

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 01, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Farr T4N-R64W-S8 L01

Work Order #2406373

Enclosed are the results of analyses for samples received by Summit Scientific on 06/25/24 16:42. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Natalie Tessier For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:51

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| N01@8.0' | 2406373-01 | Soil | 06/25/24 00:00 | 06/25/24 16:42 |

Case Narrative

Rerun analyses were performed by client request on 7/24/24.
The rerun results included in this report are denoted with "RE#."

This is a revision of the report originally sent on 7/2/24 at 10:48 MT.

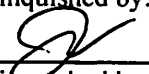
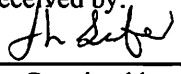
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4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

| | |
|----------------|---------------------------|
| Lab ID | Page <u>1</u> of <u>1</u> |
| 2406373 | |

| | | | | | |
|----------------------------|--|--|--|------------------------|--|
| Client: Fremont Env | | Send Data To: | | Send Invoice To: | |
| Address: | | Project Manager: Paul Henehan | | Company: Noble | |
| City/State/Zip: | | E-Mail: Paulh@Fremontenv.com | | Project Name/Location: | |
| Phone: | | jeff@Fremontenv.com Ethanb@Fremontenv.com | | AFE#: | |
| Sampler Name: JL | | Project Name: Farr TUN-R64W-S18 L01 | | PO/Billing Codes: | |
| | | Project Number: | | Contact: | |

| | | | | | Preservative | | | | Matrix | | | | Analysis Requested | | | | | | | Special Instructions | |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------------|--------|------|----------------|-------------|--------------------|------------|-------------|------------|---------------------|--------------|--|----------------------|--|
| ID | Sample Description | Date Sampled | Time Sampled | # of containers | HCl | HNO3 | None | Other _____ | Water | Soil | Air-Canister # | Other _____ | BTEX+N | TMBs (915) | DRO,ORO,GRO | PAHs (915) | EC-IPH, SAG, Bioreg | Metals (915) | | | |
| 1 | Noice 8.0' | 6/25/24 | | 2 | | | X | | | X | | | X | X | X | X | X | X | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|--|---------------------------|--|---------------------------|--------------------|-------------|--------|
| Relinquished by:  | Date/Time: 6/25/24 | Received by:  | Date/Time: 6-25-24 | TAT Business Days | Field DO | Notes: |
| | | | | Same Day X | Field EC | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 1 Day | Field ORP | |
| | | | | 2 Days | Field pH | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 3 Days | Field Temp. | |
| | | | | Standard | Field Turb. | |
| Temperature Upon Receipt: 22.5 | | Corrected Temperature | | IR gun #: 2 | HNO3 lot #: | |

S₂

Sample Receipt Checklist

S2 Work Order# 2406373Client: FremontClient Project ID: Farr T4N-R164W-S18 L01Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☐ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 27.5 Thermometer # ☐

| | 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 type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| If custody seals are present, are they intact? ⁽¹⁾ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Are samples due within 48 hours present? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Same day |
| Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾ | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | no sample time |
| Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾ | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | no relinquish time |
| 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

6/25/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:51

N01@8.0'
2406373-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/25/24 00:00**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Benzene | ND | 0.0020 | mg/kg | 1 | BHF0832 | 06/25/24 | 06/25/24 | EPA 8260B | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | " | " | " | " | " | |

Date Sampled: **06/25/24 00:00**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0562 | 140 % | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0392 | 97.9 % | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0418 | 104 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/25/24 00:00**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BHF0833 | 06/25/24 | 06/25/24 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **06/25/24 00:00**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | |
| Surrogate: o-Terphenyl | 7.36 | 58.9 % | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:51

N01@8.0'
2406373-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/25/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHF0844 | 06/26/24 | 06/26/24 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **06/25/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0165 | 49.4 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0140 | 42.0 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/25/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BHF0865 | 06/26/24 | 06/28/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/25/24 00:00**

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:51

N01@8.0'
2406373-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| | | | | | | | | |
|----------|--------|--------|-----------|---|---------|----------|----------|-----------|
| Barium | 121 | 0.400 | mg/kg dry | 1 | BHF0848 | 06/26/24 | 06/27/24 | EPA 6020B |
| Cadmium | 0.285 | 0.200 | " | " | " | " | " | " |
| Copper | 7.98 | 0.400 | " | " | " | " | " | " |
| Lead | 7.12 | 0.200 | " | " | " | " | " | " |
| Nickel | 9.29 | 0.400 | " | " | " | " | " | " |
| Silver | 0.0251 | 0.0200 | " | " | " | " | " | " |
| Zinc | 17.6 | 0.400 | " | " | " | " | " | " |
| Selenium | ND | 0.260 | " | " | " | " | " | " |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/25/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHF0853 | 06/26/24 | 06/26/24 | EPA 7196A | |

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

Date Sampled: **06/25/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 34.2 | 0.0500 | mg/L dry | 1 | BHF0801 | 06/25/24 | 06/27/24 | EPA 6020B | |
| Magnesium | 19.5 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 64.0 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **06/25/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 2.16 | 0.00100 | units | 1 | BHF0946 | 06/28/24 | 06/28/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/25/24 00:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 87.3 | | % | 1 | BHF0842 | 06/26/24 | 06/27/24 | Calculation | |

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Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:51

N01@8.0'
2406373-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/25/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Specific Conductance (EC) | 0.484 | 0.0100 | | mmhos/cm | 1 | BHF0811 | 06/25/24 | 06/26/24 | EPA 120.1 | |

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

Date Sampled: **06/25/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| pH | 8.13 | | | pH Units | 1 | BHF0810 | 06/25/24 | 06/26/24 | EPA 9045D | |

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Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:51

N01@8.0'
2406373-01RE1 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/25/24 00:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Arsenic | 2.69 | 0.180 | | mg/kg dry | 1 | BHG0785 | 07/26/24 | 08/01/24 | EPA 6020B | |

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PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHF0832 - EPA 5030 Soil MS

Blank (BHF0832-BLK1)

Prepared: 06/25/24 Analyzed: 06/26/24

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | ND | 0.0020 | mg/kg | | | | | | | |
| Toluene | ND | 0.0050 | " | | | | | | | |
| Ethylbenzene | ND | 0.0050 | " | | | | | | | |
| Xylenes (total) | ND | 0.010 | " | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | | | | | | | |
| Naphthalene | ND | 0.0038 | " | | | | | | | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0488 | | " | 0.0400 | | 122 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0387 | | " | 0.0400 | | 96.8 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0425 | | " | 0.0400 | | 106 | 50-150 | | | |

LCS (BHF0832-BS1)

Prepared: 06/25/24 Analyzed: 06/26/24

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | 0.101 | 0.0020 | mg/kg | 0.100 | | 101 | 70-130 | | | |
| Toluene | 0.104 | 0.0050 | " | 0.100 | | 104 | 70-130 | | | |
| Ethylbenzene | 0.103 | 0.0050 | " | 0.100 | | 103 | 70-130 | | | |
| m,p-Xylene | 0.200 | 0.010 | " | 0.200 | | 99.9 | 70-130 | | | |
| o-Xylene | 0.102 | 0.0050 | " | 0.100 | | 102 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.101 | 0.0050 | " | 0.100 | | 101 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.101 | 0.0050 | " | 0.100 | | 101 | 70-130 | | | |
| Naphthalene | 0.102 | 0.0038 | " | 0.100 | | 102 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0499 | | " | 0.0400 | | 125 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0407 | | " | 0.0400 | | 102 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0398 | | " | 0.0400 | | 99.5 | 50-150 | | | |

Matrix Spike (BHF0832-MS1)

Source: 2406355-03

Prepared: 06/25/24 Analyzed: 06/26/24

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|----|------|--------|--|--|--|
| Benzene | 0.0917 | 0.0020 | mg/kg | 0.100 | ND | 91.7 | 70-130 | | | |
| Toluene | 0.0963 | 0.0050 | " | 0.100 | ND | 96.3 | 70-130 | | | |
| Ethylbenzene | 0.0934 | 0.0050 | " | 0.100 | ND | 93.4 | 70-130 | | | |
| m,p-Xylene | 0.185 | 0.010 | " | 0.200 | ND | 92.3 | 70-130 | | | |
| o-Xylene | 0.0925 | 0.0050 | " | 0.100 | ND | 92.5 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.0866 | 0.0050 | " | 0.100 | ND | 86.6 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0881 | 0.0050 | " | 0.100 | ND | 88.1 | 70-130 | | | |
| Naphthalene | 0.0840 | 0.0038 | " | 0.100 | ND | 84.0 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0515 | | " | 0.0400 | | 129 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0400 | | " | 0.0400 | | 100 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0413 | | " | 0.0400 | | 103 | 50-150 | | | |

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHF0832 - EPA 5030 Soil MS

| Matrix Spike Dup (BHF0832-MSD1) | | Source: 2406355-03 | | | Prepared: 06/25/24 Analyzed: 06/26/24 | | | | | |
|----------------------------------|--------|--------------------|-------|--------|---------------------------------------|------|--------|------|----|--|
| Benzene | 0.0949 | 0.0020 | mg/kg | 0.100 | ND | 94.9 | 70-130 | 3.41 | 30 | |
| Toluene | 0.0979 | 0.0050 | " | 0.100 | ND | 97.9 | 70-130 | 1.64 | 30 | |
| Ethylbenzene | 0.103 | 0.0050 | " | 0.100 | ND | 103 | 70-130 | 10.2 | 30 | |
| m,p-Xylene | 0.204 | 0.010 | " | 0.200 | ND | 102 | 70-130 | 10.2 | 30 | |
| o-Xylene | 0.0993 | 0.0050 | " | 0.100 | ND | 99.3 | 70-130 | 7.10 | 30 | |
| 1,2,4-Trimethylbenzene | 0.0945 | 0.0050 | " | 0.100 | ND | 94.5 | 70-130 | 8.72 | 30 | |
| 1,3,5-Trimethylbenzene | 0.0969 | 0.0050 | " | 0.100 | ND | 96.9 | 70-130 | 9.47 | 30 | |
| Naphthalene | 0.0870 | 0.0038 | " | 0.100 | ND | 87.0 | 70-130 | 3.54 | 30 | |
| <hr/> | | | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0499 | | " | 0.0400 | | 125 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0416 | | " | 0.0400 | | 104 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0428 | | " | 0.0400 | | 107 | 50-150 | | | |

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:51

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHF0833 - EPA 3550A

Blank (BHF0833-BLK1)

Prepared: 06/25/24 Analyzed: 06/26/24

| | | | | | | | | | | |
|------------------------|------|----|-------|------|--|------|--------|--|--|--|
| C10-C28 (DRO) | ND | 50 | mg/kg | | | | | | | |
| C28-C36 (ORO) | ND | 50 | " | | | | | | | |
| Surrogate: o-Terphenyl | 12.2 | | " | 12.5 | | 97.3 | 30-150 | | | |

LCS (BHF0833-BS1)

Prepared: 06/25/24 Analyzed: 06/26/24

| | | | | | | | | | | |
|------------------------|------|----|-------|------|--|------|--------|--|--|--|
| C10-C28 (DRO) | 446 | 50 | mg/kg | 500 | | 89.2 | 70-130 | | | |
| Surrogate: o-Terphenyl | 12.0 | | " | 12.5 | | 96.4 | 30-150 | | | |

Matrix Spike (BHF0833-MS1)

Source: 2406355-03

Prepared: 06/25/24 Analyzed: 06/26/24

| | | | | | | | | | | |
|------------------------|------|----|-------|------|------|------|--------|--|--|--|
| C10-C28 (DRO) | 393 | 50 | mg/kg | 500 | 24.5 | 73.7 | 70-130 | | | |
| Surrogate: o-Terphenyl | 6.74 | | " | 12.5 | | 53.9 | 30-150 | | | |

Matrix Spike Dup (BHF0833-MSD1)

Source: 2406355-03

Prepared: 06/25/24 Analyzed: 06/26/24

| | | | | | | | | | | |
|------------------------|------|----|-------|------|------|------|--------|------|----|--|
| C10-C28 (DRO) | 408 | 50 | mg/kg | 500 | 24.5 | 76.8 | 70-130 | 3.86 | 20 | |
| Surrogate: o-Terphenyl | 7.12 | | " | 12.5 | | 57.0 | 30-150 | | | |

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:51

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHF0844 - EPA 5030 Soil MS

Blank (BHF0844-BLK1)

Prepared & Analyzed: 06/26/24

| | | | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|--|------|--|--------|--|--|--|
| Acenaphthene | ND | 0.00500 | mg/kg | | | | | | | | |
| Anthracene | ND | 0.00500 | " | | | | | | | | |
| Benzo (a) anthracene | ND | 0.00500 | " | | | | | | | | |
| Benzo (a) pyrene | ND | 0.00500 | " | | | | | | | | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | | | | | | | | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | | | | | | | | |
| Chrysene | ND | 0.00500 | " | | | | | | | | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | | | | | | | | |
| Fluoranthene | ND | 0.00500 | " | | | | | | | | |
| Fluorene | ND | 0.00500 | " | | | | | | | | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | | | | | | | | |
| Pyrene | ND | 0.00500 | " | | | | | | | | |
| 1-Methylnaphthalene | ND | 0.00500 | " | | | | | | | | |
| 2-Methylnaphthalene | ND | 0.00500 | " | | | | | | | | |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0205 | | " | 0.0333 | | 61.6 | | 40-150 | | | |
| Surrogate: Fluoranthene-d10 | 0.0184 | | " | 0.0333 | | 55.1 | | 40-150 | | | |

LCS (BHF0844-BS1)

Prepared & Analyzed: 06/26/24

| | | | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|--|------|--|--------|--|--|--|
| Acenaphthene | 0.0201 | 0.00500 | mg/kg | 0.0333 | | 60.3 | | 31-137 | | | |
| Anthracene | 0.0204 | 0.00500 | " | 0.0333 | | 61.3 | | 30-120 | | | |
| Benzo (a) anthracene | 0.0230 | 0.00500 | " | 0.0333 | | 69.1 | | 30-120 | | | |
| Benzo (a) pyrene | 0.0209 | 0.00500 | " | 0.0333 | | 62.8 | | 30-120 | | | |
| Benzo (b) fluoranthene | 0.0213 | 0.00500 | " | 0.0333 | | 63.8 | | 30-120 | | | |
| Benzo (k) fluoranthene | 0.0220 | 0.00500 | " | 0.0333 | | 66.1 | | 30-120 | | | |
| Chrysene | 0.0226 | 0.00500 | " | 0.0333 | | 67.8 | | 30-120 | | | |
| Dibenz (a,h) anthracene | 0.0198 | 0.00500 | " | 0.0333 | | 59.4 | | 30-120 | | | |
| Fluoranthene | 0.0200 | 0.00500 | " | 0.0333 | | 60.1 | | 30-120 | | | |
| Fluorene | 0.0193 | 0.00500 | " | 0.0333 | | 58.0 | | 30-120 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0187 | 0.00500 | " | 0.0333 | | 56.2 | | 30-120 | | | |
| Pyrene | 0.0228 | 0.00500 | " | 0.0333 | | 68.3 | | 35-142 | | | |
| 1-Methylnaphthalene | 0.0191 | 0.00500 | " | 0.0333 | | 57.4 | | 35-142 | | | |
| 2-Methylnaphthalene | 0.0172 | 0.00500 | " | 0.0333 | | 51.7 | | 35-142 | | | |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0201 | | " | 0.0333 | | 60.3 | | 40-150 | | | |
| Surrogate: Fluoranthene-d10 | 0.0213 | | " | 0.0333 | | 63.9 | | 40-150 | | | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:51

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHF0844 - EPA 5030 Soil MS

Matrix Spike (BHF0844-MS1)

Source: 2406372-01

Prepared & Analyzed: 06/26/24

| | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|----|------|--------|--|--|
| Acenaphthene | 0.0157 | 0.00500 | mg/kg | 0.0333 | ND | 47.1 | 31-137 | | |
| Anthracene | 0.0165 | 0.00500 | " | 0.0333 | ND | 49.6 | 30-120 | | |
| Benzo (a) anthracene | 0.0193 | 0.00500 | " | 0.0333 | ND | 58.0 | 30-120 | | |
| Benzo (a) pyrene | 0.0172 | 0.00500 | " | 0.0333 | ND | 51.5 | 30-120 | | |
| Benzo (b) fluoranthene | 0.0177 | 0.00500 | " | 0.0333 | ND | 53.0 | 30-120 | | |
| Benzo (k) fluoranthene | 0.0174 | 0.00500 | " | 0.0333 | ND | 52.1 | 30-120 | | |
| Chrysene | 0.0195 | 0.00500 | " | 0.0333 | ND | 58.4 | 30-120 | | |
| Dibenz (a,h) anthracene | 0.0148 | 0.00500 | " | 0.0333 | ND | 44.3 | 30-120 | | |
| Fluoranthene | 0.0173 | 0.00500 | " | 0.0333 | ND | 51.8 | 30-120 | | |
| Fluorene | 0.0172 | 0.00500 | " | 0.0333 | ND | 51.7 | 30-120 | | |
| Indeno (1,2,3-cd) pyrene | 0.0163 | 0.00500 | " | 0.0333 | ND | 49.0 | 30-120 | | |
| Pyrene | 0.0200 | 0.00500 | " | 0.0333 | ND | 60.1 | 35-142 | | |
| 1-Methylnaphthalene | 0.0141 | 0.00500 | " | 0.0333 | ND | 42.3 | 15-130 | | |
| 2-Methylnaphthalene | 0.0129 | 0.00500 | " | 0.0333 | ND | 38.7 | 15-130 | | |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0138 | | " | 0.0333 | | 41.4 | 40-150 | | |
| Surrogate: Fluoranthene-d10 | 0.0166 | | " | 0.0333 | | 49.8 | 40-150 | | |

Matrix Spike Dup (BHF0844-MSD1)

Source: 2406372-01

Prepared & Analyzed: 06/26/24

| | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|----|------|--------|-------|----|
| Acenaphthene | 0.0165 | 0.00500 | mg/kg | 0.0333 | ND | 49.4 | 31-137 | 4.65 | 30 |
| Anthracene | 0.0163 | 0.00500 | " | 0.0333 | ND | 48.9 | 30-120 | 1.43 | 30 |
| Benzo (a) anthracene | 0.0199 | 0.00500 | " | 0.0333 | ND | 59.7 | 30-120 | 2.76 | 30 |
| Benzo (a) pyrene | 0.0176 | 0.00500 | " | 0.0333 | ND | 52.8 | 30-120 | 2.50 | 30 |
| Benzo (b) fluoranthene | 0.0181 | 0.00500 | " | 0.0333 | ND | 54.3 | 30-120 | 2.34 | 30 |
| Benzo (k) fluoranthene | 0.0174 | 0.00500 | " | 0.0333 | ND | 52.3 | 30-120 | 0.366 | 30 |
| Chrysene | 0.0189 | 0.00500 | " | 0.0333 | ND | 56.7 | 30-120 | 2.89 | 30 |
| Dibenz (a,h) anthracene | 0.0159 | 0.00500 | " | 0.0333 | ND | 47.6 | 30-120 | 7.09 | 30 |
| Fluoranthene | 0.0171 | 0.00500 | " | 0.0333 | ND | 51.3 | 30-120 | 0.896 | 30 |
| Fluorene | 0.0175 | 0.00500 | " | 0.0333 | ND | 52.4 | 30-120 | 1.44 | 30 |
| Indeno (1,2,3-cd) pyrene | 0.0158 | 0.00500 | " | 0.0333 | ND | 47.4 | 30-120 | 3.29 | 30 |
| Pyrene | 0.0200 | 0.00500 | " | 0.0333 | ND | 59.9 | 35-142 | 0.398 | 30 |
| 1-Methylnaphthalene | 0.0183 | 0.00500 | " | 0.0333 | ND | 54.8 | 15-130 | 25.8 | 50 |
| 2-Methylnaphthalene | 0.0175 | 0.00500 | " | 0.0333 | ND | 52.4 | 15-130 | 30.2 | 50 |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0170 | | " | 0.0333 | | 50.9 | 40-150 | | |
| Surrogate: Fluoranthene-d10 | 0.0171 | | " | 0.0333 | | 51.4 | 40-150 | | |

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:51

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

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

Batch BHF0865 - EPA 3050B

Blank (BHF0865-BLK1)

Prepared: 06/26/24 Analyzed: 06/28/24

Boron ND 2.00 mg/L

LCS (BHF0865-BS1)

Prepared: 06/26/24 Analyzed: 06/28/24

Boron 5.47 2.00 mg/L 5.00 109 80-120

Duplicate (BHF0865-DUP1)

Source: 2406372-01

Prepared: 06/26/24 Analyzed: 06/28/24

Boron 0.259 2.00 mg/L 0.318 20.6 20 QR-02

Matrix Spike (BHF0865-MS1)

Source: 2406372-01

Prepared: 06/26/24 Analyzed: 06/28/24

Boron 5.44 2.00 mg/L 5.01 0.318 102 75-125

Matrix Spike Dup (BHF0865-MSD1)

Source: 2406372-01

Prepared: 06/26/24 Analyzed: 06/28/24

Boron 5.71 2.00 mg/L 5.01 0.318 108 75-125 4.76 25

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.



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:51

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BHF0848 - EPA 3050B

Blank (BHF0848-BLK1)

Prepared: 06/26/24 Analyzed: 06/27/24

| | | | |
|----------|----|--------|-----------|
| Arsenic | ND | 0.200 | mg/kg wet |
| Barium | ND | 0.400 | " |
| Cadmium | ND | 0.200 | " |
| Copper | ND | 0.400 | " |
| Lead | ND | 0.200 | " |
| Nickel | ND | 0.400 | " |
| Silver | ND | 0.0200 | " |
| Zinc | ND | 0.400 | " |
| Selenium | ND | 0.260 | " |

LCS (BHF0848-BS1)

Prepared: 06/26/24 Analyzed: 06/27/24

| | | | | | | |
|----------|------|--------|-----------|------|------|--------|
| Arsenic | 36.5 | 0.200 | mg/kg wet | 40.0 | 91.3 | 80-120 |
| Barium | 38.6 | 0.400 | " | 40.0 | 96.5 | 80-120 |
| Cadmium | 1.94 | 0.200 | " | 2.00 | 96.9 | 80-120 |
| Copper | 37.9 | 0.400 | " | 40.0 | 94.7 | 80-120 |
| Lead | 19.4 | 0.200 | " | 20.0 | 97.0 | 80-120 |
| Nickel | 37.5 | 0.400 | " | 40.0 | 93.8 | 80-120 |
| Silver | 1.93 | 0.0200 | " | 2.00 | 96.7 | 80-120 |
| Zinc | 41.3 | 0.400 | " | 40.0 | 103 | 80-120 |
| Selenium | 4.43 | 0.260 | " | 4.00 | 111 | 80-120 |

Duplicate (BHF0848-DUP1)

Source: 2406372-01

Prepared: 06/26/24 Analyzed: 06/27/24

| | | | | | | |
|----------|-------|--------|-----------|-------|-------|----|
| Arsenic | 6.25 | 0.200 | mg/kg dry | 6.24 | 0.152 | 20 |
| Barium | 140 | 0.400 | " | 140 | 0.392 | 20 |
| Cadmium | 0.550 | 0.200 | " | 0.546 | 0.787 | 20 |
| Copper | 18.3 | 0.400 | " | 18.2 | 0.581 | 20 |
| Lead | 53.1 | 0.200 | " | 53.3 | 0.350 | 20 |
| Nickel | 18.5 | 0.400 | " | 18.5 | 0.203 | 20 |
| Silver | 0.105 | 0.0200 | " | 0.107 | 1.63 | 20 |
| Zinc | 28.5 | 0.400 | " | 28.2 | 1.05 | 20 |
| Selenium | 0.289 | 0.260 | " | 0.275 | 5.06 | 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.



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:51

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BHF0848 - EPA 3050B

| Matrix Spike (BHF0848-MS1) | | | Source: 2406372-01 | | Prepared: 06/26/24 Analyzed: 06/27/24 | | | | | | |
|----------------------------|------|--------|--------------------|------|---------------------------------------|------|--------|--|--|--|-------|
| Arsenic | 39.5 | 0.200 | mg/kg dry | 43.5 | 6.24 | 76.4 | 75-125 | | | | |
| Barium | 117 | 0.400 | " | 43.5 | 140 | NR | 75-125 | | | | QM-07 |
| Cadmium | 2.30 | 0.200 | " | 2.18 | 0.546 | 80.6 | 75-125 | | | | |
| Copper | 47.3 | 0.400 | " | 43.5 | 18.2 | 66.8 | 75-125 | | | | QM-07 |
| Lead | 36.9 | 0.200 | " | 21.8 | 53.3 | NR | 75-125 | | | | QM-07 |
| Nickel | 45.9 | 0.400 | " | 43.5 | 18.5 | 62.9 | 75-125 | | | | QM-07 |
| Silver | 2.03 | 0.0200 | " | 2.18 | 0.107 | 88.2 | 75-125 | | | | |
| Zinc | 47.3 | 0.400 | " | 43.5 | 28.2 | 43.9 | 75-125 | | | | QM-07 |
| Selenium | 4.30 | 0.260 | " | 4.35 | 0.275 | 92.4 | 75-125 | | | | |

| Matrix Spike Dup (BHF0848-MSD1) | | | Source: 2406372-01 | | Prepared: 06/26/24 Analyzed: 06/27/24 | | | | | | |
|---------------------------------|------|--------|--------------------|------|---------------------------------------|------|--------|--------|----|--|-------|
| Arsenic | 40.6 | 0.200 | mg/kg dry | 43.5 | 6.24 | 79.1 | 75-125 | 2.86 | 25 | | |
| Barium | 120 | 0.400 | " | 43.5 | 140 | NR | 75-125 | 2.56 | 25 | | QM-07 |
| Cadmium | 2.36 | 0.200 | " | 2.18 | 0.546 | 83.6 | 75-125 | 2.80 | 25 | | |
| Copper | 48.7 | 0.400 | " | 43.5 | 18.2 | 70.0 | 75-125 | 2.89 | 25 | | QM-07 |
| Lead | 37.9 | 0.200 | " | 21.8 | 53.3 | NR | 75-125 | 2.59 | 25 | | QM-07 |
| Nickel | 47.3 | 0.400 | " | 43.5 | 18.5 | 66.3 | 75-125 | 3.12 | 25 | | QM-07 |
| Silver | 2.07 | 0.0200 | " | 2.18 | 0.107 | 90.3 | 75-125 | 2.29 | 25 | | |
| Zinc | 47.3 | 0.400 | " | 43.5 | 28.2 | 44.0 | 75-125 | 0.0782 | 25 | | QM-07 |
| Selenium | 4.61 | 0.260 | " | 4.35 | 0.275 | 99.6 | 75-125 | 7.04 | 25 | | |

Batch BHG0785 - EPA 3050B

| Blank (BHG0785-BLK1) | | | Prepared: 07/26/24 Analyzed: 08/01/24 | | | | | | | | |
|----------------------|----|--------|---------------------------------------|--|--|--|--|--|--|--|--|
| Arsenic | ND | 0.200 | mg/kg wet | | | | | | | | |
| Barium | ND | 0.400 | " | | | | | | | | |
| Cadmium | ND | 0.200 | " | | | | | | | | |
| Copper | ND | 0.400 | " | | | | | | | | |
| Lead | ND | 0.200 | " | | | | | | | | |
| Nickel | ND | 0.400 | " | | | | | | | | |
| Silver | ND | 0.0200 | " | | | | | | | | |
| Zinc | ND | 0.400 | " | | | | | | | | |
| Selenium | ND | 0.260 | " | | | | | | | | |

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.



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:51

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHG0785 - EPA 3050B

LCS (BHG0785-BS1)

Prepared: 07/26/24 Analyzed: 08/01/24

| | | | | | | | | | | |
|----------|------|--------|-----------|------|--|------|--------|--|--|-------|
| Arsenic | 40.0 | 0.200 | mg/kg wet | 39.1 | | 102 | 80-120 | | | |
| Barium | 55.7 | 0.400 | " | 39.1 | | 143 | 80-120 | | | QM-07 |
| Cadmium | 1.91 | 0.200 | " | 1.95 | | 97.7 | 80-120 | | | |
| Copper | 40.4 | 0.400 | " | 39.1 | | 103 | 80-120 | | | |
| Lead | 19.2 | 0.200 | " | 19.5 | | 98.3 | 80-120 | | | |
| Nickel | 40.5 | 0.400 | " | 39.1 | | 104 | 80-120 | | | |
| Silver | 1.93 | 0.0200 | " | 1.95 | | 98.9 | 80-120 | | | |
| Zinc | 40.3 | 0.400 | " | 39.1 | | 103 | 80-120 | | | |
| Selenium | 3.76 | 0.260 | " | 3.91 | | 96.3 | 80-120 | | | |

Duplicate (BHG0785-DUP1)

Source: 2406373-01RE1

Prepared: 07/26/24 Analyzed: 08/01/24

| | | | | | | | | | | |
|----------|--------|--------|-----------|--|--------|--|--|-------|----|--|
| Arsenic | 2.79 | 0.200 | mg/kg dry | | 2.69 | | | 3.36 | 20 | |
| Barium | 119 | 0.400 | " | | 125 | | | 4.94 | 20 | |
| Cadmium | 0.294 | 0.200 | " | | 0.296 | | | 0.732 | 20 | |
| Copper | 5.56 | 0.400 | " | | 5.28 | | | 5.02 | 20 | |
| Lead | 6.61 | 0.200 | " | | 7.55 | | | 13.3 | 20 | |
| Nickel | 6.07 | 0.400 | " | | 5.86 | | | 3.58 | 20 | |
| Silver | 0.0268 | 0.0200 | " | | 0.0284 | | | 5.84 | 20 | |
| Zinc | 19.8 | 0.400 | " | | 18.8 | | | 5.24 | 20 | |
| Selenium | ND | 0.260 | " | | ND | | | | 20 | |

Matrix Spike (BHG0785-MS1)

Source: 2406373-01RE1

Prepared: 07/26/24 Analyzed: 08/01/24

| | | | | | | | | | | |
|----------|------|--------|-----------|------|--------|------|--------|--|--|-------|
| Arsenic | 28.4 | 0.200 | mg/kg dry | 42.4 | 2.69 | 60.5 | 75-125 | | | QM-05 |
| Barium | 148 | 0.400 | " | 42.4 | 125 | 55.5 | 75-125 | | | QM-07 |
| Cadmium | 2.40 | 0.200 | " | 2.12 | 0.296 | 99.2 | 75-125 | | | |
| Copper | 31.5 | 0.400 | " | 42.4 | 5.28 | 61.7 | 75-125 | | | QM-05 |
| Lead | 25.0 | 0.200 | " | 21.2 | 7.55 | 82.0 | 75-125 | | | |
| Nickel | 32.4 | 0.400 | " | 42.4 | 5.86 | 62.6 | 75-125 | | | QM-05 |
| Silver | 2.08 | 0.0200 | " | 2.12 | 0.0284 | 96.8 | 75-125 | | | |
| Zinc | 45.1 | 0.400 | " | 42.4 | 18.8 | 62.0 | 75-125 | | | QM-05 |
| Selenium | 4.08 | 0.260 | " | 4.24 | ND | 96.0 | 75-125 | | | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:51

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BHG0785 - EPA 3050B

Matrix Spike Dup (BHG0785-MSD1)

Source: 2406373-01RE1

Prepared: 07/26/24 Analyzed: 08/01/24

| | | | | | | | | | | |
|----------|------|--------|-----------|------|--------|------|--------|------|----|-------|
| Arsenic | 31.6 | 0.200 | mg/kg dry | 45.1 | 2.69 | 64.0 | 75-125 | 10.7 | 25 | QM-05 |
| Barium | 153 | 0.400 | " | 45.1 | 125 | 61.9 | 75-125 | 2.91 | 25 | QM-07 |
| Cadmium | 2.55 | 0.200 | " | 2.26 | 0.296 | 99.8 | 75-125 | 5.98 | 25 | |
| Copper | 34.1 | 0.400 | " | 45.1 | 5.28 | 63.9 | 75-125 | 8.15 | 25 | QM-05 |
| Lead | 28.0 | 0.200 | " | 22.6 | 7.55 | 90.5 | 75-125 | 11.4 | 25 | |
| Nickel | 35.2 | 0.400 | " | 45.1 | 5.86 | 65.1 | 75-125 | 8.17 | 25 | QM-05 |
| Silver | 2.24 | 0.0200 | " | 2.26 | 0.0284 | 98.3 | 75-125 | 7.50 | 25 | |
| Zinc | 48.3 | 0.400 | " | 45.1 | 18.8 | 65.4 | 75-125 | 6.86 | 25 | QM-05 |
| Selenium | 4.49 | 0.260 | " | 4.51 | ND | 99.5 | 75-125 | 9.65 | 25 | |

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:51

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHF0853 - 3060A Mod

Blank (BHF0853-BLK1)

Prepared & Analyzed: 06/26/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHF0853-BS1)

Prepared & Analyzed: 06/26/24

Chromium, Hexavalent 25.2 0.30 mg/kg wet 25.0 101 80-120

Duplicate (BHF0853-DUP1)

Source: 2406319-01

Prepared & Analyzed: 06/26/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHF0853-MS1)

Source: 2406319-01

Prepared & Analyzed: 06/26/24

Chromium, Hexavalent 28.8 0.30 mg/kg dry 29.0 ND 99.4 75-125

Matrix Spike Dup (BHF0853-MSD1)

Source: 2406319-01

Prepared & Analyzed: 06/26/24

Chromium, Hexavalent 28.2 0.30 mg/kg dry 29.0 ND 97.4 75-125 2.03 20

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:51

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

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

Batch BHF0801 - General Preparation

Blank (BHF0801-BLK1)

Prepared: 06/25/24 Analyzed: 06/27/24

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

LCS (BHF0801-BS1)

Prepared: 06/25/24 Analyzed: 06/27/24

| | | | | | | |
|-----------|------|--------|----------|------|------|--------|
| Calcium | 5.57 | 0.0500 | mg/L wet | 5.00 | 111 | 70-130 |
| Magnesium | 4.89 | 0.0500 | " | 5.00 | 97.8 | 70-130 |
| Sodium | 4.43 | 0.0500 | " | 5.00 | 88.6 | 70-130 |

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| | | |
|--|--|-----------------------------|
| Fremont Environmental PO Box 1289 Wellington CO, 80549 | Project: Noble - Farr T4N-R64W-S8 L01 Project Number: [none] Project Manager: Paul Henchan | Reported: 08/01/24 13:51 |
|--|--|-----------------------------|

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

Summit Scientific

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

Batch BHF0842 - General Preparation

| | | | | | | | | | | | |
|--------------------------|--------------------|--|---|---------------------------------------|------|--|--|------|--|----|--|
| Duplicate (BHF0842-DUP1) | Source: 2406372-01 | | | Prepared: 06/26/24 Analyzed: 06/27/24 | | | | | | | |
| % Solids | 91.7 | | % | | 90.5 | | | 1.34 | | 20 | |

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:51

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

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

Batch BHF0811 - General Preparation

Blank (BHF0811-BLK1)

Prepared: 06/25/24 Analyzed: 06/26/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHF0811-BS1)

Prepared: 06/25/24 Analyzed: 06/26/24

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

Duplicate (BHF0811-DUP1)

Source: 2406301-01

Prepared: 06/25/24 Analyzed: 06/26/24

Specific Conductance (EC) 0.0520 0.0100 mmhos/cm 0.0519 0.154 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:51

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

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

Batch BHF0810 - General Preparation

LCS (BHF0810-BS1)

Prepared: 06/25/24 Analyzed: 06/26/24

| | | | | | |
|----|------|----------|------|------|--------|
| pH | 9.15 | pH Units | 9.18 | 99.7 | 95-105 |
|----|------|----------|------|------|--------|

Duplicate (BHF0810-DUP1)

Source: 2406301-01

Prepared: 06/25/24 Analyzed: 06/26/24

| | | | | | |
|----|------|----------|------|------|----|
| pH | 7.04 | pH Units | 7.14 | 1.41 | 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.



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S8 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:51

Notes and Definitions

| | |
|-------|---|
| QR-02 | The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data. |
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery. |
| QM-05 | The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid. |
| 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 |