

**TABLE 1  
SOIL SAMPLE LOCATIONS  
NOBLE ENERGY, INC. - Boos 20-25 Wellhead**

| Soil Sample ID | Date     | PID (ppm) | Visual      | Olfactory      | Sample Type (Grab/Lab) | Latitude <sup>1</sup> | Longitude     | PDOP |
|----------------|----------|-----------|-------------|----------------|------------------------|-----------------------|---------------|------|
| GS01@0-6"      | 05/20/24 | 8.1       | No Staining | Slight HC Odor | Grab                   | 40.27888421           | -104.83476949 | 1    |
| GS02@0-6"      | 05/20/24 | 0.5       | No Staining | No Odor        | Grab                   | 40.27861178           | -104.83466398 | 1    |
| GS03@0-6"      | 05/20/24 | 0.0       | No Staining | No Odor        | Grab                   | 40.27840095           | -104.83466154 | 0.8  |
| GS04@0-6"      | 05/20/24 | 0.1       | No Staining | No Odor        | Grab                   | 40.27842202           | -104.83481425 | 0.9  |
| GS05@0-6"      | 05/20/24 | 0.9       | No Staining | No Odor        | Grab                   | 40.27861521           | -104.83480600 | 1.1  |
| GS06@0-6"      | 05/20/24 | 0.8       | No Staining | No Odor        | Grab                   | 40.2786275            | -104.83499431 | 1    |
| GS07@0-6"      | 05/20/24 | 0.5       | No Staining | No Odor        | Grab                   | 40.27850328           | -104.83506507 | 0.9  |
| GS08@0-6"      | 05/20/24 | 0.5       | No Staining | No Odor        | Grab                   | 40.27876288           | -104.83517259 | 1.2  |
| GS09@0-6"      | 05/20/24 | 0.3       | No Staining | No Odor        | Grab                   | 40.2788629            | -104.83528838 | 0.8  |
| GS10@0-6"      | 05/20/24 | 0.4       | No Staining | No Odor        | Grab                   | 40.2790369            | -104.83525896 | 1    |
| GS11@0-6"      | 05/20/24 | 0.6       | No Staining | No Odor        | Grab                   | 40.27917334           | -104.83509552 | 1    |
| GS12@0-6"      | 05/20/24 | 0.8       | No Staining | No Odor        | Grab                   | 40.27925804           | -104.83492415 | 0.9  |
| GS13@0-6"      | 05/20/24 | 8.6       | No Staining | Slight HC Odor | Grab                   | 40.27925315           | -104.83468235 | 0.9  |
| GS14@0-6"      | 05/20/24 | 0.5       | No Staining | No Odor        | Grab                   | 40.2794101            | -104.83466139 | 0.9  |
| GS15@0-6"      | 05/20/24 | 2.1       | No Staining | No Odor        | Grab                   | 40.27932551           | -104.83437519 | 0.7  |
| GS16@0-6"      | 05/20/24 | 0.6       | No Staining | No Odor        | Grab                   | 40.2790766            | -104.83426673 | 0.9  |
| GS17@0-6"      | 05/20/24 | 0.5       | No Staining | No Odor        | Grab                   | 40.27884748           | -104.83429314 | 0.8  |
| GS18@0-6"      | 05/20/24 | 0.6       | No Staining | No Odor        | Grab                   | 40.27867039           | -104.83432172 | 0.8  |
| GS19@0-6"      | 05/20/24 | 0.8       | No Staining | No Odor        | Grab                   | 40.27944389           | -104.83493838 | 0.7  |
| GS20@0-6"      | 05/20/24 | 8.8       | No Staining | Slight HC Odor | Grab                   | 40.27930671           | -104.83465598 | 0.8  |
| WC01@0-6"      | 05/20/24 | 1,516     | HC Staining | HC Odor        | Lab                    | 40.27887327           | -104.83483989 | 0.9  |

Notes:

- PID = Photoionization detector
- ppm = parts per million
- PDOP = Position dilution of precision
- HC = Hydrocarbon
- NC = Not Collected

1.) Latitude and longitude coordinates will be provided in decimal degrees with an accuracy and precision of 5 decimals of a degree using the North American Datum ("NAD") of 1983

TABLE 2  
SOIL ANALYTICAL DATA  
NOBLE ENERGY, INC. - Boos 20-25 Wellhead

| Soil Sample ID                               | Date      | <sup>1</sup> Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Total Xylenes (mg/kg) | 1,2,4 - TMB (mg/kg) | 1,3,5 - TMB (mg/kg) | Naphthalene (mg/kg) | TPH-GRO (mg/kg) | TPH-DRO (mg/kg) | TPH-ORO (mg/kg) | Acenaphthene (mg/kg) | Anthracene (mg/kg) | Benz(a) (mg/kg) | Benzo(a) (mg/kg) | Benzo(b) (mg/kg) | Benzo(k) (mg/kg) | Chrysene (mg/kg) | A,H (mg/kg) | Fluoranthene (mg/kg) | Fluorene (mg/kg) | 1,2,3-CD (mg/kg) | Pyrene (mg/kg) | 1-M (mg/kg) | 2-M (mg/kg) |
|--|-----------|------------------------------|-----------------|----------------------|-----------------------|---------------------|---------------------|---------------------|-----------------|-----------------|-----------------|----------------------|--------------------|-----------------|------------------|------------------|------------------|------------------|-------------|----------------------|------------------|------------------|----------------|-------------|-------------|
| Residential SSL <sup>2</sup>                 |           | 1.2                          | 490             | 5.8                  | 58                    | 30                  | 27                  | 2                   | 500             |                 |                 | 360                  | 1,800              | 1.1             | 0.11             | 1.1              | 11               | 110              | 0.11        | 240                  | 240              | 1.1              | 180            | 18          | 24          |
| Protection of Groundwater SSL <sup>2,3</sup> |           | 0.0026                       | 0.69            | 0.78                 | 9.9                   | 0.0081              | 0.0087              | 0.0038              | 500             |                 |                 | 0.55                 | 6                  | 0.011           | 0.24             | 0.3              | 2.9              | 9                | 0.096       | 8.9                  | 0.54             | 0.98             | 1.3            | 0.006       | 0.019       |
| WC01@0-6"                                    | 5/20/2024 | 2.1                          | <0.0050         | <0.0050              | <0.010                | <0.0050             | 11                  | 2.2                 | 4400            | 11000           | 1400            | RP                   | RP                 | RP              | RP               | RP               | RP               | RP               | RP          | RP                   | RP               | RP               | RP             | RP          | RP          |

| Soil Sample ID               | Date      | pH      | SAR | EC (mmhos/cm) | Boron (mg/L) |
|------------------------------|-----------|---------|-----|---------------|--------------|
| Residential SSL <sup>2</sup> |           | 6 - 8.3 | <6  | <4mmhos/cm    | 2            |
| WC01@0-6"                    | 5/20/2024 | RP      | RP  | RP            | RP           |

| Soil Sample ID                               | Date      | Arsenic (mg/kg) | Barium (mg/kg) | Cadmium (mg/kg) | Chromium (VI) (mg/kg) | Copper (mg/kg) | Lead (mg/kg) | Nickel (mg/kg) | Selenium (mg/kg) | Silver (mg/kg) | Zinc (mg/kg) |
|--|-----------|-----------------|----------------|-----------------|-----------------------|----------------|--------------|----------------|------------------|----------------|--------------|
| Residential SSL <sup>2</sup>                 |           | 0.68            | 15,000         | 71              | 0.3                   | 3,100          | 400          | 1,500          | 390              | 390            | 23,000       |
| Protection of Groundwater SSL <sup>2,3</sup> |           | 0.29            | 82             | 0.38            | 0.00067               | 46             | 14           | 26             | 0.26             | 0.8            | 370          |
| WC01@0-6"                                    | 5/20/2024 | RP              | RP             | RP              | RP                    | RP             | RP           | RP             | RP               | RP             | RP           |

Notes:

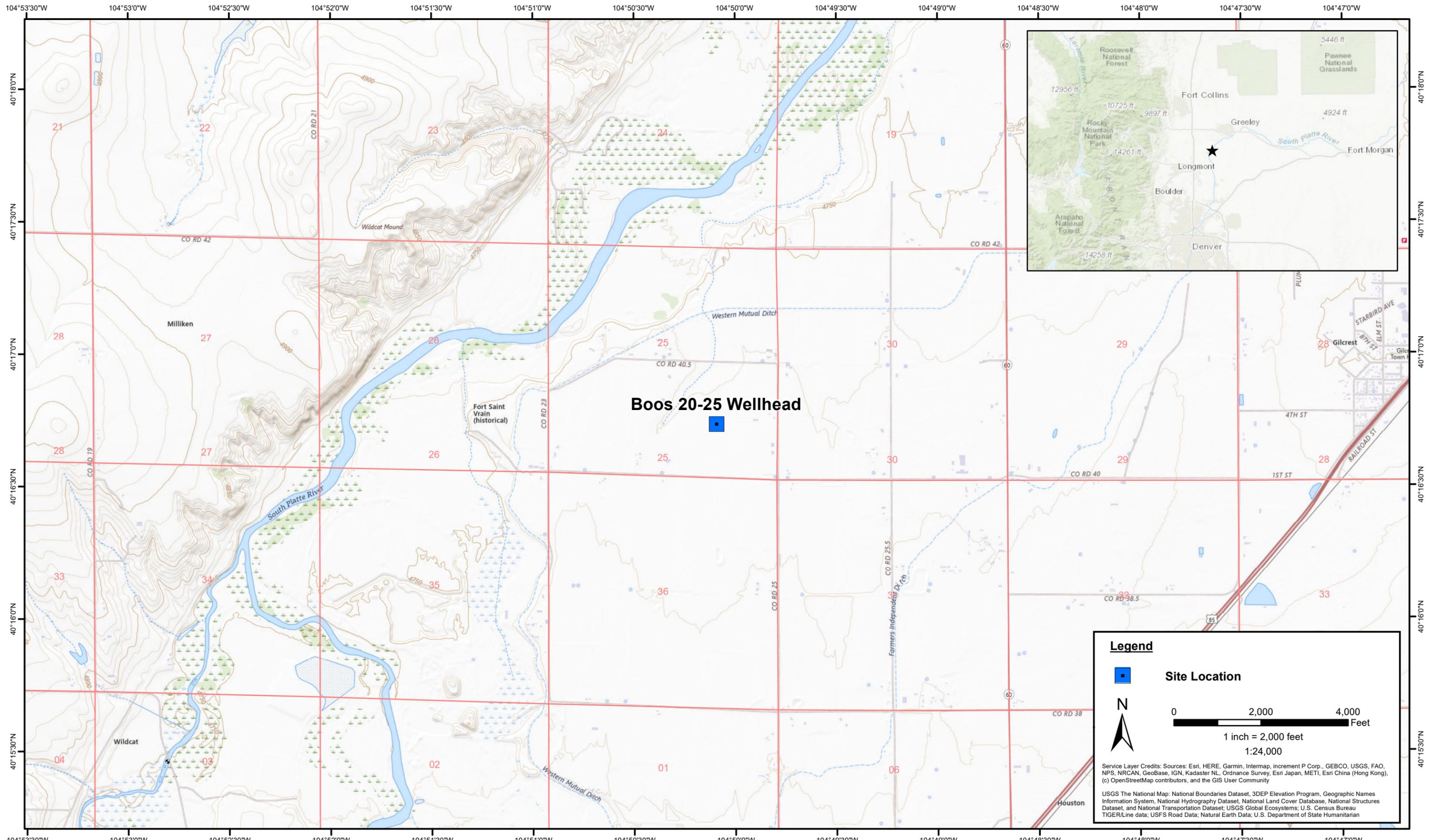
- Compounds referenced from 2 CCR 404-1, Table 915-1, effective January 15, 2021.
- Soil Screening Levels (SSL) referenced from EPA Regional Screening Levels (EPA RSLs) for Chemical Contaminants at Superfund Sites, effective November 2020.
- SSLs are applicable if a pathway for communication with groundwater is present.

Definitions:

ECMC = Energy and Carbon Management Commission  
 TPH-GRO = Total petroleum hydrocarbons - gasoline range organics  
 TPH-DRO = Total petroleum hydrocarbons - diesel range organics  
 TPH-ORO = Total petroleum hydrocarbons - oil range organics  
 mg/kg = Milligrams per kilogram  
 SAR = Sodium Adsorption Ratio  
 EC = Electrical Conductivity  
 mmhos/cm = Millimhos per centimeter  
 mg/L = Milligrams per liter  
 < = Analytical result is less than the indicated laboratory reporting limit

RP = Results pending  
 1,2,4 - TMB = 1,2,4 Trimethylbenzene  
 1,3,5 - TMB = 1,3,5 Trimethylbenzene  
 Benz(a) = Benzo(a)anthracene  
 Benzo(b) = Benzo(b)fluoranthene  
 Benzo(k) = Benzo(k)fluoranthene  
 Benzo(a) = Benzo(a)pyrene  
 A,H = Dibenzo(a,h)anthracene  
 1,2,3-CD = Indeno(1,2,3-cd)pyrene  
 1-M = 1-methylnaphthalene  
 2-M = 2-methylnaphthalene  
 NA = Not analyzed

Highlighted results are equal to or exceed the ECMC Table 915-1 standard



**Legend**

**Site Location**

N

0 2,000 4,000 Feet

1 inch = 2,000 feet  
1:24,000

Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road Data; Natural Earth Data; U.S. Department of State Humanitarian

|              |               |
|--------------|---------------|
| DATE:        | May 2024      |
| DESIGNED BY: | J. Whritenour |
| DRAWN BY:    | L. Reed       |



**Tasman, Inc.**  
6855 W. 119th Ave  
Broomfield, CO 80020

**PDC Energy, Inc. – DJ Basin**  
**Boos 20-25 Wellhead**  
SWSE Sec. 25-T4N-R67W  
Weld County, Colorado

Site Location Map

Figure  
1



DATE: May 20, 2024

DESIGNED BY: C. Hamlin

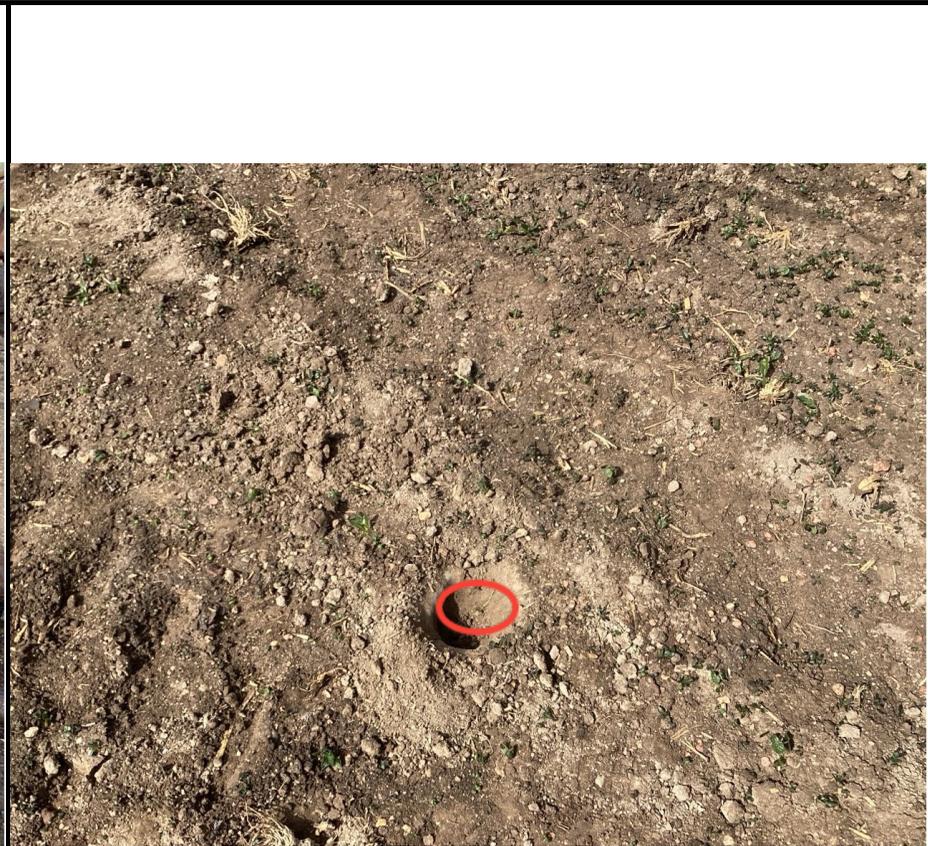
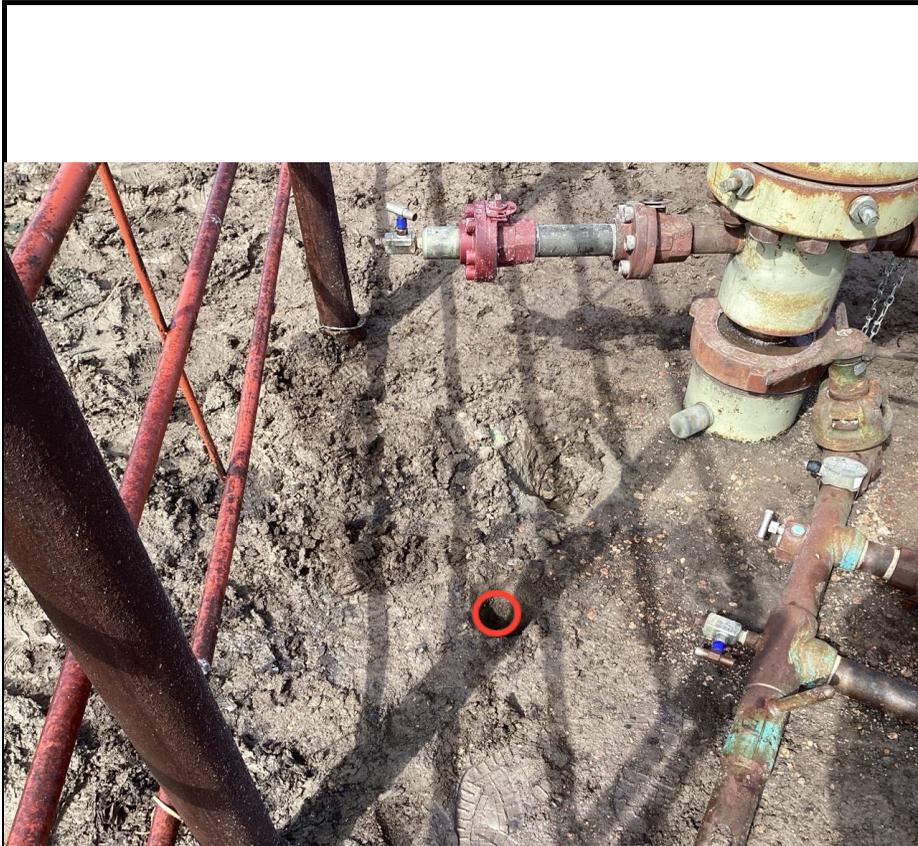
DRAWN BY: L. Reed

**Tasman, Inc.**  
 6855 W. 119<sup>th</sup> Ave.  
 Broomfield, CO 80020

**Noble Energy, Inc. – DJ Basin**  
**Boos 20-25 Wellhead**  
 SWSE, Section 25, Township 4 North, Range 67 West  
 Weld County, Colorado

Soil Sample Location Map  
 (05/20/2024)

FIGURE  
 2



|                                      |                |                        |  |
|--------------------------------------|----------------|------------------------|--|
| <b>Equipment ID:</b>                 |                | <b>Equipment Type:</b> |  |
| <b>Material:</b>                     | <b>Volume:</b> | <b>Contents:</b>       |  |
| <b>Notes/Conditions:</b> WC01 @ 0-6" |                |                        |  |

|                                      |                |                        |  |
|--------------------------------------|----------------|------------------------|--|
| <b>Equipment ID:</b>                 |                | <b>Equipment Type:</b> |  |
| <b>Material:</b>                     | <b>Volume:</b> | <b>Contents:</b>       |  |
| <b>Notes/Conditions:</b> GS01 @ 0-6" |                |                        |  |



|                                      |                |                        |  |                                      |                |                        |  |
|--------------------------------------|----------------|------------------------|--|--------------------------------------|----------------|------------------------|--|
| <b>Equipment ID:</b>                 |                | <b>Equipment Type:</b> |  | <b>Equipment ID:</b>                 |                | <b>Equipment Type:</b> |  |
| <b>Material:</b>                     | <b>Volume:</b> | <b>Contents:</b>       |  | <b>Material:</b>                     | <b>Volume:</b> | <b>Contents:</b>       |  |
| <b>Notes/Conditions:</b> GS02 @ 0-6" |                |                        |  | <b>Notes/Conditions:</b> GS03 @ 0-6" |                |                        |  |

|   |                |                  |  |                |                  |
|---|----------------|------------------|--|----------------|------------------|
|  |                |                  |  |                |                  |
|   |                |                  |  |                |                  |
| <b>Material:</b>  | <b>Volume:</b> | <b>Contents:</b> | <b>Material:</b>   | <b>Volume:</b> | <b>Contents:</b> |
| <b>Notes/Conditions:</b> GS04 @ 0-6"  |                |                  | <b>Notes/Conditions:</b> GS05 @ 0-6"   |                |                  |



|  |                |                        |  |  |                |                        |  |
|--|----------------|------------------------|--|--|----------------|------------------------|--|
| <b>Equipment ID:</b>                     |                | <b>Equipment Type:</b> |  | <b>Equipment ID:</b>                     |                | <b>Equipment Type:</b> |  |
| <b>Material:</b>                         | <b>Volume:</b> | <b>Contents:</b>       |  | <b>Material:</b>                         | <b>Volume:</b> | <b>Contents:</b>       |  |
| <b>Notes/Conditions:</b> <sup>GS06</sup> |                |                        |  | <b>Notes/Conditions:</b> <sup>GS07</sup> |                |                        |  |

|   |  |                |  |  |  |   |
|---|--|----------------|--|--|--|---|
|  |  |                |  |  |  |   |
|   |  |                |  |  |  | <b>Equipment ID:</b> <b>Equipment Type:</b> |
| <b>Material:</b>  |  | <b>Volume:</b> | <b>Contents:</b>   |  | <b>Notes/Conditions:</b> <sup>GS08</sup> |   |
| <b>Equipment ID:</b> <b>Equipment Type:</b>   |  |                | <b>Material:</b> <b>Volume:</b> <b>Contents:</b>                                     |  | <b>Notes/Conditions:</b> <sup>GS09</sup> |   |

|   |                |                  |  |  |                        |
|---|----------------|------------------|--|--|------------------------|
|  |                |                  |  |  |                        |
|   |                |                  |  |  |                        |
| <b>Material:</b>  | <b>Volume:</b> | <b>Contents:</b> | <b>Equipment ID:</b>   |  | <b>Equipment Type:</b> |
| <b>Notes/Conditions:</b> <sup>GS10</sup>  |                |                  | <b>Notes/Conditions:</b> <sup>GS11</sup>   |  |                        |



|  |                |                        |  |
|--|----------------|------------------------|--|
| <b>Equipment ID:</b>                     |                | <b>Equipment Type:</b> |  |
| <b>Material:</b>                         | <b>Volume:</b> | <b>Contents:</b>       |  |
| <b>Notes/Conditions:</b> <sup>GS12</sup> |                |                        |  |

|  |                |                        |  |
|--|----------------|------------------------|--|
| <b>Equipment ID:</b>                     |                | <b>Equipment Type:</b> |  |
| <b>Material:</b>                         | <b>Volume:</b> | <b>Contents:</b>       |  |
| <b>Notes/Conditions:</b> <sup>GS13</sup> |                |                        |  |

|   |                |                        |  |                |                        |
|---|----------------|------------------------|--|----------------|------------------------|
|  |                |                        |  |                |                        |
| <b>Equipment ID:</b>  |                | <b>Equipment Type:</b> | <b>Equipment ID:</b>   |                | <b>Equipment Type:</b> |
| <b>Material:</b>  | <b>Volume:</b> | <b>Contents:</b>       | <b>Material:</b>   | <b>Volume:</b> | <b>Contents:</b>       |
| <b>Notes/Conditions:</b> <small>GS14</small>  |                |                        | <b>Notes/Conditions:</b>   |                |                        |

|   |                |                        |  |                |                        |
|---|----------------|------------------------|--|----------------|------------------------|
|   |                |                        |  |                |                        |
|  |                |                        |  |                |                        |
| <b>Equipment ID:</b>  |                | <b>Equipment Type:</b> | <b>Equipment ID:</b>   |                | <b>Equipment Type:</b> |
| <b>Material:</b>  | <b>Volume:</b> | <b>Contents:</b>       | <b>Material:</b>   | <b>Volume:</b> | <b>Contents:</b>       |
| <b>Notes/Conditions:</b> <sup>GS16</sup>  |                |                        | <b>Notes/Conditions:</b> <sup>GS17</sup>   |                |                        |

|   |                |                        |  |                |                        |
|---|----------------|------------------------|--|----------------|------------------------|
|  |                |                        |  |                |                        |
| <b>Equipment ID:</b>  |                | <b>Equipment Type:</b> | <b>Equipment ID:</b>   |                | <b>Equipment Type:</b> |
| <b>Material:</b>  | <b>Volume:</b> | <b>Contents:</b>       | <b>Material:</b>   | <b>Volume:</b> | <b>Contents:</b>       |
| <b>Notes/Conditions:</b> <sup>GS18</sup>  |                |                        | <b>Notes/Conditions:</b> <sup>GS19</sup>   |                |                        |



|  |                |                        |  |                          |                |                        |  |
|--|----------------|------------------------|--|--------------------------|----------------|------------------------|--|
| <b>Equipment ID:</b>                     |                | <b>Equipment Type:</b> |  | <b>Equipment ID:</b>     |                | <b>Equipment Type:</b> |  |
| <b>Material:</b>                         | <b>Volume:</b> | <b>Contents:</b>       |  | <b>Material:</b>         | <b>Volume:</b> | <b>Contents:</b>       |  |
| <b>Notes/Conditions:</b> <sup>GS20</sup> |                |                        |  | <b>Notes/Conditions:</b> |                |                        |  |

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 21, 2024

Jacob Whritenour  
Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield, CO 80020  
RE: Noble - Boos 20-25 Wellhead  
Work Order #2405308

Enclosed are the results of analyses for samples received by Summit Scientific on 05/20/24 17:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

DRAFT REPORT  
DATA SUBJECT TO CHANGE



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

Project: Noble - Boos 20-25 Wellhead

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
05/21/24 07:20

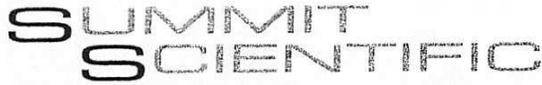
**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| WC01@0-6" | 2405308-01    | Soil   | 05/20/24 09:40 | 05/20/24 17:35 |

---

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 |
| 2405308 |             |

|                                      |  |   |  |
|--------------------------------------|--|---|--|
| Send Data To:                        |  | Send Invoice To:                                  |  |
| Client: Noble/Tasman                 | Project Manager: Jake Whritenour         | Company: Chevron                                  |  |
| Address: 6855 W. 119th Ave.          | E-Mail: Jwhritenour@tasman-geo.com       | Project Name/Location: <i>Boos 20-25 wellhead</i> |  |
| City/State/Zip: Broomfield/CO/ 80020 |  | AFE#:   |  |
| Phone: (317) 445-0601                | Project Name: <i>Boos 20-25 Wellhead</i> | PO/Billing Codes:                                 |  |
| Sampler Name: Luke Moran             | 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 | HOLD |                                |  |  |
| 1  | <i>WCO1 00-6"</i>  | <i>5/20/24</i> | <i>0940</i>  | <i>2</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>Luke Moran</i>      | Date/Time: <i>5/20/24 1415</i>  | Received by: <b>Tasman Lock Box</b> | Date/Time: <i>5/20/24 1415</i> | TAT Business Days                            | Field DO    | Notes: |
|   |                                 |                                     |                                | Same Day <input checked="" type="checkbox"/> | Field EC    |        |
| Relinquished by: <i>Tasman Lock Box</i> | Date/Time: <i>5/20/24 1735</i>  | Received by: <i>[Signature]</i>     | Date/Time: <i>5/20/24 1735</i> | 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: <i>8.7</i>    | Corrected Temperature: <i>8</i> | IR gun #:                           | HNO3 lot #:                    |  |             |        |





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

Project: Noble - Boos 20-25 Wellhead

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
05/21/24 07:20

**WC01@0-6"**  
**2405308-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/20/24 09:40**

| Analyte                            | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------------------------|-------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Benzene</b>                     | <b>2.1</b>  | 0.020           | mg/kg | 10       | BHE0625 | 05/20/24 | 05/21/24 | EPA 8260B |       |
| Toluene                            | ND          | 0.0050          | "     | 1        | "       | "        | "        | "         |       |
| Ethylbenzene                       | ND          | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total)                    | ND          | 0.010           | "     | "        | "       | "        | "        | "         |       |
| 1,2,4-Trimethylbenzene             | ND          | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| <b>1,3,5-Trimethylbenzene</b>      | <b>11</b>   | 0.050           | "     | 10       | "       | "        | "        | "         | E     |
| <b>Naphthalene</b>                 | <b>2.2</b>  | 0.038           | "     | "        | "       | "        | "        | "         |       |
| <b>Gasoline Range Hydrocarbons</b> | <b>4400</b> | 5.0             | "     | "        | "       | "        | "        | "         | E     |

Date Sampled: **05/20/24 09:40**

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0547 | 137 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0478 | 119 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.484  | 1210 %          | 50-150 |          | "     | "        | "        | "      | S-02  |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/20/24 09:40**

| Analyte              | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>C10-C28 (DRO)</b> | <b>11000</b> | 50              | mg/kg | 1        | BHE0627 | 05/20/24 | 05/21/24 | EPA 8015M |       |
| <b>C28-C36 (ORO)</b> | <b>1400</b>  | 50              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **05/20/24 09:40**

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 21.9   | 175 %           | 30-150 |          | "     | "        | "        | "      | S-02  |

DRAFT REPORT

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

Project: Noble - Boos 20-25 Wellhead

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
05/21/24 07:20

### 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 BHE0625 - EPA 5030 Soil MS

##### Blank (BHE0625-BLK1)

Prepared: 05/20/24 Analyzed: 05/21/24

|   |        |        |       |        |  |     |        |  |  |  |
|---|--------|--------|-------|--------|--|-----|--------|--|--|--|
| 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   | "     |        |  |     |        |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0432 |        | "     | 0.0400 |  | 108 | 50-150 |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 0.0414 |        | "     | 0.0400 |  | 104 | 50-150 |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 0.0408 |        | "     | 0.0400 |  | 102 | 50-150 |  |  |  |

##### LCS (BHE0625-BS1)

Prepared: 05/20/24 Analyzed: 05/21/24

|   |        |        |       |        |  |      |        |  |  |  |
|---|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene                                 | 0.108  | 0.0020 | mg/kg | 0.100  |  | 108  | 70-130 |  |  |  |
| Toluene                                 | 0.102  | 0.0050 | "     | 0.100  |  | 102  | 70-130 |  |  |  |
| Ethylbenzene                            | 0.109  | 0.0050 | "     | 0.100  |  | 109  | 70-130 |  |  |  |
| m,p-Xylene                              | 0.184  | 0.010  | "     | 0.200  |  | 92.2 | 70-130 |  |  |  |
| o-Xylene                                | 0.0844 | 0.0050 | "     | 0.100  |  | 84.4 | 70-130 |  |  |  |
| 1,2,4-Trimethylbenzene                  | 0.0920 | 0.0050 | "     | 0.100  |  | 92.0 | 70-130 |  |  |  |
| 1,3,5-Trimethylbenzene                  | 0.0944 | 0.0050 | "     | 0.100  |  | 94.4 | 70-130 |  |  |  |
| Naphthalene                             | 0.108  | 0.0038 | "     | 0.100  |  | 108  | 70-130 |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0438 |        | "     | 0.0400 |  | 110  | 50-150 |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 0.0434 |        | "     | 0.0400 |  | 108  | 50-150 |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 0.0391 |        | "     | 0.0400 |  | 97.7 | 50-150 |  |  |  |

##### Matrix Spike (BHE0625-MS1)

Source: 2405303-01

Prepared: 05/20/24 Analyzed: 05/21/24

|   |        |        |       |        |    |      |        |  |  |  |
|---|--------|--------|-------|--------|----|------|--------|--|--|--|
| Benzene                                 | 0.113  | 0.0020 | mg/kg | 0.100  | ND | 113  | 70-130 |  |  |  |
| Toluene                                 | 0.105  | 0.0050 | "     | 0.100  | ND | 105  | 70-130 |  |  |  |
| Ethylbenzene                            | 0.106  | 0.0050 | "     | 0.100  | ND | 106  | 70-130 |  |  |  |
| m,p-Xylene                              | 0.177  | 0.010  | "     | 0.200  | ND | 88.6 | 70-130 |  |  |  |
| o-Xylene                                | 0.0810 | 0.0050 | "     | 0.100  | ND | 81.0 | 70-130 |  |  |  |
| 1,2,4-Trimethylbenzene                  | 0.0857 | 0.0050 | "     | 0.100  | ND | 85.7 | 70-130 |  |  |  |
| 1,3,5-Trimethylbenzene                  | 0.0892 | 0.0050 | "     | 0.100  | ND | 89.2 | 70-130 |  |  |  |
| Naphthalene                             | 0.0875 | 0.0038 | "     | 0.100  | ND | 87.5 | 70-130 |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0466 |        | "     | 0.0400 |    | 117  | 50-150 |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 0.0446 |        | "     | 0.0400 |    | 111  | 50-150 |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 0.0400 |        | "     | 0.0400 |    | 100  | 50-150 |  |  |  |

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - Boos 20-25 Wellhead

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
05/21/24 07:20

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

**Summit Scientific**

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

**Batch BHE0625 - EPA 5030 Soil MS**

| Matrix Spike Dup (BHE0625-MSD1)  | Source: 2405303-01 |        |       | Prepared: 05/20/24 Analyzed: 05/21/24 |    |      |        |      |    |
|----------------------------------|--------------------|--------|-------|---------------------------------------|----|------|--------|------|----|
| Benzene                          | 0.0947             | 0.0020 | mg/kg | 0.100                                 | ND | 94.7 | 70-130 | 17.3 | 30 |
| Toluene                          | 0.0879             | 0.0050 | "     | 0.100                                 | ND | 87.9 | 70-130 | 17.8 | 30 |
| Ethylbenzene                     | 0.0947             | 0.0050 | "     | 0.100                                 | ND | 94.7 | 70-130 | 10.9 | 30 |
| m,p-Xylene                       | 0.158              | 0.010  | "     | 0.200                                 | ND | 79.1 | 70-130 | 11.4 | 30 |
| o-Xylene                         | 0.0716             | 0.0050 | "     | 0.100                                 | ND | 71.6 | 70-130 | 12.3 | 30 |
| 1,2,4-Trimethylbenzene           | 0.0739             | 0.0050 | "     | 0.100                                 | ND | 73.9 | 70-130 | 14.8 | 30 |
| 1,3,5-Trimethylbenzene           | 0.0768             | 0.0050 | "     | 0.100                                 | ND | 76.8 | 70-130 | 15.0 | 30 |
| Naphthalene                      | 0.0709             | 0.0038 | "     | 0.100                                 | ND | 70.9 | 70-130 | 21.0 | 30 |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0435             |        | "     | 0.0400                                |    | 109  | 50-150 |      |    |
| Surrogate: Toluene-d8            | 0.0431             |        | "     | 0.0400                                |    | 108  | 50-150 |      |    |
| Surrogate: 4-Bromofluorobenzene  | 0.0398             |        | "     | 0.0400                                |    | 99.4 | 50-150 |      |    |

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - Boos 20-25 Wellhead

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
05/21/24 07:20

**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 BHE0627 - EPA 3550A**

**Blank (BHE0627-BLK1)**

Prepared: 05/20/24 Analyzed: 05/21/24

|                                |      |    |       |      |  |      |        |  |  |  |  |
|--------------------------------|------|----|-------|------|--|------|--------|--|--|--|--|
| C10-C28 (DRO)                  | ND   | 50 | mg/kg |      |  |      |        |  |  |  |  |
| C28-C36 (ORO)                  | ND   | 50 | "     |      |  |      |        |  |  |  |  |
| Surrogate: <i>o</i> -Terphenyl | 11.5 |    | "     | 12.5 |  | 91.6 | 30-150 |  |  |  |  |

**LCS (BHE0627-BS1)**

Prepared: 05/20/24 Analyzed: 05/21/24

|                                |      |    |       |      |  |      |        |  |  |  |  |
|--------------------------------|------|----|-------|------|--|------|--------|--|--|--|--|
| C10-C28 (DRO)                  | 537  | 50 | mg/kg | 500  |  | 107  | 70-130 |  |  |  |  |
| Surrogate: <i>o</i> -Terphenyl | 11.7 |    | "     | 12.5 |  | 93.6 | 30-150 |  |  |  |  |

**Matrix Spike (BHE0627-MS1)**

Source: 2405303-01

Prepared: 05/20/24 Analyzed: 05/21/24

|                                |      |    |       |      |    |      |        |  |  |  |  |
|--------------------------------|------|----|-------|------|----|------|--------|--|--|--|--|
| C10-C28 (DRO)                  | 477  | 50 | mg/kg | 500  | ND | 95.4 | 70-130 |  |  |  |  |
| Surrogate: <i>o</i> -Terphenyl | 10.7 |    | "     | 12.5 |    | 85.7 | 30-150 |  |  |  |  |

**Matrix Spike Dup (BHE0627-MSD1)**

Source: 2405303-01

Prepared: 05/20/24 Analyzed: 05/21/24

|                                |      |    |       |      |    |      |        |      |    |  |  |
|--------------------------------|------|----|-------|------|----|------|--------|------|----|--|--|
| C10-C28 (DRO)                  | 504  | 50 | mg/kg | 500  | ND | 101  | 70-130 | 5.59 | 20 |  |  |
| Surrogate: <i>o</i> -Terphenyl | 11.2 |    | "     | 12.5 |    | 89.6 | 30-150 |      |    |  |  |

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Broomfield CO, 80020

Project: Noble - Boos 20-25 Wellhead

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
05/21/24 07:20

### Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- 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