

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 09, 2024

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Noble - Frico 06-14 Flowline

Work Order #2410044

Enclosed are the results of analyses for samples received by Summit Scientific on 10/02/24 17:47. 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



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

Project: Noble - Frico 06-14 Flowline

Project Number: UWRWE-A3593-ABN 31344

Project Manager: Jacob Whritenour

Reported:
10/09/24 08:50

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|------------|---------------|--------|----------------|----------------|
| FL01-02@3' | 2410044-01 | Soil | 10/02/24 14:45 | 10/02/24 17:47 |

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.

| | | |
|--------------------------------------|---|--|
| Send Data To: | | Send Invoice To: |
| Client: Noble/Tasman | Project Manager: Jake Whritenour | Company: <u>Noble</u> |
| Address: 6855 W. 119th Ave. | E-Mail: Jwhritenour@tasman-geo.com | Project Name/Location: <u>Frio 6-14 Flowline</u> |
| City/State/Zip: Broomfield/CO/ 80020 | | AFE#: <u>UWRWE-A3593-ABN</u> |
| Phone: <u>937-554-5108</u> | Project Name: <u>Frio 6-14 Flowline</u> | PO/Billing Codes: |
| Sampler Name: <u>Molly Parks</u> | Project Number: <u>31344</u> | Contact: <u>Wade Firestein</u> |

| | | | | | Preservative | | | | Matrix | | | | Analysis Requested | | | | | | | | Special Instructions | | |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------------|--------|------|----------------|-------------|--------------------|-----------|-----------|-----------|-------------|-------------|------|--|----------------------|--------------------------------|--|
| ID | Sample Description | Date Sampled | Time Sampled | # of containers | HCl | HNO3 | None | Other _____ | Water | Soil | Air-Canister # | Other _____ | Metals - 915 | VOC - 915 | TPH - 915 | PAH - 915 | SAR, EC, pH | Boron - HWS | HOLD | | | SAR, EC, pH by saturated paste | |
| 1 | FL01-02@3' | 10-2-24 | 1445 | 3 | | | 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: | Received by: Tasman Lock Box | Date/Time: | TAT Business Days | Field DO | Notes: |
| <u>MP</u> | <u>10-2-24 / 1650</u> | | <u>10-2-24 / 1650</u> | Same Day | Field EC | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 1 Day | Field ORP | |
| <u>Tasman Lock Box</u> | <u>10-2-24 / 1747</u> | <u>[Signature]</u> | <u>10-2-24 / 1747</u> | 2 Days | Field pH | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 3 Days | Field Temp. | |
| | | | | Standard | Field Turb. | |
| Temperature Upon Receipt: <u>4-5</u> | Corrected Temperature: <u>0</u> | IR gun #: <u>1</u> | HNO3 lot #: _____ | | | |

S₂

Sample Receipt Checklist

S2 Work Order# 2410044Client: Noble Tassman Client Project ID: Frica 6-14 FlowhuShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☐ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 9.3Thermometer # 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>none</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

10/2/24
Date/Time



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

Project: Noble - Frico 06-14 Flowline
Project Number: UWRWE-A3593-ABN 31344
Project Manager: Jacob Whritenour

Reported:
10/09/24 08:50

FL01-02@3'
2410044-01 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/02/24 14:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | BHJ0171 | 10/03/24 | 10/04/24 | 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: **10/02/24 14:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0403 | 101 % | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0399 | 99.7 % | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0378 | 94.5 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/02/24 14:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BHJ0172 | 10/03/24 | 10/07/24 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **10/02/24 14:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 10.1 | 80.8 % | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

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Project: Noble - Frico 06-14 Flowline
Project Number: UWRWE-A3593-ABN 31344
Project Manager: Jacob Whritenour

Reported:
10/09/24 08:50

FL01-02@3'
2410044-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **10/02/24 14:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BHJ0188 | 10/04/24 | 10/04/24 | 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: **10/02/24 14:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0204 | 61.2 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0201 | 60.2 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/02/24 14:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | ND | 2.00 | mg/L | 1 | BHJ0140 | 10/03/24 | 10/08/24 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **10/02/24 14:45**

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

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FL01-02@3'
2410044-01 (Soil)

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Total Metals by EPA 6020B

| | | | | | | | | |
|----------|--------|--------|-----------|---|---------|----------|----------|-----------|
| Arsenic | 5.97 | 0.200 | mg/kg dry | 1 | BHJ0220 | 10/04/24 | 10/07/24 | EPA 6020B |
| Barium | 910 | 0.400 | " | " | " | " | " | " |
| Cadmium | 0.328 | 0.200 | " | " | " | " | " | " |
| Copper | 9.04 | 0.400 | " | " | " | " | " | " |
| Lead | 6.70 | 0.200 | " | " | " | " | " | " |
| Nickel | 5.52 | 0.400 | " | " | " | " | " | " |
| Silver | 0.0274 | 0.0200 | " | " | " | " | " | " |
| Zinc | 14.9 | 0.400 | " | " | " | " | " | " |
| Selenium | ND | 0.260 | " | " | " | " | " | " |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/02/24 14:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BHJ0159 | 10/03/24 | 10/03/24 | EPA 7196A | |

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

Date Sampled: **10/02/24 14:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 46.0 | 0.0500 | mg/L dry | 1 | BHJ0165 | 10/03/24 | 10/07/24 | EPA 6020B | |
| Magnesium | 17.5 | 0.0500 | " | " | " | " | " | " | |
| Sodium | 85.6 | 0.0500 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **10/02/24 14:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 2.72 | 0.00100 | units | 1 | BHJ0299 | 10/08/24 | 10/08/24 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/02/24 14:45**

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

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Reported:
10/09/24 08:50

FL01-02@3'
2410044-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

| | | | | | | | |
|----------|------|---|---|---------|----------|----------|-------------|
| % Solids | 90.5 | % | 1 | BHJ0209 | 10/04/24 | 10/04/24 | Calculation |
|----------|------|---|---|---------|----------|----------|-------------|

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/02/24 14:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.680 | 0.0100 | mmhos/cm | 1 | BHJ0166 | 10/03/24 | 10/04/24 | EPA 120.1 | |

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

Date Sampled: **10/02/24 14:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.52 | | pH Units | 1 | BHJ0167 | 10/03/24 | 10/04/24 | EPA 9045D | |

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Project Number: UWRWE-A3593-ABN 31344
Project Manager: Jacob Whritenour

Reported:
10/09/24 08:50

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BHJ0171 - EPA 5030 Soil MS

Blank (BHJ0171-BLK1)

Prepared: 10/03/24 Analyzed: 10/04/24

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| 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 | 0.0420 | | " | 0.0400 | | 105 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0401 | | " | 0.0400 | | 100 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0391 | | " | 0.0400 | | 97.6 | 50-150 | | | |

LCS (BHJ0171-BS1)

Prepared: 10/03/24 Analyzed: 10/04/24

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | 0.0944 | 0.0020 | mg/kg | 0.100 | | 94.4 | 70-130 | | | |
| Toluene | 0.0933 | 0.0050 | " | 0.100 | | 93.3 | 70-130 | | | |
| Ethylbenzene | 0.101 | 0.0050 | " | 0.100 | | 101 | 70-130 | | | |
| m,p-Xylene | 0.197 | 0.010 | " | 0.200 | | 98.5 | 70-130 | | | |
| o-Xylene | 0.0992 | 0.0050 | " | 0.100 | | 99.2 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.100 | 0.0050 | " | 0.100 | | 100 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0993 | 0.0050 | " | 0.100 | | 99.3 | 70-130 | | | |
| Naphthalene | 0.0856 | 0.0038 | " | 0.100 | | 85.6 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0405 | | " | 0.0400 | | 101 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0403 | | " | 0.0400 | | 101 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0390 | | " | 0.0400 | | 97.6 | 50-150 | | | |

Matrix Spike (BHJ0171-MS1)

Source: 2410039-01

Prepared: 10/03/24 Analyzed: 10/04/24

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|----|------|--------|--|--|-------|
| Benzene | 0.0962 | 0.0020 | mg/kg | 0.100 | ND | 96.2 | 70-130 | | | |
| Toluene | 0.0951 | 0.0050 | " | 0.100 | ND | 95.1 | 70-130 | | | |
| Ethylbenzene | 0.0950 | 0.0050 | " | 0.100 | ND | 95.0 | 70-130 | | | |
| m,p-Xylene | 0.183 | 0.010 | " | 0.200 | ND | 91.6 | 70-130 | | | |
| o-Xylene | 0.0911 | 0.0050 | " | 0.100 | ND | 91.1 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.0883 | 0.0050 | " | 0.100 | ND | 88.3 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0903 | 0.0050 | " | 0.100 | ND | 90.3 | 70-130 | | | |
| Naphthalene | 0.0655 | 0.0038 | " | 0.100 | ND | 65.5 | 70-130 | | | QM-05 |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0452 | | " | 0.0400 | | 113 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0414 | | " | 0.0400 | | 103 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0401 | | " | 0.0400 | | 100 | 50-150 | | | |

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Project Number: UWRWE-A3593-ABN 31344
Project Manager: Jacob Whritenour

Reported:
10/09/24 08:50

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 BHJ0171 - EPA 5030 Soil MS

| Matrix Spike Dup (BHJ0171-MSD1) | | Source: 2410039-01 | | | Prepared: 10/03/24 Analyzed: 10/04/24 | | | | | |
|----------------------------------|--------|--------------------|-------|--------|---------------------------------------|------|--------|------|----|-------|
| Benzene | 0.0910 | 0.0020 | mg/kg | 0.100 | ND | 91.0 | 70-130 | 5.58 | 30 | |
| Toluene | 0.0886 | 0.0050 | " | 0.100 | ND | 88.6 | 70-130 | 7.09 | 30 | |
| Ethylbenzene | 0.0873 | 0.0050 | " | 0.100 | ND | 87.3 | 70-130 | 8.52 | 30 | |
| m,p-Xylene | 0.166 | 0.010 | " | 0.200 | ND | 82.8 | 70-130 | 10.1 | 30 | |
| o-Xylene | 0.0853 | 0.0050 | " | 0.100 | ND | 85.3 | 70-130 | 6.67 | 30 | |
| 1,2,4-Trimethylbenzene | 0.0790 | 0.0050 | " | 0.100 | ND | 79.0 | 70-130 | 11.1 | 30 | |
| 1,3,5-Trimethylbenzene | 0.0802 | 0.0050 | " | 0.100 | ND | 80.2 | 70-130 | 11.8 | 30 | |
| Naphthalene | 0.0549 | 0.0038 | " | 0.100 | ND | 54.9 | 70-130 | 17.7 | 30 | QM-05 |
| Surrogate: 1,2-Dichloroethane-d4 | | 0.0456 | " | 0.0400 | | 114 | 50-150 | | | |
| Surrogate: Toluene-d8 | | 0.0408 | " | 0.0400 | | 102 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | | 0.0401 | " | 0.0400 | | 100 | 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.



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

Project: Noble - Frico 06-14 Flowline
Project Number: UWRWE-A3593-ABN 31344
Project Manager: Jacob Whritenour

Reported:
10/09/24 08:50

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 BHJ0172 - EPA 3550A

Blank (BHJ0172-BLK1)

Prepared: 10/03/24 Analyzed: 10/07/24

| | | | | | | | | | | |
|------------------------|------|----|-------|------|--|------|--------|--|--|--|
| C10-C28 (DRO) | ND | 50 | mg/kg | | | | | | | |
| C28-C36 (ORO) | ND | 50 | " | | | | | | | |
| Surrogate: o-Terphenyl | 11.9 | | " | 12.5 | | 95.4 | 30-150 | | | |

LCS (BHJ0172-BS1)

Prepared: 10/03/24 Analyzed: 10/07/24

| | | | | | | | | | | |
|------------------------|------|----|-------|------|--|------|--------|--|--|--|
| C10-C28 (DRO) | 934 | 50 | mg/kg | 1000 | | 93.4 | 70-130 | | | |
| Surrogate: o-Terphenyl | 11.9 | | " | 12.5 | | 95.0 | 30-150 | | | |

Matrix Spike (BHJ0172-MS1)

Source: 2410039-01

Prepared: 10/03/24 Analyzed: 10/07/24

| | | | | | | | | | | |
|------------------------|------|----|-------|------|----|------|--------|--|--|--|
| C10-C28 (DRO) | 982 | 50 | mg/kg | 1000 | ND | 98.2 | 70-130 | | | |
| Surrogate: o-Terphenyl | 12.0 | | " | 12.5 | | 96.1 | 30-150 | | | |

Matrix Spike Dup (BHJ0172-MSD1)

Source: 2410039-01

Prepared: 10/03/24 Analyzed: 10/07/24

| | | | | | | | | | | |
|------------------------|------|----|-------|------|----|------|--------|------|----|--|
| C10-C28 (DRO) | 840 | 50 | mg/kg | 1000 | ND | 84.0 | 70-130 | 15.5 | 20 | |
| Surrogate: o-Terphenyl | 11.0 | | " | 12.5 | | 87.6 | 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.



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

Project: Noble - Frico 06-14 Flowline
Project Number: UWRWE-A3593-ABN 31344
Project Manager: Jacob Whritenour

Reported:
10/09/24 08:50

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHJ0188 - EPA 5030 Soil MS

Blank (BHJ0188-BLK1)

Prepared & Analyzed: 10/04/24

| | | | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|--|------|--|--------|--|--|--|
| 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 | 0.0235 | | " | 0.0333 | | 70.4 | | 40-150 | | | |
| Surrogate: Fluoranthene-d10 | 0.0205 | | " | 0.0333 | | 61.6 | | 40-150 | | | |

LCS (BHJ0188-BS1)

Prepared & Analyzed: 10/04/24

| | | | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|--|------|--|--------|--|--|--|
| Acenaphthene | 0.0256 | 0.00500 | mg/kg | 0.0333 | | 76.7 | | 31-137 | | | |
| Anthracene | 0.0259 | 0.00500 | " | 0.0333 | | 77.7 | | 30-120 | | | |
| Benzo (a) anthracene | 0.0251 | 0.00500 | " | 0.0333 | | 75.4 | | 30-120 | | | |
| Benzo (a) pyrene | 0.0229 | 0.00500 | " | 0.0333 | | 68.7 | | 30-120 | | | |
| Benzo (b) fluoranthene | 0.0230 | 0.00500 | " | 0.0333 | | 69.0 | | 30-120 | | | |
| Benzo (k) fluoranthene | 0.0240 | 0.00500 | " | 0.0333 | | 72.1 | | 30-120 | | | |
| Chrysene | 0.0271 | 0.00500 | " | 0.0333 | | 81.3 | | 30-120 | | | |
| Dibenz (a,h) anthracene | 0.0199 | 0.00500 | " | 0.0333 | | 59.7 | | 30-120 | | | |
| Fluoranthene | 0.0237 | 0.00500 | " | 0.0333 | | 71.0 | | 30-120 | | | |
| Fluorene | 0.0254 | 0.00500 | " | 0.0333 | | 76.3 | | 30-120 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0224 | 0.00500 | " | 0.0333 | | 67.3 | | 30-120 | | | |
| Pyrene | 0.0250 | 0.00500 | " | 0.0333 | | 74.9 | | 35-142 | | | |
| 1-Methylnaphthalene | 0.0240 | 0.00500 | " | 0.0333 | | 71.9 | | 35-142 | | | |
| 2-Methylnaphthalene | 0.0245 | 0.00500 | " | 0.0333 | | 73.5 | | 35-142 | | | |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0242 | | " | 0.0333 | | 72.6 | | 40-150 | | | |
| Surrogate: Fluoranthene-d10 | 0.0230 | | " | 0.0333 | | 69.1 | | 40-150 | | | |

Summit Scientific

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

Project: Noble - Frico 06-14 Flowline
Project Number: UWRWE-A3593-ABN 31344
Project Manager: Jacob Whritenour

Reported:
10/09/24 08:50

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHJ0188 - EPA 5030 Soil MS

Matrix Spike (BHJ0188-MS1)

Source: 2410042-01

Prepared & Analyzed: 10/04/24

| | | | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|----|------|--------|--|--|--|--|
| Acenaphthene | 0.0219 | 0.00500 | mg/kg | 0.0333 | ND | 65.8 | 31-137 | | | | |
| Anthracene | 0.0222 | 0.00500 | " | 0.0333 | ND | 66.5 | 30-120 | | | | |
| Benzo (a) anthracene | 0.0216 | 0.00500 | " | 0.0333 | ND | 64.9 | 30-120 | | | | |
| Benzo (a) pyrene | 0.0191 | 0.00500 | " | 0.0333 | ND | 57.3 | 30-120 | | | | |
| Benzo (b) fluoranthene | 0.0186 | 0.00500 | " | 0.0333 | ND | 55.8 | 30-120 | | | | |
| Benzo (k) fluoranthene | 0.0196 | 0.00500 | " | 0.0333 | ND | 58.7 | 30-120 | | | | |
| Chrysene | 0.0223 | 0.00500 | " | 0.0333 | ND | 66.9 | 30-120 | | | | |
| Dibenz (a,h) anthracene | 0.0170 | 0.00500 | " | 0.0333 | ND | 51.0 | 30-120 | | | | |
| Fluoranthene | 0.0199 | 0.00500 | " | 0.0333 | ND | 59.6 | 30-120 | | | | |
| Fluorene | 0.0218 | 0.00500 | " | 0.0333 | ND | 65.4 | 30-120 | | | | |
| Indeno (1,2,3-cd) pyrene | 0.0185 | 0.00500 | " | 0.0333 | ND | 55.5 | 30-120 | | | | |
| Pyrene | 0.0210 | 0.00500 | " | 0.0333 | ND | 62.9 | 35-142 | | | | |
| 1-Methylnaphthalene | 0.0194 | 0.00500 | " | 0.0333 | ND | 58.1 | 15-130 | | | | |
| 2-Methylnaphthalene | 0.0208 | 0.00500 | " | 0.0333 | ND | 62.3 | 15-130 | | | | |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0199 | | " | 0.0333 | | 59.6 | 40-150 | | | | |
| Surrogate: Fluoranthene-d10 | 0.0193 | | " | 0.0333 | | 57.8 | 40-150 | | | | |

Matrix Spike Dup (BHJ0188-MSD1)

Source: 2410042-01

Prepared & Analyzed: 10/04/24

| | | | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|----|------|--------|-------|----|--|--|
| Acenaphthene | 0.0203 | 0.00500 | mg/kg | 0.0333 | ND | 60.8 | 31-137 | 7.88 | 30 | | |
| Anthracene | 0.0211 | 0.00500 | " | 0.0333 | ND | 63.2 | 30-120 | 5.09 | 30 | | |
| Benzo (a) anthracene | 0.0219 | 0.00500 | " | 0.0333 | ND | 65.6 | 30-120 | 1.09 | 30 | | |
| Benzo (a) pyrene | 0.0185 | 0.00500 | " | 0.0333 | ND | 55.6 | 30-120 | 3.04 | 30 | | |
| Benzo (b) fluoranthene | 0.0178 | 0.00500 | " | 0.0333 | ND | 53.4 | 30-120 | 4.38 | 30 | | |
| Benzo (k) fluoranthene | 0.0181 | 0.00500 | " | 0.0333 | ND | 54.3 | 30-120 | 7.73 | 30 | | |
| Chrysene | 0.0224 | 0.00500 | " | 0.0333 | ND | 67.1 | 30-120 | 0.260 | 30 | | |
| Dibenz (a,h) anthracene | 0.0175 | 0.00500 | " | 0.0333 | ND | 52.5 | 30-120 | 3.08 | 30 | | |
| Fluoranthene | 0.0196 | 0.00500 | " | 0.0333 | ND | 58.8 | 30-120 | 1.31 | 30 | | |
| Fluorene | 0.0204 | 0.00500 | " | 0.0333 | ND | 61.3 | 30-120 | 6.52 | 30 | | |
| Indeno (1,2,3-cd) pyrene | 0.0194 | 0.00500 | " | 0.0333 | ND | 58.3 | 30-120 | 4.94 | 30 | | |
| Pyrene | 0.0182 | 0.00500 | " | 0.0333 | ND | 54.6 | 35-142 | 14.2 | 30 | | |
| 1-Methylnaphthalene | 0.0196 | 0.00500 | " | 0.0333 | ND | 58.7 | 15-130 | 1.09 | 50 | | |
| 2-Methylnaphthalene | 0.0215 | 0.00500 | " | 0.0333 | ND | 64.6 | 15-130 | 3.62 | 50 | | |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0205 | | " | 0.0333 | | 61.5 | 40-150 | | | | |
| Surrogate: Fluoranthene-d10 | 0.0188 | | " | 0.0333 | | 56.4 | 40-150 | | | | |

Summit Scientific

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

Project: Noble - Frico 06-14 Flowline
Project Number: UWRWE-A3593-ABN 31344
Project Manager: Jacob Whritenour

Reported:
10/09/24 08:50

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 BHJ0140 - EPA 3050B

Blank (BHJ0140-BLK1)

Prepared: 10/03/24 Analyzed: 10/08/24

Boron ND 2.00 mg/L

LCS (BHJ0140-BS1)

Prepared: 10/03/24 Analyzed: 10/08/24

Boron 5.28 2.00 mg/L 5.00 106 80-120

Duplicate (BHJ0140-DUP1)

Source: 2410041-01

Prepared: 10/03/24 Analyzed: 10/08/24

Boron 0.111 2.00 mg/L 0.166 39.9 20 QR-01

Matrix Spike (BHJ0140-MS1)

Source: 2410041-01

Prepared: 10/03/24 Analyzed: 10/08/24

Boron 5.48 2.00 mg/L 5.02 0.166 106 75-125

Matrix Spike Dup (BHJ0140-MSD1)

Source: 2410041-01

Prepared: 10/03/24 Analyzed: 10/08/24

Boron 5.60 2.00 mg/L 5.02 0.166 108 75-125 2.13 25

Summit Scientific

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

Project: Noble - Frico 06-14 Flowline
Project Number: UWRWE-A3593-ABN 31344
Project Manager: Jacob Whritenour

Reported:
10/09/24 08:50

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 BHJ0220 - EPA 3050B

Blank (BHJ0220-BLK1)

Prepared: 10/04/24 Analyzed: 10/07/24

| | | | |
|----------|----|--------|-----------|
| 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 (BHJ0220-BS1)

Prepared: 10/04/24 Analyzed: 10/07/24

| | | | | | | |
|----------|------|--------|-----------|------|------|--------|
| Arsenic | 39.7 | 0.200 | mg/kg wet | 38.2 | 104 | 80-120 |
| Barium | 39.4 | 0.400 | " | 38.2 | 103 | 80-120 |
| Cadmium | 1.80 | 0.200 | " | 1.91 | 94.3 | 80-120 |
| Copper | 38.7 | 0.400 | " | 38.2 | 101 | 80-120 |
| Lead | 18.3 | 0.200 | " | 19.1 | 96.0 | 80-120 |
| Nickel | 37.8 | 0.400 | " | 38.2 | 99.0 | 80-120 |
| Silver | 1.82 | 0.0200 | " | 1.91 | 95.2 | 80-120 |
| Zinc | 37.6 | 0.400 | " | 38.2 | 98.6 | 80-120 |
| Selenium | 4.07 | 0.260 | " | 3.82 | 107 | 80-120 |

Duplicate (BHJ0220-DUP1)

Source: 2410036-01

Prepared: 10/04/24 Analyzed: 10/07/24

| | | | | | | | |
|----------|--------|--------|-----------|--------|-------|----|-------|
| Arsenic | 2.65 | 0.200 | mg/kg dry | 2.76 | 3.84 | 20 | |
| Barium | 116 | 0.400 | " | 87.6 | 28.1 | 20 | QR-02 |
| Cadmium | 0.215 | 0.200 | " | 0.179 | 18.1 | 20 | |
| Copper | 5.14 | 0.400 | " | 5.29 | 2.79 | 20 | |
| Lead | 6.04 | 0.200 | " | 6.05 | 0.106 | 20 | |
| Nickel | 3.31 | 0.400 | " | 3.00 | 9.66 | 20 | |
| Silver | 0.0261 | 0.0200 | " | 0.0197 | 27.9 | 20 | QR-01 |
| Zinc | 14.3 | 0.400 | " | 14.4 | 0.877 | 20 | |
| Selenium | ND | 0.260 | " | ND | | 20 | |

Summit Scientific

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

Project: Noble - Frico 06-14 Flowline
Project Number: UWRWE-A3593-ABN 31344
Project Manager: Jacob Whritenour

Reported:
10/09/24 08:50

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 BHJ0220 - EPA 3050B

Matrix Spike (BHJ0220-MS1)

Source: 2410036-01

Prepared: 10/04/24 Analyzed: 10/07/24

| | | | | | | | | | | |
|----------|------|--------|-----------|------|--------|------|--------|--|--|-------|
| Arsenic | 43.8 | 0.179 | mg/kg dry | 40.0 | 2.76 | 103 | 75-125 | | | |
| Barium | 159 | 0.357 | " | 40.0 | 87.6 | 179 | 75-125 | | | QM-05 |
| Cadmium | 2.11 | 0.179 | " | 2.00 | 0.179 | 96.5 | 75-125 | | | |
| Copper | 44.2 | 0.357 | " | 40.0 | 5.29 | 97.2 | 75-125 | | | |
| Lead | 24.7 | 0.179 | " | 20.0 | 6.05 | 93.4 | 75-125 | | | |
| Nickel | 27.8 | 0.357 | " | 40.0 | 3.00 | 61.9 | 75-125 | | | QM-05 |
| Silver | 1.91 | 0.0179 | " | 2.00 | 0.0197 | 94.5 | 75-125 | | | |
| Zinc | 38.8 | 0.357 | " | 40.0 | 14.4 | 61.0 | 75-125 | | | QM-05 |
| Selenium | 3.52 | 0.232 | " | 4.00 | ND | 88.1 | 75-125 | | | |

Matrix Spike Dup (BHJ0220-MSD1)

Source: 2410036-01

Prepared: 10/04/24 Analyzed: 10/07/24

| | | | | | | | | | | |
|----------|------|--------|-----------|------|--------|------|--------|------|----|-------|
| Arsenic | 46.3 | 0.200 | mg/kg dry | 41.8 | 2.76 | 104 | 75-125 | 5.53 | 25 | |
| Barium | 135 | 0.400 | " | 41.8 | 87.6 | 113 | 75-125 | 16.5 | 25 | |
| Cadmium | 2.18 | 0.200 | " | 2.09 | 0.179 | 95.6 | 75-125 | 3.20 | 25 | |
| Copper | 45.8 | 0.400 | " | 41.8 | 5.29 | 96.9 | 75-125 | 3.54 | 25 | |
| Lead | 25.8 | 0.200 | " | 20.9 | 6.05 | 94.7 | 75-125 | 4.41 | 25 | |
| Nickel | 29.5 | 0.400 | " | 41.8 | 3.00 | 63.3 | 75-125 | 5.98 | 25 | QM-05 |
| Silver | 2.01 | 0.0200 | " | 2.09 | 0.0197 | 95.2 | 75-125 | 5.07 | 25 | |
| Zinc | 41.8 | 0.400 | " | 41.8 | 14.4 | 65.5 | 75-125 | 7.43 | 25 | QM-05 |
| Selenium | 3.84 | 0.260 | " | 4.18 | ND | 91.8 | 75-125 | 8.49 | 25 | |

Summit Scientific

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

Project: Noble - Frico 06-14 Flowline
Project Number: UWRWE-A3593-ABN 31344
Project Manager: Jacob Whritenour

Reported:
10/09/24 08:50

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 BHJ0159 - 3060A Mod

Blank (BHJ0159-BLK1)

Prepared & Analyzed: 10/03/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHJ0159-BS1)

Prepared & Analyzed: 10/03/24

Chromium, Hexavalent 26.4 0.30 mg/kg wet 25.0 105 80-120

Duplicate (BHJ0159-DUP1)

Source: 2410034-21

Prepared & Analyzed: 10/03/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHJ0159-MS1)

Source: 2410034-21

Prepared & Analyzed: 10/03/24

Chromium, Hexavalent 28.0 0.30 mg/kg dry 26.5 ND 106 75-125

Matrix Spike Dup (BHJ0159-MSD1)

Source: 2410034-21

Prepared & Analyzed: 10/03/24

Chromium, Hexavalent 27.8 0.30 mg/kg dry 26.5 ND 105 75-125 0.570 20

Summit Scientific

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

Project: Noble - Frico 06-14 Flowline
Project Number: UWRWE-A3593-ABN 31344
Project Manager: Jacob Whritenour

Reported:
10/09/24 08:50

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

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

Batch BHJ0165 - General Preparation

Blank (BHJ0165-BLK1)

Prepared: 10/03/24 Analyzed: 10/07/24

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

LCS (BHJ0165-BS1)

Prepared: 10/03/24 Analyzed: 10/07/24

| | | | | | | |
|-----------|------|--------|----------|------|------|--------|
| Calcium | 5.44 | 0.0500 | mg/L wet | 5.00 | 109 | 70-130 |
| Magnesium | 4.88 | 0.0500 | " | 5.00 | 97.6 | 70-130 |
| Sodium | 4.82 | 0.0500 | " | 5.00 | 96.3 | 70-130 |

Summit Scientific

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

Project: Noble - Frico 06-14 Flowline

Project Number: UWRWE-A3593-ABN 31344

Project Manager: Jacob Whritenour

Reported:
10/09/24 08:50

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

Summit Scientific

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

Batch BHJ0209 - General Preparation

Duplicate (BHJ0209-DUP1)

Source: 2410042-01

Prepared & Analyzed: 10/04/24

| | | | | | |
|----------|------|---|------|-------|----|
| % Solids | 92.5 | % | 92.8 | 0.416 | 20 |
|----------|------|---|------|-------|----|

Summit Scientific

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

Project: Noble - Frico 06-14 Flowline
Project Number: UWRWE-A3593-ABN 31344
Project Manager: Jacob Whritenour

Reported:
10/09/24 08:50

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 BHJ0166 - General Preparation

Blank (BHJ0166-BLK1)

Prepared: 10/03/24 Analyzed: 10/04/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHJ0166-BS1)

Prepared: 10/03/24 Analyzed: 10/04/24

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

Duplicate (BHJ0166-DUP1)

Source: 2410041-01

Prepared: 10/03/24 Analyzed: 10/04/24

Specific Conductance (EC) 0.196 0.0100 mmhos/cm 0.194 0.770 20

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Broomfield CO, 80020

Project: Noble - Frico 06-14 Flowline

Project Number: UWRWE-A3593-ABN 31344

Project Manager: Jacob Whritenour

Reported:
10/09/24 08:50

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

Summit Scientific

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

Batch BHJ0167 - General Preparation

LCS (BHJ0167-BS1)

Prepared: 10/03/24 Analyzed: 10/04/24

| | | | | | |
|----|------|----------|------|------|--------|
| pH | 9.17 | pH Units | 9.18 | 99.9 | 95-105 |
|----|------|----------|------|------|--------|

Duplicate (BHJ0167-DUP1)

Source: 2410041-01

Prepared: 10/03/24 Analyzed: 10/04/24

| | | | | | |
|----|------|----------|------|------|----|
| pH | 5.73 | pH Units | 5.83 | 1.73 | 20 |
|----|------|----------|------|------|----|

Summit Scientific

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Project: Noble - Frico 06-14 Flowline

Project Number: UWRWE-A3593-ABN 31344

Project Manager: Jacob Whritenour

Reported:
10/09/24 08:50

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. |
| QR-01 | Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values. |
| QM-05 | The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values. |
| DET | Analyte DETECTED |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| dry | Sample results reported on a dry weight basis |
| RPD | Relative Percent Difference |