | 02/20/25 | 03/05/25 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **01/14/25 15:22**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|---------------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 5.86 | 0.200 | mg/kg dry | 1 | BIA1508 | 01/31/25 | 02/12/25 | EPA 6020B | |
| Barium | 237 | 0.400 | " | " | " | " | " | " | |
| Cadmium | 0.376 | 0.200 | " | " | " | " | " | " | |
| Copper | 8.49 | 0.400 | " | " | " | " | " | " | |
| Lead | 11.9 | 0.200 | " | " | " | " | " | " | |
| Nickel | 9.51 | 0.400 | " | " | " | " | " | " | |
| Silver | 0.0608 | 0.0200 | " | " | " | " | " | " | |
| Zinc | 31.6 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/14/25 15:22**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BIB0041 | 02/03/25 | 02/05/25 | EPA 7196A | |

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

Date Sampled: **01/14/25 15:22**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Calcium | 34.4 | 0.0500 | mg/L dry | 1 | BIB0366 | 02/07/25 | 02/15/25 | EPA 6020B | |
| Magnesium | 35.1 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 95.5 | 0.0500 | " | " | " | " | " | " | |

Summit Scientific

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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

BKG04@4'
2501179-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/14/25 15:22**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 2.74 | 0.00100 | units | 1 | BIB0883 | 02/17/25 | 02/17/25 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/14/25 15:22**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 86.8 | | % | 1 | BIA1506 | 01/31/25 | 02/05/25 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/14/25 15:22**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 1.20 | 0.0100 | mmhos/cm | 1 | BIB0368 | 02/07/25 | 02/10/25 | EPA 120.1 | |

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

Date Sampled: **01/14/25 15:22**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.35 | | pH Units | 1 | BIB0367 | 02/07/25 | 02/10/25 | EPA 9045D | |

Summit Scientific

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

Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

BKG04@6'
2501179-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/14/25 15:27**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Boron | ND | 2.00 | mg/L | 1 | BIB1186 | 02/20/25 | 03/05/25 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **01/14/25 15:27**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|---------------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 5.51 | 0.200 | mg/kg dry | 1 | BIA1508 | 01/31/25 | 02/12/25 | EPA 6020B | |
| Barium | 142 | 0.400 | " | " | " | " | " | " | |
| Cadmium | 0.314 | 0.200 | " | " | " | " | " | " | |
| Copper | 7.29 | 0.400 | " | " | " | " | " | " | |
| Lead | 10.2 | 0.200 | " | " | " | " | " | " | |
| Nickel | 9.09 | 0.400 | " | " | " | " | " | " | |
| Silver | 0.0515 | 0.0200 | " | " | " | " | " | " | |
| Zinc | 29.2 | 0.400 | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/14/25 15:27**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BIB0041 | 02/03/25 | 02/05/25 | EPA 7196A | |

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

Date Sampled: **01/14/25 15:27**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Calcium | 29.1 | 0.0500 | mg/L dry | 1 | BIB0366 | 02/07/25 | 02/15/25 | EPA 6020B | |
| Magnesium | 43.7 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 123 | 0.0500 | " | " | " | " | " | " | |

Summit Scientific

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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

BKG04@6'
2501179-15 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/14/25 15:27**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 3.37 | 0.00100 | units | 1 | BIB0883 | 02/17/25 | 02/17/25 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/14/25 15:27**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 89.9 | | % | 1 | BIA1506 | 01/31/25 | 02/05/25 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/14/25 15:27**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 1.41 | 0.0100 | mmhos/cm | 1 | BIB0368 | 02/07/25 | 02/10/25 | EPA 120.1 | |

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

Date Sampled: **01/14/25 15:27**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.41 | | pH Units | 1 | BIB0367 | 02/07/25 | 02/10/25 | EPA 9045D | |

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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BIA0933 - EPA 5030 Soil MS

Blank (BIA0933-BLK1)

Prepared: 01/20/25 Analyzed: 01/26/25

| | | | | | | | | | | |
|---|--------|--------|-------|--------|--|-----|--------|--|--|--|
| Benzene | ND | 0.0020 | mg/kg | | | | | | | |
| Toluene | ND | 0.0050 | " | | | | | | | |
| Ethylbenzene | ND | 0.0050 | " | | | | | | | |
| Xylenes (total) | ND | 0.010 | " | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | | | | | | | |
| Naphthalene | ND | 0.0038 | " | | | | | | | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | | | | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0439 | | " | 0.0400 | | 110 | 50-150 | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0401 | | " | 0.0400 | | 100 | 50-150 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0410 | | " | 0.0400 | | 103 | 50-150 | | | |

LCS (BIA0933-BS1)

Prepared: 01/20/25 Analyzed: 01/26/25

| | | | | | | | | | | |
|---|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | 0.0981 | 0.0020 | mg/kg | 0.100 | | 98.1 | 70-130 | | | |
| Toluene | 0.0962 | 0.0050 | " | 0.100 | | 96.2 | 70-130 | | | |
| Ethylbenzene | 0.0981 | 0.0050 | " | 0.100 | | 98.1 | 70-130 | | | |
| m,p-Xylene | 0.195 | 0.010 | " | 0.200 | | 97.7 | 70-130 | | | |
| o-Xylene | 0.0968 | 0.0050 | " | 0.100 | | 96.8 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.0976 | 0.0050 | " | 0.100 | | 97.6 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0982 | 0.0050 | " | 0.100 | | 98.2 | 70-130 | | | |
| Naphthalene | 0.108 | 0.0038 | " | 0.100 | | 108 | 70-130 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0440 | | " | 0.0400 | | 110 | 50-150 | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0400 | | " | 0.0400 | | 100 | 50-150 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0415 | | " | 0.0400 | | 104 | 50-150 | | | |

Matrix Spike (BIA0933-MS1)

Source: 2501152-01

Prepared: 01/20/25 Analyzed: 01/26/25

| | | | | | | | | | | |
|---|--------|--------|-------|--------|----|-----|--------|--|--|--|
| Benzene | 0.106 | 0.0020 | mg/kg | 0.100 | ND | 106 | 70-130 | | | |
| Toluene | 0.105 | 0.0050 | " | 0.100 | ND | 105 | 70-130 | | | |
| Ethylbenzene | 0.104 | 0.0050 | " | 0.100 | ND | 104 | 70-130 | | | |
| m,p-Xylene | 0.205 | 0.010 | " | 0.200 | ND | 103 | 70-130 | | | |
| o-Xylene | 0.102 | 0.0050 | " | 0.100 | ND | 102 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.104 | 0.0050 | " | 0.100 | ND | 104 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.103 | 0.0050 | " | 0.100 | ND | 103 | 70-130 | | | |
| Naphthalene | 0.108 | 0.0038 | " | 0.100 | ND | 108 | 70-130 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0438 | | " | 0.0400 | | 109 | 50-150 | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0406 | | " | 0.0400 | | 101 | 50-150 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0412 | | " | 0.0400 | | 103 | 50-150 | | | |

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

Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BIA0933 - EPA 5030 Soil MS

| Matrix Spike Dup (BIA0933-MSD1) | Source: 2501152-01 | | | Prepared: 01/20/25 Analyzed: 01/26/25 | | | | | | |
|---|---------------------------|--------|----------|---------------------------------------|----|-------------|---------------|------|----|--|
| Benzene | 0.109 | 0.0020 | mg/kg | 0.100 | ND | 109 | 70-130 | 3.26 | 30 | |
| Toluene | 0.107 | 0.0050 | " | 0.100 | ND | 107 | 70-130 | 1.82 | 30 | |
| Ethylbenzene | 0.110 | 0.0050 | " | 0.100 | ND | 110 | 70-130 | 5.76 | 30 | |
| m,p-Xylene | 0.217 | 0.010 | " | 0.200 | ND | 109 | 70-130 | 5.65 | 30 | |
| o-Xylene | 0.106 | 0.0050 | " | 0.100 | ND | 106 | 70-130 | 4.35 | 30 | |
| 1,2,4-Trimethylbenzene | 0.105 | 0.0050 | " | 0.100 | ND | 105 | 70-130 | 1.37 | 30 | |
| 1,3,5-Trimethylbenzene | 0.106 | 0.0050 | " | 0.100 | ND | 106 | 70-130 | 2.84 | 30 | |
| Naphthalene | 0.0994 | 0.0038 | " | 0.100 | ND | 99.4 | 70-130 | 8.41 | 30 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0396</i> | | <i>"</i> | <i>0.0400</i> | | <i>99.1</i> | <i>50-150</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>0.0397</i> | | <i>"</i> | <i>0.0400</i> | | <i>99.2</i> | <i>50-150</i> | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>0.0404</i> | | <i>"</i> | <i>0.0400</i> | | <i>101</i> | <i>50-150</i> | | | |

Summit Scientific

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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BIA0934 - EPA 3550A

Blank (BIA0934-BLK1)

Prepared: 01/20/25 Analyzed: 01/22/25

| | | | | | | | | | | |
|--------------------------------|------|----|-------|------|--|------|--------|--|--|--|
| C10-C28 (DRO) | ND | 50 | mg/kg | | | | | | | |
| C28-C36 (ORO) | ND | 50 | " | | | | | | | |
| Surrogate: <i>o</i> -Terphenyl | 19.9 | | " | 25.0 | | 79.7 | 30-150 | | | |

LCS (BIA0934-BS1)

Prepared: 01/20/25 Analyzed: 01/22/25

| | | | | | | | | | | |
|--------------------------------|------|----|-------|------|--|------|--------|--|--|--|
| C10-C28 (DRO) | 555 | 50 | mg/kg | 500 | | 111 | 70-130 | | | |
| Surrogate: <i>o</i> -Terphenyl | 23.6 | | " | 25.0 | | 94.2 | 30-150 | | | |

Matrix Spike (BIA0934-MS1)

Source: 2501152-01

Prepared: 01/20/25 Analyzed: 01/22/25

| | | | | | | | | | | |
|--------------------------------|------|----|-------|------|----|-----|--------|--|--|--|
| C10-C28 (DRO) | 549 | 50 | mg/kg | 500 | ND | 110 | 70-130 | | | |
| Surrogate: <i>o</i> -Terphenyl | 18.7 | | " | 12.5 | | 150 | 30-150 | | | |

Matrix Spike Dup (BIA0934-MSD1)

Source: 2501152-01

Prepared: 01/20/25 Analyzed: 01/22/25

| | | | | | | | | | | |
|--------------------------------|------|----|-------|------|----|------|--------|------|----|--|
| C10-C28 (DRO) | 487 | 50 | mg/kg | 500 | ND | 97.3 | 70-130 | 12.0 | 20 | |
| Surrogate: <i>o</i> -Terphenyl | 18.4 | | " | 12.5 | | 148 | 30-150 | | | |

Summit Scientific

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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BIA0997 - EPA 5030 Soil MS

Blank (BIA0997-BLK1)

Prepared: 01/22/25 Analyzed: 01/29/25

| | | | | | | | | | | |
|---|---------------|---------|-------|---------------|--|-------------|---------------|--|--|--|
| Acenaphthene | ND | 0.00500 | mg/kg | | | | | | | |
| Anthracene | ND | 0.00500 | " | | | | | | | |
| Benzo (a) anthracene | ND | 0.00500 | " | | | | | | | |
| Benzo (a) pyrene | ND | 0.00500 | " | | | | | | | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | | | | | | | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | | | | | | | |
| Chrysene | ND | 0.00500 | " | | | | | | | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | | | | | | | |
| Fluoranthene | ND | 0.00500 | " | | | | | | | |
| Fluorene | ND | 0.00500 | " | | | | | | | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | | | | | | | |
| Pyrene | ND | 0.00500 | " | | | | | | | |
| 1-Methylnaphthalene | ND | 0.00500 | " | | | | | | | |
| 2-Methylnaphthalene | ND | 0.00500 | " | | | | | | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0187</i> | | " | <i>0.0333</i> | | <i>56.1</i> | <i>40-140</i> | | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0182</i> | | " | <i>0.0333</i> | | <i>54.7</i> | <i>40-140</i> | | | |

LCS (BIA0997-BS1)

Prepared: 01/22/25 Analyzed: 01/29/25

| | | | | | | | | | | |
|---|---------------|---------|-------|---------------|--|-------------|---------------|--|--|--|
| Acenaphthene | 0.0255 | 0.00500 | mg/kg | 0.0333 | | 76.6 | 40-140 | | | |
| Anthracene | 0.0256 | 0.00500 | " | 0.0333 | | 76.7 | 40-140 | | | |
| Benzo (a) anthracene | 0.0268 | 0.00500 | " | 0.0333 | | 80.5 | 40-140 | | | |
| Benzo (a) pyrene | 0.0253 | 0.00500 | " | 0.0333 | | 75.8 | 40-140 | | | |
| Benzo (b) fluoranthene | 0.0253 | 0.00500 | " | 0.0333 | | 75.9 | 40-140 | | | |
| Benzo (k) fluoranthene | 0.0253 | 0.00500 | " | 0.0333 | | 76.0 | 40-140 | | | |
| Chrysene | 0.0262 | 0.00500 | " | 0.0333 | | 78.5 | 40-140 | | | |
| Dibenz (a,h) anthracene | 0.0252 | 0.00500 | " | 0.0333 | | 75.6 | 40-140 | | | |
| Fluoranthene | 0.0253 | 0.00500 | " | 0.0333 | | 75.9 | 40-140 | | | |
| Fluorene | 0.0252 | 0.00500 | " | 0.0333 | | 75.7 | 40-140 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0257 | 0.00500 | " | 0.0333 | | 77.1 | 40-140 | | | |
| Pyrene | 0.0273 | 0.00500 | " | 0.0333 | | 81.8 | 40-140 | | | |
| 1-Methylnaphthalene | 0.0250 | 0.00500 | " | 0.0333 | | 74.9 | 40-140 | | | |
| 2-Methylnaphthalene | 0.0252 | 0.00500 | " | 0.0333 | | 75.8 | 40-140 | | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0252</i> | | " | <i>0.0333</i> | | <i>75.5</i> | <i>40-140</i> | | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0250</i> | | " | <i>0.0333</i> | | <i>74.9</i> | <i>40-140</i> | | | |

Summit Scientific

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



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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

PAH by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch BIA0997 - EPA 5030 Soil MS

| Matrix Spike (BIA0997-MS1) | Source: 2501164-08 | | | Prepared: 01/22/25 Analyzed: 01/29/25 | | | | | | |
|---|---------------------------|---------|----------|--|----|-------------|---------------|--|--|--|
| Acenaphthene | 0.0252 | 0.00500 | mg/kg | 0.0333 | ND | 75.7 | 40-140 | | | |
| Anthracene | 0.0241 | 0.00500 | " | 0.0333 | ND | 72.3 | 40-140 | | | |
| Benzo (a) anthracene | 0.0258 | 0.00500 | " | 0.0333 | ND | 77.4 | 40-140 | | | |
| Benzo (a) pyrene | 0.0240 | 0.00500 | " | 0.0333 | ND | 72.0 | 40-140 | | | |
| Benzo (b) fluoranthene | 0.0240 | 0.00500 | " | 0.0333 | ND | 71.9 | 40-140 | | | |
| Benzo (k) fluoranthene | 0.0238 | 0.00500 | " | 0.0333 | ND | 71.5 | 40-140 | | | |
| Chrysene | 0.0248 | 0.00500 | " | 0.0333 | ND | 74.4 | 40-140 | | | |
| Dibenz (a,h) anthracene | 0.0244 | 0.00500 | " | 0.0333 | ND | 73.2 | 40-140 | | | |
| Fluoranthene | 0.0254 | 0.00500 | " | 0.0333 | ND | 76.1 | 40-140 | | | |
| Fluorene | 0.0248 | 0.00500 | " | 0.0333 | ND | 74.4 | 40-140 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0179 | 0.00500 | " | 0.0333 | ND | 53.8 | 40-140 | | | |
| Pyrene | 0.0244 | 0.00500 | " | 0.0333 | ND | 73.1 | 40-140 | | | |
| 1-Methylnaphthalene | 0.0240 | 0.00500 | " | 0.0333 | ND | 72.0 | 40-140 | | | |
| 2-Methylnaphthalene | 0.0240 | 0.00500 | " | 0.0333 | ND | 71.9 | 40-140 | | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0238</i> | | <i>"</i> | <i>0.0333</i> | | <i>71.5</i> | <i>40-140</i> | | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0254</i> | | <i>"</i> | <i>0.0333</i> | | <i>76.1</i> | <i>40-140</i> | | | |

| Matrix Spike Dup (BIA0997-MSD1) | Source: 2501164-08 | | | Prepared: 01/22/25 Analyzed: 01/29/25 | | | | | | |
|---|---------------------------|---------|----------|--|----|-------------|---------------|------|----|--|
| Acenaphthene | 0.0230 | 0.00500 | mg/kg | 0.0333 | ND | 69.1 | 40-140 | 9.07 | 30 | |
| Anthracene | 0.0229 | 0.00500 | " | 0.0333 | ND | 68.6 | 40-140 | 5.36 | 30 | |
| Benzo (a) anthracene | 0.0243 | 0.00500 | " | 0.0333 | ND | 73.0 | 40-140 | 5.73 | 30 | |
| Benzo (a) pyrene | 0.0229 | 0.00500 | " | 0.0333 | ND | 68.8 | 40-140 | 4.45 | 30 | |
| Benzo (b) fluoranthene | 0.0229 | 0.00500 | " | 0.0333 | ND | 68.7 | 40-140 | 4.49 | 30 | |
| Benzo (k) fluoranthene | 0.0227 | 0.00500 | " | 0.0333 | ND | 68.1 | 40-140 | 4.83 | 30 | |
| Chrysene | 0.0231 | 0.00500 | " | 0.0333 | ND | 69.4 | 40-140 | 6.93 | 30 | |
| Dibenz (a,h) anthracene | 0.0231 | 0.00500 | " | 0.0333 | ND | 69.3 | 40-140 | 5.50 | 30 | |
| Fluoranthene | 0.0241 | 0.00500 | " | 0.0333 | ND | 72.2 | 40-140 | 5.24 | 30 | |
| Fluorene | 0.0233 | 0.00500 | " | 0.0333 | ND | 69.8 | 40-140 | 6.30 | 30 | |
| Indeno (1,2,3-cd) pyrene | 0.0173 | 0.00500 | " | 0.0333 | ND | 52.0 | 40-140 | 3.34 | 30 | |
| Pyrene | 0.0232 | 0.00500 | " | 0.0333 | ND | 69.6 | 40-140 | 4.85 | 30 | |
| 1-Methylnaphthalene | 0.0229 | 0.00500 | " | 0.0333 | ND | 68.7 | 40-140 | 4.67 | 30 | |
| 2-Methylnaphthalene | 0.0231 | 0.00500 | " | 0.0333 | ND | 69.2 | 40-140 | 3.73 | 30 | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0228</i> | | <i>"</i> | <i>0.0333</i> | | <i>68.4</i> | <i>40-140</i> | | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0236</i> | | <i>"</i> | <i>0.0333</i> | | <i>70.9</i> | <i>40-140</i> | | | |

Summit Scientific

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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

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

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

Batch BIB1185 - EPA 3050B

| | | | | | | | | | | | |
|--|------|------|------|---------------------------------------|----|---------------------------------------|--------|------|--|----|--|
| Blank (BIB1185-BLK1) | | | | Prepared: 02/20/25 Analyzed: 03/05/25 | | | | | | | |
| Boron | ND | 2.00 | mg/L | | | | | | | | |
| LCS (BIB1185-BS1) | | | | Prepared: 02/20/25 Analyzed: 03/05/25 | | | | | | | |
| Boron | 4.62 | 2.00 | mg/L | 5.00 | | 92.4 | 80-120 | | | | |
| Duplicate (BIB1185-DUP1) | | | | Source: 2501164-17 | | Prepared: 02/20/25 Analyzed: 03/05/25 | | | | | |
| Boron | ND | 2.00 | mg/L | | ND | | | | | 20 | |
| Matrix Spike (BIB1185-MS1) | | | | Source: 2501164-17 | | Prepared: 02/20/25 Analyzed: 03/05/25 | | | | | |
| Boron | 4.55 | 2.00 | mg/L | 5.01 | ND | 90.9 | 75-125 | | | | |
| Matrix Spike Dup (BIB1185-MSD1) | | | | Source: 2501164-17 | | Prepared: 02/20/25 Analyzed: 03/05/25 | | | | | |
| Boron | 4.78 | 2.00 | mg/L | 5.01 | ND | 95.4 | 75-125 | 4.87 | | 25 | |

Batch BIB1186 - EPA 3050B

| | | | | | | | | | | | |
|-----------------------------------|-------|------|------|---------------------------------------|-------|---------------------------------------|--------|------|--|----|--|
| Blank (BIB1186-BLK1) | | | | Prepared: 02/20/25 Analyzed: 03/05/25 | | | | | | | |
| Boron | ND | 2.00 | mg/L | | | | | | | | |
| LCS (BIB1186-BS1) | | | | Prepared: 02/20/25 Analyzed: 03/05/25 | | | | | | | |
| Boron | 4.62 | 2.00 | mg/L | 5.00 | | 92.3 | 80-120 | | | | |
| Duplicate (BIB1186-DUP1) | | | | Source: 2501179-09 | | Prepared: 02/20/25 Analyzed: 03/05/25 | | | | | |
| Boron | 0.185 | 2.00 | mg/L | | 0.188 | | | 1.66 | | 20 | |
| Matrix Spike (BIB1186-MS1) | | | | Source: 2501179-09 | | Prepared: 02/20/25 Analyzed: 03/05/25 | | | | | |
| Boron | 4.86 | 2.00 | mg/L | 4.99 | 0.188 | 93.7 | 75-125 | | | | |

Summit Scientific

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

Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

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

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

Batch BIB1186 - EPA 3050B


Matrix Spike Dup (BIB1186-MSD1)

Source: 2501179-09

Prepared: 02/20/25 Analyzed: 03/05/25

| | | | | | | | | | | |
|-------|------|------|------|------|-------|-----|--------|------|----|--|
| Boron | 5.30 | 2.00 | mg/L | 4.99 | 0.188 | 103 | 75-125 | 8.64 | 25 | |
|-------|------|------|------|------|-------|-----|--------|------|----|--|

Summit Scientific



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

Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BIA1508 - EPA 3050B

Blank (BIA1508-BLK1)

Prepared: 01/31/25 Analyzed: 02/12/25

| | | | | | | | | | | |
|----------|----|--------|-----------|--|--|--|--|--|--|--|
| 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 (BIA1508-BS1)

Prepared: 01/31/25 Analyzed: 02/14/25

| | | | | | | |
|----------|------|--------|-----------|------|------|--------|
| Arsenic | 45.9 | 0.200 | mg/kg wet | 40.7 | 113 | 80-120 |
| Barium | 40.1 | 0.400 | " | 40.7 | 98.7 | 80-120 |
| Cadmium | 2.07 | 0.200 | " | 2.03 | 102 | 80-120 |
| Copper | 48.0 | 0.400 | " | 40.7 | 118 | 80-120 |
| Lead | 20.7 | 0.200 | " | 20.3 | 102 | 80-120 |
| Nickel | 47.3 | 0.400 | " | 40.7 | 116 | 80-120 |
| Silver | 2.05 | 0.0200 | " | 2.03 | 101 | 80-120 |
| Zinc | 46.9 | 0.400 | " | 40.7 | 115 | 80-120 |
| Selenium | 4.05 | 0.260 | " | 4.07 | 99.6 | 80-120 |

Duplicate (BIA1508-DUP1)

Source: 2501179-01

Prepared: 01/31/25 Analyzed: 02/12/25

| | | | | | | |
|----------|--------|--------|-----------|--------|-------|----|
| Arsenic | 11.9 | 0.200 | mg/kg dry | 9.70 | 19.9 | 20 |
| Barium | 54.0 | 0.400 | " | 60.0 | 10.6 | 20 |
| Cadmium | 0.166 | 0.200 | " | 0.171 | 3.01 | 20 |
| Copper | 3.41 | 0.400 | " | 3.71 | 8.34 | 20 |
| Lead | 7.83 | 0.200 | " | 7.89 | 0.784 | 20 |
| Nickel | 5.75 | 0.400 | " | 5.51 | 4.38 | 20 |
| Silver | 0.0219 | 0.0200 | " | 0.0252 | 14.0 | 20 |
| Zinc | 24.4 | 0.400 | " | 24.3 | 0.492 | 20 |
| Selenium | ND | 0.260 | " | ND | | 20 |

Summit Scientific

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

Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BIA1508 - EPA 3050B

| Matrix Spike (BIA1508-MS1) | Source: 2501179-01 | | | Prepared: 01/31/25 | | Analyzed: 02/14/25 | | | | | |
|-----------------------------------|---------------------------|--------|-----------|--------------------|--------|--------------------|--------|--|--|--|-------|
| Arsenic | 39.6 | 0.200 | mg/kg dry | 46.1 | 9.70 | 64.9 | 75-125 | | | | QM-05 |
| Barium | 85.8 | 0.400 | " | 46.1 | 60.0 | 55.9 | 75-125 | | | | QM-05 |
| Cadmium | 2.46 | 0.200 | " | 2.31 | 0.171 | 99.2 | 75-125 | | | | |
| Copper | 35.6 | 0.400 | " | 46.1 | 3.71 | 69.2 | 75-125 | | | | QM-05 |
| Lead | 29.9 | 0.200 | " | 23.1 | 7.89 | 95.5 | 75-125 | | | | |
| Nickel | 37.4 | 0.400 | " | 46.1 | 5.51 | 69.0 | 75-125 | | | | QM-05 |
| Silver | 2.27 | 0.0200 | " | 2.31 | 0.0252 | 97.5 | 75-125 | | | | |
| Zinc | 54.9 | 0.400 | " | 46.1 | 24.3 | 66.3 | 75-125 | | | | QM-05 |
| Selenium | 4.53 | 0.260 | " | 4.61 | ND | 98.1 | 75-125 | | | | |

| Matrix Spike Dup (BIA1508-MSD1) | Source: 2501179-01 | | | Prepared: 01/31/25 | | Analyzed: 02/14/25 | | | | | |
|--|---------------------------|--------|-----------|--------------------|--------|--------------------|--------|-------|----|--|-------|
| Arsenic | 39.3 | 0.200 | mg/kg dry | 45.0 | 9.70 | 65.8 | 75-125 | 0.790 | 25 | | QM-05 |
| Barium | 78.3 | 0.400 | " | 45.0 | 60.0 | 40.6 | 75-125 | 9.11 | 25 | | QM-05 |
| Cadmium | 2.52 | 0.200 | " | 2.25 | 0.171 | 104 | 75-125 | 2.26 | 25 | | |
| Copper | 34.7 | 0.400 | " | 45.0 | 3.71 | 68.9 | 75-125 | 2.66 | 25 | | QM-05 |
| Lead | 30.0 | 0.200 | " | 22.5 | 7.89 | 98.1 | 75-125 | 0.142 | 25 | | |
| Nickel | 36.5 | 0.400 | " | 45.0 | 5.51 | 68.9 | 75-125 | 2.23 | 25 | | QM-05 |
| Silver | 2.28 | 0.0200 | " | 2.25 | 0.0252 | 100 | 75-125 | 0.411 | 25 | | |
| Zinc | 52.1 | 0.400 | " | 45.0 | 24.3 | 61.8 | 75-125 | 5.18 | 25 | | QM-05 |
| Selenium | 4.63 | 0.260 | " | 4.50 | ND | 103 | 75-125 | 2.31 | 25 | | |

Summit Scientific

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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BIB0041 - 3060A Mod

| | | | | | | | | | | |
|--|------|------|-----------|------|----|-----|--------|------|----|--|
| Blank (BIB0041-BLK1) | | | | | | | | | | |
| Prepared: 02/03/25 Analyzed: 02/05/25 | | | | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg wet | | | | | | | |
| LCS (BIB0041-BS1) | | | | | | | | | | |
| Prepared: 02/03/25 Analyzed: 02/05/25 | | | | | | | | | | |
| Chromium, Hexavalent | 26.2 | 0.30 | mg/kg wet | 25.3 | | 104 | 80-120 | | | |
| Duplicate (BIB0041-DUP1) | | | | | | | | | | |
| Source: 2501179-01 Prepared: 02/03/25 Analyzed: 02/05/25 | | | | | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | | ND | | | | 20 | |
| Matrix Spike (BIB0041-MS1) | | | | | | | | | | |
| Source: 2501179-01 Prepared: 02/03/25 Analyzed: 02/05/25 | | | | | | | | | | |
| Chromium, Hexavalent | 27.7 | 0.30 | mg/kg dry | 27.1 | ND | 102 | 75-125 | | | |
| Matrix Spike Dup (BIB0041-MSD1) | | | | | | | | | | |
| Source: 2501179-01 Prepared: 02/03/25 Analyzed: 02/05/25 | | | | | | | | | | |
| Chromium, Hexavalent | 29.8 | 0.30 | mg/kg dry | 29.1 | ND | 103 | 75-125 | 7.23 | 20 | |

Summit Scientific

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

Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

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

Summit Scientific

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

Batch BIB0366 - General Preparation

Blank (BIB0366-BLK1)

Prepared: 02/07/25 Analyzed: 02/15/25

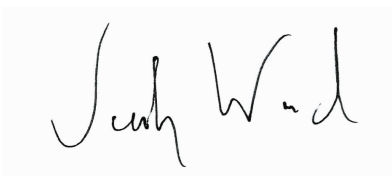
| | | | | | | | | | | |
|-----------|----|--------|----------|--|--|--|--|--|--|--|
| Calcium | ND | 0.0500 | mg/L wet | | | | | | | |
| Magnesium | ND | 0.0500 | " | | | | | | | |
| Sodium | ND | 0.0500 | " | | | | | | | |

LCS (BIB0366-BS1)

Prepared: 02/07/25 Analyzed: 02/15/25

| | | | | | | | | | | |
|-----------|------|--------|----------|------|--|-----|--------|--|--|--|
| Calcium | 5.28 | 0.0500 | mg/L wet | 5.00 | | 106 | 70-130 | | | |
| Magnesium | 5.28 | 0.0500 | " | 5.00 | | 106 | 70-130 | | | |
| Sodium | 5.37 | 0.0500 | " | 5.00 | | 107 | 70-130 | | | |

Summit Scientific



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



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

Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

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

Summit Scientific

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


Batch BIA1444 - General Preparation

| Duplicate (BIA1444-DUP1) | | Source: 2501162-31 | | Prepared: 01/30/25 Analyzed: 01/31/25 | |
|---------------------------------|------|---------------------------|---|---------------------------------------|----------|
| % Solids | 93.7 | | % | 93.1 | 0.619 20 |

Batch BIA1506 - General Preparation

| Duplicate (BIA1506-DUP1) | | Source: 2501179-12 | | Prepared: 01/31/25 Analyzed: 02/05/25 | |
|---------------------------------|------|---------------------------|---|---------------------------------------|---------|
| % Solids | 84.7 | | % | 89.1 | 5.05 20 |

Summit Scientific



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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

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

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

Batch BIB0368 - General Preparation

Blank (BIB0368-BLK1)

Prepared: 02/07/25 Analyzed: 02/10/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BIB0368-BS1)

Prepared: 02/07/25 Analyzed: 02/10/25

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

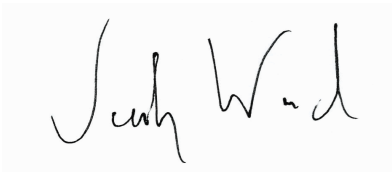
Duplicate (BIB0368-DUP1)

Source: 2501179-01

Prepared: 02/07/25 Analyzed: 02/10/25

Specific Conductance (EC) 0.335 0.0100 mmhos/cm 0.337 0.685 20

Summit Scientific



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



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

Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4271-ABN
Project Manager: Daniel Simpson

Reported:
03/10/25 12:58

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

Summit Scientific

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

Batch BIB0367 - General Preparation

LCS (BIB0367-BS1)

Prepared: 02/07/25 Analyzed: 02/10/25

pH 9.12 pH Units 9.18 99.3 95-105

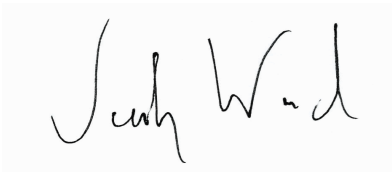
Duplicate (BIB0367-DUP1)

Source: 2501179-01

Prepared: 02/07/25 Analyzed: 02/10/25

pH 7.99 pH Units 8.03 0.499 20

Summit Scientific



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Reported:
03/10/25 12:58

Notes and Definitions

- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference