

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 15, 2025

Andy Sagen

Tasman Geosciences

4725 Independence St.

Wheat Ridge, CO 80033

RE: Noble - Frico 37-15

Work Order #2504230

Enclosed are the results of analyses for samples received by Summit Scientific on 04/14/25 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

DRAFT REPORT

DATA SUBJECT TO CHANGE



Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Frico 37-15

Project Number: [none]  
Project Manager: Andy Sagen

**Reported:**  
04/15/25 07:01

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID   | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-------------|---------------|--------|----------------|----------------|
| BH04@9'-10' | 2504230-01    | Soil   | 04/14/25 13:15 | 04/14/25 16:30 |

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DRAFT REPORT

*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.*



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

|             |             |
|-------------|-------------|
| Lab ID      | Page 1 of 1 |
| 2504234 230 |             |

|                                      |   |  |
|--------------------------------------|---|--|
| Client: Noble/Tasman                 | <b>Send Data To:</b><br>Project Manager: Andy Sagen | <b>Send Invoice To:</b><br>Company: Noble/Tasman |
| Address: 4725 Independence St.       | E-Mail: tas-chevron-1@tasman-geo.com                | Project Name/Location: <i>Frico 37-15</i>        |
| City/State/Zip: Wheatridge/CO/ 80033 | RBUEUF27@Chevron.com                                | AFE#:  |
| Phone: 970/424-9162                  | Project Name: <i>Frico 37-15</i>                    | PO/Billing Codes:                                |
| Sampler Name: David Erwin            | Project Number:                                     | Contact: Dan Peterson                            |

| ID | Sample Description | Date Sampled   | Time Sampled | # of containers | Preservative |      |      |          | Matrix   |      |                | Analysis Requested |              |           |           |           |            | Special Instructions |             |                                |  |
|----|--------------------|----------------|--------------|-----------------|--------------|------|------|----------|----------|------|----------------|--------------------|--------------|-----------|-----------|-----------|------------|----------------------|-------------|--------------------------------|--|
|    |                    |                |              |                 | HCl          | HNO3 | None | Other    | Water    | Soil | Air-Canister # | Other              | Metals - 915 | VOC - 915 | TPH - 915 | PAH - 915 | SAR, EC pH |                      | Boron - HWS |                                |  |
| 1  | <i>BH0409-10</i>   | <i>4-14-25</i> | <i>1:15</i>  | <i>2</i>        |              |      |      | <i>X</i> | <i>X</i> |      |                |                    | <i>X</i>     | <i>X</i>  | <i>X</i>  | <i>X</i>  | <i>X</i>   | <i>X</i>             |             | SAR, EC, pH by saturated paste |  |
| 2  |                    |                |              |                 |              |      |      |          |          |      |                |                    |              |           |           |           |            |                      |             |                                |  |
| 3  |                    |                |              |                 |              |      |      |          |          |      |                |                    |              |           |           |           |            |                      |             |                                |  |
| 4  |                    |                |              |                 |              |      |      |          |          |      |                |                    |              |           |           |           |            |                      |             |                                |  |
| 5  |                    |                |              |                 |              |      |      |          |          |      |                |                    |              |           |           |           |            |                      |             |                                |  |
| 6  |                    |                |              |                 |              |      |      |          |          |      |                |                    |              |           |           |           |            |                      |             |                                |  |
| 7  |                    |                |              |                 |              |      |      |          |          |      |                |                    |              |           |           |           |            |                      |             |                                |  |
| 8  |                    |                |              |                 |              |      |      |          |          |      |                |                    |              |           |           |           |            |                      |             |                                |  |
| 9  |                    |                |              |                 |              |      |      |          |          |      |                |                    |              |           |           |           |            |                      |             |                                |  |
| 10 |                    |                |              |                 |              |      |      |          |          |      |                |                    |              |           |           |           |            |                      |             |                                |  |
| 11 |                    |                |              |                 |              |      |      |          |          |      |                |                    |              |           |           |           |            |                      |             |                                |  |
| 12 |                    |                |              |                 |              |      |      |          |          |      |                |                    |              |           |           |           |            |                      |             |                                |  |
| 13 |                    |                |              |                 |              |      |      |          |          |      |                |                    |              |           |           |           |            |                      |             |                                |  |
| 14 |                    |                |              |                 |              |      |      |          |          |      |                |                    |              |           |           |           |            |                      |             |                                |  |
| 15 |                    |                |              |                 |              |      |      |          |          |      |                |                    |              |           |           |           |            |                      |             |                                |  |

|                                     |                                 |  |                                 |  |             |  |
|-------------------------------------|---------------------------------|--|---------------------------------|--|-------------|--|
| Relinquished by: <i>[Signature]</i> | Date/Time: <i>4-14-25 15:30</i> | Received by: <i>Mead Satilite</i> /Tasman Lock Box | Date/Time: <i>4-14-25 15:30</i> | TAT Business Days                            | Field DO    | Notes:<br><i>BT EXN, TMBs<br/>and PAH on same day. All other analytes on 48hr Turn</i> |
| Relinquished by: <i>SZ</i>          | Date/Time: <i>4/14/25 1630</i>  | Received by: <i>[Signature]</i>                    | Date/Time: <i>4/14/25 1630</i>  | Same Day <input checked="" type="checkbox"/> | Field EC    |  |
|                                     |                                 |  |                                 | 1 Day  | Field ORP   |  |
|                                     |                                 |  |                                 | 2 Days                                       | Field pH    |  |
|                                     |                                 |  |                                 | 3 Days                                       | Field Temp. |  |
| Temperature Upon Receipt: <i>33</i> | Corrected Temperature: <i>6</i> | IR gun #:  |                                 | Standard                                     | Field Turb. |  |
|                                     |                                 |  |                                 | HNO3 lot #:                                  |             |  |





Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Frico 37-15

Project Number: [none]  
Project Manager: Andy Sagen

**Reported:**  
04/15/25 07:01

**BH04@9'-10'**  
**2504230-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/14/25 13:15**

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene                     | ND     | 0.0020          | mg/kg | 1        | BID0777 | 04/14/25 | 04/14/25 | EPA 8260B |       |
| Toluene                     | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene                | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total)             | ND     | 0.010           | "     | "        | "       | "        | "        | "         |       |
| 1,2,4-Trimethylbenzene      | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| 1,3,5-Trimethylbenzene      | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Naphthalene                 | ND     | 0.0038          | "     | "        | "       | "        | "        | "         |       |
| Gasoline Range Hydrocarbons | ND     | 0.50            | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/14/25 13:15**

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0364 | 91.0 %          | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0398 | 99.5 %          | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0400 | 100 %           | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/14/25 13:15**

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | BID0780 | 04/14/25 | 04/14/25 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/14/25 13:15**

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 7.44   | 59.6 %          | 50-140 |          | "     | "        | "        | "      |       |

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Frico 37-15

Project Number: [none]  
Project Manager: Andy Sagen

**Reported:**  
04/15/25 07:01

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

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

#### Batch BID0777 - EPA 5030 Soil MS

##### Blank (BID0777-BLK1)

Prepared: 04/14/25 Analyzed: 04/15/25

|   |        |        |       |        |  |      |        |  |  |  |
|---|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene                                 | ND     | 0.0020 | mg/kg |        |  |      |        |  |  |  |
| Toluene                                 | ND     | 0.0050 | "     |        |  |      |        |  |  |  |
| Ethylbenzene                            | ND     | 0.0050 | "     |        |  |      |        |  |  |  |
| Xylenes (total)                         | ND     | 0.010  | "     |        |  |      |        |  |  |  |
| 1,2,4-Trimethylbenzene                  | ND     | 0.0050 | "     |        |  |      |        |  |  |  |
| 1,3,5-Trimethylbenzene                  | ND     | 0.0050 | "     |        |  |      |        |  |  |  |
| Naphthalene                             | ND     | 0.0038 | "     |        |  |      |        |  |  |  |
| Gasoline Range Hydrocarbons             | ND     | 0.50   | "     |        |  |      |        |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0356 |        | "     | 0.0400 |  | 89.1 | 50-150 |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 0.0399 |        | "     | 0.0400 |  | 99.8 | 50-150 |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 0.0389 |        | "     | 0.0400 |  | 97.2 | 50-150 |  |  |  |

##### LCS (BID0777-BS1)

Prepared: 04/14/25 Analyzed: 04/15/25

|   |        |        |       |        |  |      |        |  |  |  |
|---|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene                                 | 0.107  | 0.0020 | mg/kg | 0.100  |  | 107  | 70-130 |  |  |  |
| Toluene                                 | 0.102  | 0.0050 | "     | 0.100  |  | 102  | 70-130 |  |  |  |
| Ethylbenzene                            | 0.104  | 0.0050 | "     | 0.100  |  | 104  | 70-130 |  |  |  |
| m,p-Xylene                              | 0.205  | 0.010  | "     | 0.200  |  | 102  | 70-130 |  |  |  |
| o-Xylene                                | 0.104  | 0.0050 | "     | 0.100  |  | 104  | 70-130 |  |  |  |
| 1,2,4-Trimethylbenzene                  | 0.106  | 0.0050 | "     | 0.100  |  | 106  | 70-130 |  |  |  |
| 1,3,5-Trimethylbenzene                  | 0.105  | 0.0050 | "     | 0.100  |  | 105  | 70-130 |  |  |  |
| Naphthalene                             | 0.0978 | 0.0038 | "     | 0.100  |  | 97.8 | 70-130 |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0356 |        | "     | 0.0400 |  | 89.0 | 50-150 |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 0.0397 |        | "     | 0.0400 |  | 99.2 | 50-150 |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 0.0391 |        | "     | 0.0400 |  | 97.8 | 50-150 |  |  |  |

##### Matrix Spike (BID0777-MS1)

Source: 2504230-01

Prepared: 04/14/25 Analyzed: 04/15/25

|   |        |        |       |        |    |      |        |  |  |  |
|---|--------|--------|-------|--------|----|------|--------|--|--|--|
| Benzene                                 | 0.0960 | 0.0020 | mg/kg | 0.100  | ND | 96.0 | 70-130 |  |  |  |
| Toluene                                 | 0.0899 | 0.0050 | "     | 0.100  | ND | 89.9 | 70-130 |  |  |  |
| Ethylbenzene                            | 0.0889 | 0.0050 | "     | 0.100  | ND | 88.9 | 70-130 |  |  |  |
| m,p-Xylene                              | 0.177  | 0.010  | "     | 0.200  | ND | 88.7 | 70-130 |  |  |  |
| o-Xylene                                | 0.0884 | 0.0050 | "     | 0.100  | ND | 88.4 | 70-130 |  |  |  |
| 1,2,4-Trimethylbenzene                  | 0.0899 | 0.0050 | "     | 0.100  | ND | 89.9 | 70-130 |  |  |  |
| 1,3,5-Trimethylbenzene                  | 0.0887 | 0.0050 | "     | 0.100  | ND | 88.7 | 70-130 |  |  |  |
| Naphthalene                             | 0.0818 | 0.0038 | "     | 0.100  | ND | 81.8 | 70-130 |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0366 |        | "     | 0.0400 |    | 91.6 | 50-150 |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 0.0400 |        | "     | 0.0400 |    | 99.9 | 50-150 |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 0.0391 |        | "     | 0.0400 |    | 97.8 | 50-150 |  |  |  |

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Frico 37-15

Project Number: [none]  
Project Manager: Andy Sagen

**Reported:**  
04/15/25 07:01

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

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

**Batch BID0777 - EPA 5030 Soil MS**

| <b>Matrix Spike Dup (BID0777-MSD1)</b>  | <b>Source: 2504230-01</b> |        |          | <b>Prepared: 04/14/25 Analyzed: 04/15/25</b> |    |             |               |       |    |  |
|---|---------------------------|--------|----------|--|----|-------------|---------------|-------|----|--|
| Benzene                                 | 0.0958                    | 0.0020 | mg/kg    | 0.100  | ND | 95.8        | 70-130        | 0.188 | 30 |  |
| Toluene                                 | 0.0895                    | 0.0050 | "        | 0.100  | ND | 89.5        | 70-130        | 0.435 | 30 |  |
| Ethylbenzene                            | 0.0900                    | 0.0050 | "        | 0.100  | ND | 90.0        | 70-130        | 1.24  | 30 |  |
| m,p-Xylene                              | 0.181                     | 0.010  | "        | 0.200  | ND | 90.6        | 70-130        | 2.09  | 30 |  |
| o-Xylene                                | 0.0894                    | 0.0050 | "        | 0.100  | ND | 89.4        | 70-130        | 1.05  | 30 |  |
| 1,2,4-Trimethylbenzene                  | 0.0867                    | 0.0050 | "        | 0.100  | ND | 86.7        | 70-130        | 3.64  | 30 |  |
| 1,3,5-Trimethylbenzene                  | 0.0875                    | 0.0050 | "        | 0.100  | ND | 87.5        | 70-130        | 1.29  | 30 |  |
| Naphthalene                             | 0.0786                    | 0.0038 | "        | 0.100  | ND | 78.6        | 70-130        | 4.04  | 30 |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0373</i>             |        | <i>"</i> | <i>0.0400</i>                                |    | <i>93.2</i> | <i>50-150</i> |       |    |  |
| <i>Surrogate: Toluene-d8</i>            | <i>0.0401</i>             |        | <i>"</i> | <i>0.0400</i>                                |    | <i>100</i>  | <i>50-150</i> |       |    |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>0.0395</i>             |        | <i>"</i> | <i>0.0400</i>                                |    | <i>98.7</i> | <i>50-150</i> |       |    |  |

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4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Frico 37-15

Project Number: [none]  
Project Manager: Andy Sagen

**Reported:**  
04/15/25 07:01

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BID0780 - EPA 3550A**

**Blank (BID0780-BLK1)**

Prepared: 04/14/25 Analyzed: 04/15/25

|                                |      |    |       |      |  |      |        |  |  |  |  |
|--------------------------------|------|----|-------|------|--|------|--------|--|--|--|--|
| C10-C28 (DRO)                  | ND   | 50 | mg/kg |      |  |      |        |  |  |  |  |
| C28-C36 (ORO)                  | ND   | 50 | "     |      |  |      |        |  |  |  |  |
| Surrogate: <i>o</i> -Terphenyl | 8.85 |    | "     | 12.5 |  | 70.8 | 50-140 |  |  |  |  |

**LCS (BID0780-BS1)**

Prepared: 04/14/25 Analyzed: 04/15/25

|                                |      |    |       |      |  |      |        |  |  |  |  |
|--------------------------------|------|----|-------|------|--|------|--------|--|--|--|--|
| C10-C28 (DRO)                  | 422  | 50 | mg/kg | 500  |  | 84.4 | 50-140 |  |  |  |  |
| Surrogate: <i>o</i> -Terphenyl | 9.90 |    | "     | 12.5 |  | 79.2 | 50-140 |  |  |  |  |

**Matrix Spike (BID0780-MS1)**

Source: 2504230-01

Prepared: 04/14/25 Analyzed: 04/15/25

|                                |      |    |       |      |    |      |        |  |  |  |  |
|--------------------------------|------|----|-------|------|----|------|--------|--|--|--|--|
| C10-C28 (DRO)                  | 447  | 50 | mg/kg | 500  | ND | 89.4 | 50-140 |  |  |  |  |
| Surrogate: <i>o</i> -Terphenyl | 10.3 |    | "     | 12.5 |    | 82.3 | 50-140 |  |  |  |  |

**Matrix Spike Dup (BID0780-MSD1)**

Source: 2504230-01

Prepared: 04/14/25 Analyzed: 04/15/25

|                                |      |    |       |      |    |      |        |      |    |  |  |
|--------------------------------|------|----|-------|------|----|------|--------|------|----|--|--|
| C10-C28 (DRO)                  | 416  | 50 | mg/kg | 500  | ND | 83.2 | 50-140 | 7.22 | 20 |  |  |
| Surrogate: <i>o</i> -Terphenyl | 9.99 |    | "     | 12.5 |    | 79.9 | 50-140 |      |    |  |  |

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: Noble - Frico 37-15

Project Number: [none]  
Project Manager: Andy Sagen

**Reported:**  
04/15/25 07:01

### Notes and Definitions

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