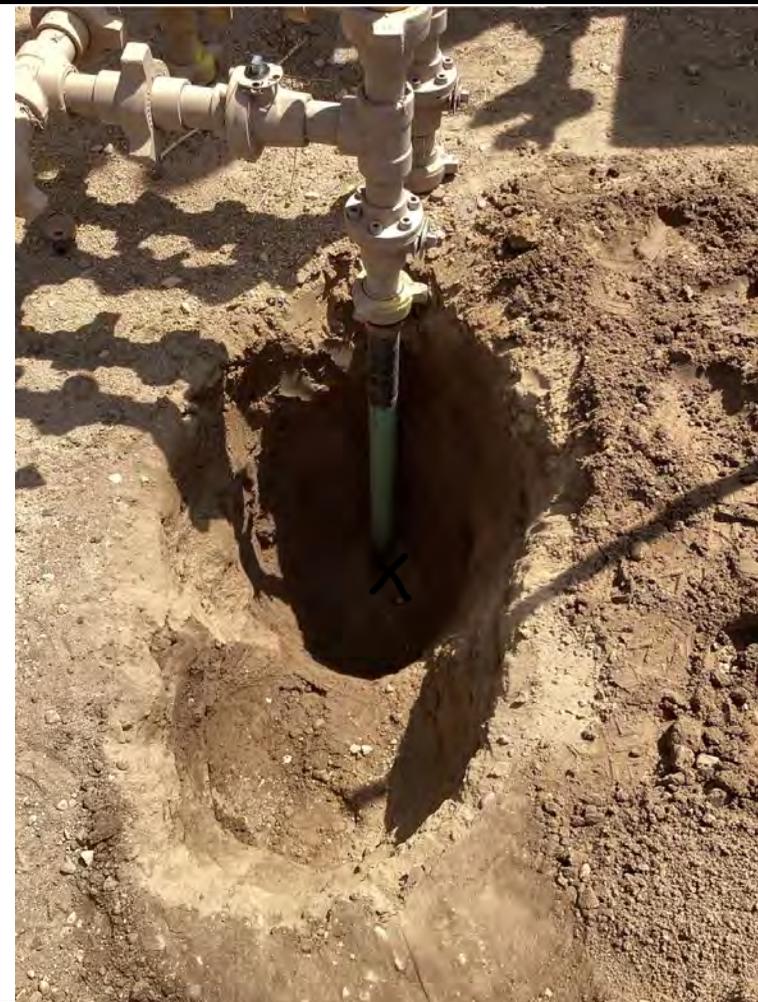


## Flowline Closure Checklist

### COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

| Additional Attachments:   |                | Tank Battery Closure |  | Wellhead Closure |  | Pit Closure |  | Partially Buried Vault Closure |
|---|----------------|----------------------|--|------------------|--|-------------|--|--------------------------------|
| Site Name & COGCC Facility Number: Cody White D3-2 FL   |                | Date: 8/2/2022       |  |                  | Remediation Project #: 22156   |             |  |                                |
| Associated Wells:   |                | Age of Site:         |  |                  | Number of Photos Attached: 11  |             |  |                                |
| Starting point: (GPS coordinates and descriptions)<br>40.259977 -104.534767   |                |                      |  |                  |  |             |  |                                |
| End point: (GPS coordinates and descriptions)<br>40.255847 -104.53009   |                |                      |  |                  |  |             |  |                                |
| USCS Soil Type: Well Graded Sand - SW   |                |                      |  |                  | Estimated Depth to Groundwater: >3'  |             |  |                                |
| Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)<br>None observed  |                |                      |  |                  |  |             |  |                                |
| Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)<br>None observed  |                |                      |  |                  |  |             |  |                                |
| Flowlines   |                |                      |  |                  |  |             |  |                                |
| Flowline type   | Oil/Water/Gas  |                      |  |                  |  |             |  |                                |
| Depth   | 3'             |                      |  |                  |  |             |  |                                |
| Age   |                |                      |  |                  |  |             |  |                                |
| Length  | 2,690'         |                      |  |                  |  |             |  |                                |
| Construction Material   | Steel          |                      |  |                  |  |             |  |                                |
| Were flowlines pulled?  | Yes            |                      |  |                  |  |             |  |                                |
| Visual Integrity of lines   | Good           |                      |  |                  |  |             |  |                                |
| Visual impacts if trenched  | NA             |                      |  |                  |  |             |  |                                |
| PID Readings if trenched  | NA             |                      |  |                  |  |             |  |                                |
| Sample taken? Location/Sample ID#   | Yes, see below |                      |  |                  |  |             |  |                                |
| Photo Number(s)   | 1 - 11         |                      |  |                  |  |             |  |                                |
| Other observations regarding on location flowlines:<br>Samples taken along flowline path (FL01-C@2.5' through FL01-K@2.5') starting a well head (FL01-A@3') ending at separator (FL01-B@3')                   |                |                      |  |                  |  |             |  |                                |
| Summary   |                |                      |  |                  |  |             |  |                                |
| Was impacted soil identified?<br><b>No</b> Yes - less than 10 cubic yards                      Yes - more than 10 cubic yards   |                |                      |  |                  |  |             |  |                                |
| Total number of samples field screened: 11  |                |                      |  |                  | Total number of samples collected: 11                                      |             |  |                                |
| Highest PID Reading: 7.8  |                |                      |  |                  | Total number of samples submitted to lab for analysis: 4                   |             |  |                                |
| If more than 10 cubic yards of impacted soil were observed:   |                |                      |  |                  |  |             |  |                                |
| Vertical extent:  |                |                      |  |                  | Estimated spill volume:  |             |  |                                |
| Lateral extent:   |                |                      |  |                  | Volume of soil removed:  |             |  |                                |
| Is additional investigation required?   |                |                      |  |                  |  |             |  |                                |
| Was groundwater encountered during the investigation?<br><b>No</b> Yes - not impacted or in contact with impacted soils                      Yes - groundwater impacted and/or in contact with impacted soils |                |                      |  |                  |  |             |  |                                |
| Measured depth to groundwater:  |                |                      |  |                  | Was remedial groundwater removal conducted?    Yes                      No |             |  |                                |
| Date Groundwater was encountered:   |                |                      |  |                  | Commencement date of removal:  |             |  |                                |
| Sheen on groundwater?                      Yes                      No  |                |                      |  |                  | Volume of groundwater removed prior to sampling:                           |             |  |                                |
| Free product observed?                      Yes                      No   |                |                      |  |                  | Volume of groundwater removed post sampling:                               |             |  |                                |
| Total number of samples collected:  |                |                      |  |                  | Total Volume of groundwater removed:                                       |             |  |                                |
| Total number of samples submitted to lab for analysis:  |                |                      |  |                  |  |             |  |                                |

**Photographic Log**



|                                    |                                 |                                |
|------------------------------------|---------------------------------|--------------------------------|
| <b>Equipment ID:</b> FL01-A@3'     | <b>Equipment Type:</b> Flowline |                                |
| <b>Material:</b> Steel             | <b>Volume:</b>                  | <b>Contents:</b> Oil/Gas/Water |
| <b>Notes/Conditions:</b> Well head |                                 |                                |

|                                    |                                 |                                |
|------------------------------------|---------------------------------|--------------------------------|
| <b>Equipment ID:</b> FL01-B@       | <b>Equipment Type:</b> Flowline |                                |
| <b>Material:</b> Steel             | <b>Volume:</b>                  | <b>Contents:</b> Oil/Gas/Water |
| <b>Notes/Conditions:</b> Separator |                                 |                                |

**Photographic Log**



|                                  |                |                                 |  |                                  |                |                                 |  |
|----------------------------------|----------------|---------------------------------|--|----------------------------------|----------------|---------------------------------|--|
| <b>Equipment ID:</b> FL01-C@2.5' |                | <b>Equipment Type:</b> Flowline |  | <b>Equipment ID:</b> FL01-D@2.5' |                | <b>Equipment Type:</b> Flowline |  |
| <b>Material:</b> Steel           | <b>Volume:</b> | <b>Contents:</b> Oil/Gas/Water  |  | <b>Material:</b> Steel           | <b>Volume:</b> | <b>Contents:</b> Oil/Gas/Water  |  |
| <b>Notes/Conditions:</b>         |                |                                 |  | <b>Notes/Conditions:</b>         |                |                                 |  |

**Photographic Log**


|                                  |                |                                 |  |                                  |                |                                 |  |
|----------------------------------|----------------|---------------------------------|--|----------------------------------|----------------|---------------------------------|--|
| <b>Equipment ID:</b> FL01-E@2.5' |                | <b>Equipment Type:</b> Flowline |  | <b>Equipment ID:</b> FL01-F@2.5' |                | <b>Equipment Type:</b> Flowline |  |
| <b>Material:</b> Steel           | <b>Volume:</b> | <b>Contents:</b> Oil/Gas/Water  |  | <b>Material:</b> Steel           | <b>Volume:</b> | <b>Contents:</b> Oil/Gas/Water  |  |
| <b>Notes/Conditions:</b>         |                |                                 |  | <b>Notes/Conditions:</b>         |                |                                 |  |

**Photographic Log**



|                                  |                |                                 |  |                                  |                |                                 |  |
|----------------------------------|----------------|---------------------------------|--|----------------------------------|----------------|---------------------------------|--|
| <b>Equipment ID:</b> FL01-G@2.5' |                | <b>Equipment Type:</b> Flowline |  | <b>Equipment ID:</b> FL01-H@2.5' |                | <b>Equipment Type:</b> Flowline |  |
| <b>Material:</b> Steel           | <b>Volume:</b> | <b>Contents:</b> Oil/Gas/Water  |  | <b>Material:</b> Steel           | <b>Volume:</b> | <b>Contents:</b> Oil/Gas/Water  |  |
| <b>Notes/Conditions:</b>         |                |                                 |  | <b>Notes/Conditions:</b>         |                |                                 |  |

**Photographic Log**



|                                  |                |                                 |  |                                  |                |                                 |  |
|----------------------------------|----------------|---------------------------------|--|----------------------------------|----------------|---------------------------------|--|
| <b>Equipment ID:</b> FL01-I@2.5' |                | <b>Equipment Type:</b> Flowline |  | <b>Equipment ID:</b> FL01-J@2.5' |                | <b>Equipment Type:</b> Flowline |  |
| <b>Material:</b> Steel           | <b>Volume:</b> | <b>Contents:</b> Oil/Gas/Water  |  | <b>Material:</b> Steel           | <b>Volume:</b> | <b>Contents:</b> Oil/Gas/Water  |  |
| <b>Notes/Conditions:</b>         |                |                                 |  | <b>Notes/Conditions:</b>         |                |                                 |  |

**Photographic Log**



|                                |  |                                 |  |                          |  |                        |  |
|--------------------------------|--|---------------------------------|--|--------------------------|--|------------------------|--|
| <b>Equipment ID:</b> FL01-K@3' |  | <b>Equipment Type:</b> Flowline |  | <b>Equipment ID:</b>     |  | <b>Equipment Type:</b> |  |
| <b>Material:</b> Steel         |  | <b>Volume:</b>                  |  | <b>Material:</b>         |  | <b>Volume:</b>         |  |
| <b>Contents:</b>               |  |                                 |  | <b>Contents:</b>         |  |                        |  |
| <b>Notes/Conditions:</b>       |  |                                 |  | <b>Notes/Conditions:</b> |  |                        |  |

**Photographic Log**



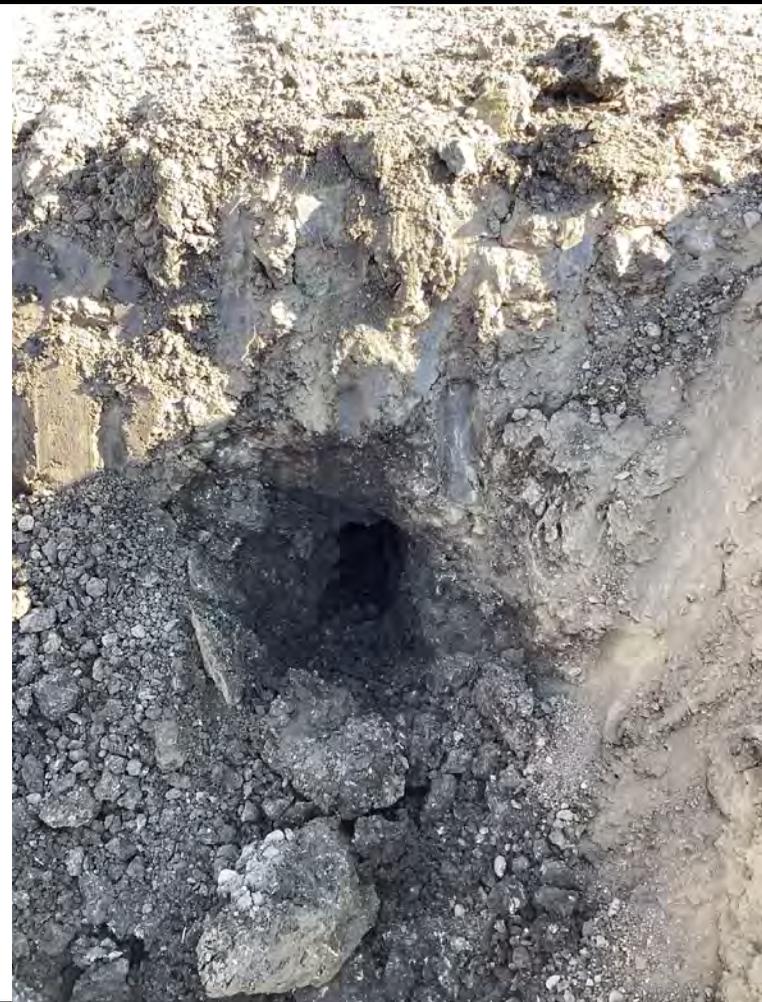
|  |                |                                 |  |  |                |                                 |  |
|--|----------------|---------------------------------|--|--|----------------|---------------------------------|--|
| <b>Equipment ID:</b> FL01-L@2.5'                                 |                | <b>Equipment Type:</b> Flowline |  | <b>Equipment ID:</b> FL01-M@2.5'                                 |                | <b>Equipment Type:</b> Flowline |  |
| <b>Material:</b> Steel   | <b>Volume:</b> | <b>Contents:</b> Oil/Gas/Water  |  | <b>Material:</b> Steel   | <b>Volume:</b> | <b>Contents:</b> Oil/Gas/Water  |  |
| <b>Notes/Conditions:</b> Photo represents flowline D3-1 and D3-2 |                |                                 |  | <b>Notes/Conditions:</b> Photo represents flowline D3-1 and D3-2 |                |                                 |  |

## Photographic Log



|                                  |                |                        |  |                                  |                |                        |  |
|----------------------------------|----------------|------------------------|--|----------------------------------|----------------|------------------------|--|
| <b>Equipment ID:</b> FL01-N@2.5' |                | <b>Equipment Type:</b> |  | <b>Equipment ID:</b> FL01-O@2.5' |                | <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>         |                |                        |  | <b>Notes/Conditions:</b>         |                |                        |  |

## Photographic Log



|                                  |                |                        |  |                                  |                |                        |  |
|----------------------------------|----------------|------------------------|--|----------------------------------|----------------|------------------------|--|
| <b>Equipment ID:</b> FL01-P@2.5' |                | <b>Equipment Type:</b> |  | <b>Equipment ID:</b> FL01-Q@2.5' |                | <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>         |                |                        |  | <b>Notes/Conditions:</b>         |                |                        |  |

**Photographic Log**



|                                  |                |                        |  |   |                |                        |  |
|----------------------------------|----------------|------------------------|--|---|----------------|------------------------|--|
| <b>Equipment ID:</b> FL01-R@2.5' |                | <b>Equipment Type:</b> |  | <b>Equipment ID:</b> FL01-S@2.5'  |                | <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>         |                |                        |  | <b>Notes/Conditions:</b> Flowline abandonment occurred here due to service road |                |                        |  |

**Photographic Log**


|  |                |                        |  |  |                                  |                |                        |  |  |
|--|----------------|------------------------|--|--|----------------------------------|----------------|------------------------|--|--|
| <b>Equipment ID:</b> FL01-T@2.5'   |                | <b>Equipment Type:</b> |  |  | <b>Equipment ID:</b> FL01-U@2.5' |                | <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> Lines abandoned between FL01-S@2.5' and FL01-T@2.5' |                |                        |  |  | <b>Notes/Conditions:</b>         |                |                        |  |  |

### Photographic Log



|                                  |                |                        |  |                                  |                |                        |  |
|----------------------------------|----------------|------------------------|--|----------------------------------|----------------|------------------------|--|
| <b>Equipment ID:</b> FL01-V@2.5' |                | <b>Equipment Type:</b> |  | <b>Equipment ID:</b> FL01-W@2.5' |                | <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>         |                |                        |  | <b>Notes/Conditions:</b>         |                |                        |  |

**TABLE 1  
SOIL SAMPLE LOCATIONS  
NOBLE ENERGY, INC. - CODY WHITE D03-02**

| Soil Sample ID | Date     | PID (ppm) | Visual      | Olfactory | Sample Type (Grab/Lab) | Latitude <sup>1</sup> | Longitude    | PDOP |
|----------------|----------|-----------|-------------|-----------|------------------------|-----------------------|--------------|------|
| FL01-A@3'      | 08/02/22 | 7.8       | No Staining | No Odor   | Lab                    | 40.259946             | -104.534766  | 0.9  |
| FL01-B@3'      | 08/02/22 | 0.5       | No Staining | No Odor   | Lab                    | 40.255821             | -104.530074  | 0.9  |
| FL01-C@2.5'    | 08/02/22 | 1.3       | No Staining | No Odor   | Grab                   | 40.259943             | -104.534499  | 0.9  |
| FL01-D@2.5'    | 08/02/22 | 0.2       | No Staining | No Odor   | Grab                   | 40.259896             | -104.533800  | 0.9  |
| FL01-E@2.5'    | 08/02/22 | 0.0       | No Staining | No Odor   | Grab                   | 40.259874             | -104.533247  | 1.0  |
| FL01-F@2.5'    | 08/02/22 | 0.0       | No Staining | No Odor   | Grab                   | 40.259848             | -104.532787  | 1.0  |
| FL01-G@2.5'    | 08/02/22 | 2.3       | No Staining | No Odor   | Grab                   | 40.259818             | -104.532241  | 0.9  |
| FL01-H@2.5'    | 08/02/22 | 0.0       | No Staining | No Odor   | Grab                   | 40.259786             | -104.531619  | 1.1  |
| FL01-I@2.5'    | 08/02/22 | 1.4       | No Staining | No Odor   | Grab                   | 40.259754             | -104.531007  | 0.9  |
| FL01-J@2.5'    | 08/02/22 | 0.4       | No Staining | No Odor   | Lab                    | 40.259734             | -104.530520  | 0.9  |
| FL01-K@3       | 08/02/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.259572             | -104.530200  | 0.9  |
| FL01-L@2.5'    | 09/01/22 | 0.0       | No Staining | No Odor   | Grab                   | 40.259373             | -104.530144  | 0.9  |
| FL01-M@2.5'    | 09/01/22 | 0.0       | No Staining | No Odor   | Grab                   | 40.259022             | -104.530194  | 0.9  |
| FL01-N@2.5'    | 09/02/22 | 2.6       | No Staining | No Odor   | Grab                   | 40.258713             | -104.530244  | 0.8  |
| FL01-O@2.5'    | 09/02/22 | 0.6       | No Staining | No Odor   | Grab                   | 40.258390             | -104.530303  | 0.8  |
| FL01-P@2.5'    | 09/02/22 | 0.2       | No Staining | No Odor   | Lab                    | 40.258073             | -104.530343  | 0.7  |
| FL01-Q@2.5'    | 09/02/22 | 22.5      | No Staining | No Odor   | Grab                   | 40.257744             | -104.530388  | 0.7  |
| FL01-R@2.5'    | 09/02/22 | 1.9       | No Staining | No Odor   | Grab                   | 40.257389             | -104.530438  | 0.8  |
| FL01-S@2.5'    | 09/02/22 | 0.9       | No Staining | No Odor   | Lab                    | 40.257082             | -104.530477  | 0.8  |
| FL01-T@2.5'    | 09/06/22 | 0.3       | No Staining | No Odor   | Grab                   | 40.256934             | -104.530496  | 0.9  |
| FL01-U@2.5'    | 09/06/22 | 1.2       | No Staining | No Odor   | Grab                   | 40.256611             | -104.530432  | 0.9  |
| FL01-V@2.5'    | 09/06/22 | 4.0       | No Staining | No Odor   | Grab                   | 40.256278             | -104.530292  | 0.9  |
| FL01-W@2.5'    | 09/06/22 | 0.5       | No Staining | No Odor   | Grab                   | 40.255976             | -104.530136  | 0.8  |
| BH01@4'        | 11/08/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25693401           | -104.5304959 | 0.9  |
| BH01@6'        | 11/08/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25693401           | -104.5304959 | 0.9  |
| BH02@4'        | 11/08/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25597635           | -104.5301360 | 0.8  |
| BH02@6'        | 11/08/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25597635           | -104.5301360 | 0.8  |
| BG01@3'        | 11/07/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.26003540           | -104.5350881 | 1.1  |
| BG01@6'        | 11/07/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.26003540           | -104.5350881 | 1.1  |
| BG02@3'        | 11/07/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25998197           | -104.5351299 | 1.1  |
| BG02@6'        | 11/07/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25998197           | -104.5351299 | 1.1  |
| BG03@3'        | 11/07/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25994612           | -104.5350174 | 0.9  |
| BG03@6'        | 11/07/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25994612           | -104.5350174 | 0.9  |
| BG04@3'        | 11/07/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25991468           | -104.5304014 | 1.1  |
| BG04@6'        | 11/07/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25991468           | -104.5304014 | 1.1  |
| BG05@3'        | 11/07/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25988024           | -104.5304356 | 1.1  |
| BG05@6'        | 11/07/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25988024           | -104.5304356 | 1.1  |
| BG06@3'        | 11/07/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25987238           | -104.5303657 | 1.3  |
| BG06@6'        | 11/07/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25987238           | -104.5303657 | 1.3  |
| BG07@3'        | 11/07/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25793803           | -104.5302126 | 1.1  |
| BG07@6'        | 11/07/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25793803           | -104.5302126 | 1.1  |
| BG08@3'        | 11/07/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25790441           | -104.5302652 | 1.1  |
| BG08@6'        | 11/07/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25790441           | -104.5302652 | 1.1  |
| BG09@3'        | 11/07/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25790420           | -104.5301761 | 1.1  |
| BG09@6'        | 11/07/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25790420           | -104.5301761 | 1.1  |
| BG10@3'        | 11/08/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25750613           | -104.5308084 | 1.0  |
| BG10@6'        | 11/08/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25750613           | -104.5308084 | 1.0  |
| BG11@3'        | 11/08/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25729953           | -104.5308448 | 1.0  |
| BG11@6'        | 11/08/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25729953           | -104.5308448 | 1.0  |
| BG12@3'        | 11/08/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25732344           | -104.5306431 | 1.0  |
| BG12@6'        | 11/08/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25732344           | -104.5306431 | 1.0  |
| BG13@3'        | 11/08/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25630386           | -104.5295236 | 0.8  |
| BG13@6'        | 11/08/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25630386           | -104.5295236 | 0.8  |
| BG14@3'        | 11/08/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25630091           | -104.5292656 | 0.8  |
| BG14@6'        | 11/08/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25630091           | -104.5292656 | 0.8  |
| BG15@3'        | 11/08/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25613166           | -104.5293987 | 0.8  |
| BG15@6'        | 11/08/22 | 0.0       | No Staining | No Odor   | Lab                    | 40.25613166           | -104.5293987 | 0.8  |

Notes:

PID = Photo-ionization detector

ppm = parts per million

PDOP = Position dilution of precision

HC = Hydrocarbon

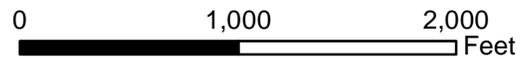
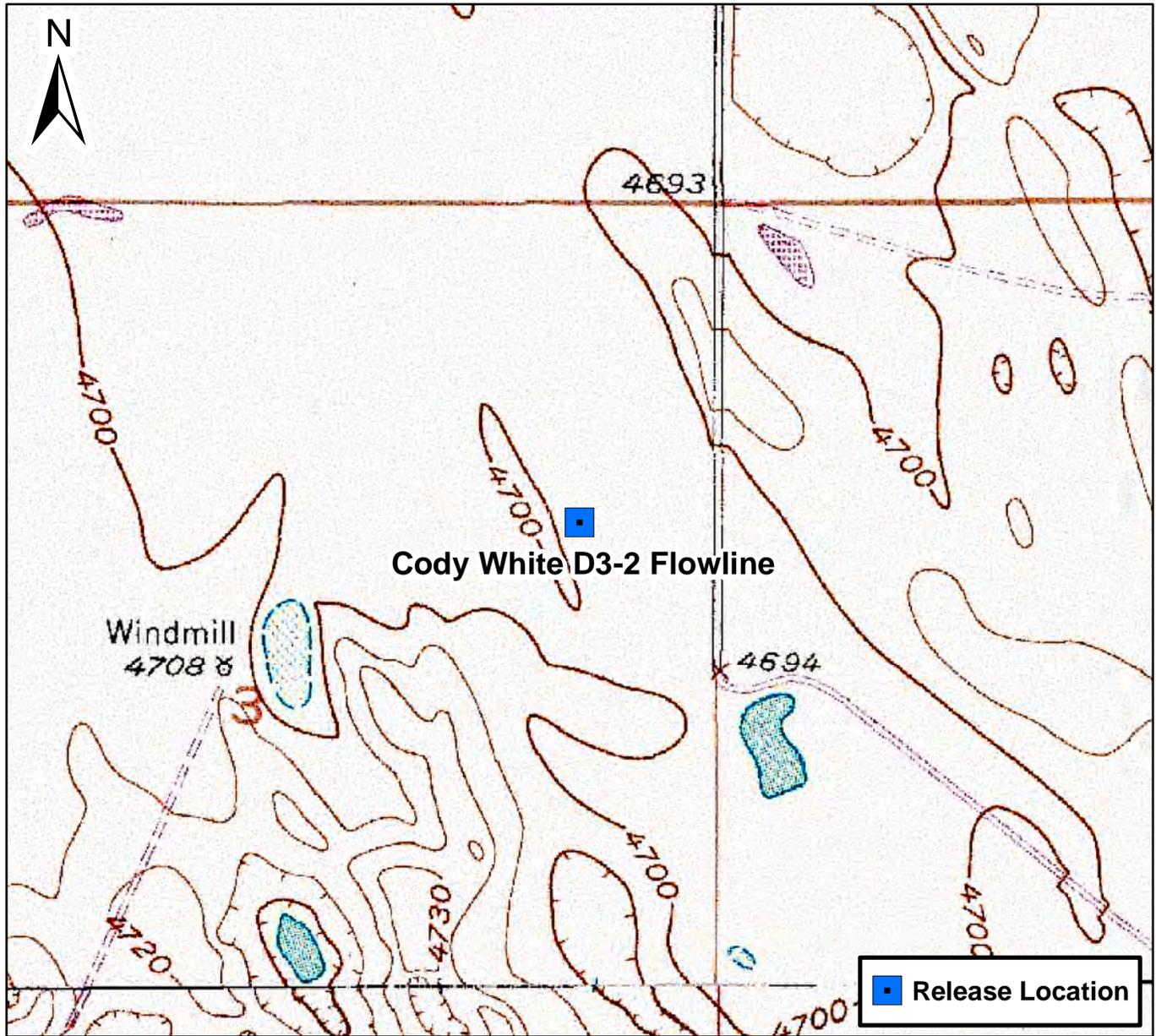
1.) Latitude and longitude coordinates will be provided in decimal degrees with an accuracy and precision of 5 decimals of a degree using the North American Datum ("NAD") of 1983

TABLE 2  
SOIL ANALYTICAL DATA  
NOBLE ENERGY, INC. - CODY WHITE D3-2

| 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       |
| FL01-A@3'                                    | 08/02/22 | <0.0020                      | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | <0.50           | <50             | <50             | <0.00500             | <0.00500           | <0.00500        | <0.00500         | <0.00500         | <0.00500         | <0.00500         | <0.00500    | <0.00500             | <0.00500         | <0.00500         | <0.00500       | <0.00500    | <0.00500    |
| FL01-B@3'                                    | 08/02/22 | <0.0020                      | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | <0.50           | <50             | <50             | <0.00500             | <0.00500           | <0.00500        | <0.00500         | <0.00500         | <0.00500         | <0.00500         | <0.00500    | <0.00500             | <0.00500         | <0.00500         | <0.00500       | <0.00500    | <0.00500    |
| FL01-J@2.5'                                  | 08/02/22 | <0.0020                      | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | <0.50           | <50             | <50             | <0.00500             | <0.00500           | <0.00500        | <0.00500         | <0.00500         | <0.00500         | <0.00500         | <0.00500    | <0.00500             | <0.00500         | <0.00500         | <0.00500       | <0.00500    | <0.00500    |
| FL01-K@3'                                    | 08/02/22 | <0.0020                      | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | <0.50           | <50             | <50             | <0.00500             | <0.00500           | <0.00500        | <0.00500         | <0.00500         | <0.00500         | <0.00500         | <0.00500    | <0.00500             | <0.00500         | <0.00500         | <0.00500       | <0.00500    | <0.00500    |
| FL01-P@2.5'                                  | 09/02/22 | <0.0020                      | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | <0.50           | <50             | <50             | 0.0312               | 0.0877             | 0.161           | 0.129            | 0.183            | 0.0854           | 0.161            | <0.00500    | 0.619                | 0.0502           | 0.0433           | 0.313          | <0.00500    | <0.00500    |
| FL01-S@2.5'                                  | 09/02/22 | <0.0020                      | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | <0.50           | <50             | <50             | <0.00500             | 0.0102             | 0.0290          | 0.0235           | 0.0444           | 0.0148           | 0.0278           | <0.00500    | 0.101                | 0.00578          | 0.00755          | 0.0742         | <0.00500    | <0.00500    |
| BH01@4'                                      | 11/07/22 | <0.0020                      | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | <0.50           | <50             | <50             | <0.00500             | <0.00500           | <0.00500        | <0.00500         | <0.00500         | <0.00500         | <0.00500         | <0.00500    | <0.00500             | <0.00500         | <0.00500         | <0.00500       | <0.00500    | <0.00500    |
| BH01@6'                                      | 11/07/22 | <0.0020                      | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | <0.50           | <50             | <50             | <0.00500             | <0.00500           | <0.00500        | <0.00500         | <0.00500         | <0.00500         | <0.00500         | <0.00500    | <0.00500             | <0.00500         | <0.00500         | <0.00500       | <0.00500    | <0.00500    |
| BH02@4'                                      | 11/08/22 | <0.0020                      | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | <0.50           | <50             | <50             | <0.00500             | <0.00500           | <0.00500        | <0.00500         | <0.00500         | <0.00500         | <0.00500         | <0.00500    | <0.00500             | <0.00500         | <0.00500         | <0.00500       | <0.00500    | <0.00500    |
| BH02@6'                                      | 11/08/22 | <0.0020                      | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | <0.50           | <50             | <50             | <0.00500             | <0.00500           | <0.00500        | <0.00500         | <0.00500         | <0.00500         | <0.00500         | <0.00500    | <0.00500             | <0.00500         | <0.00500         | <0.00500       | <0.00500    | <0.00500    |

| Soil Sample ID               | Date     | pH      | SAR   | EC (mmhos/cm) | Boron (mg/L) |
|------------------------------|----------|---------|-------|---------------|--------------|
| Residential SSL <sup>2</sup> |          | 6 - 8.3 | <6    | <4mmhos/cm    | 2            |
| FL01-A@3'                    | 08/02/22 | 8.03    | 17.3  | 7.88          | 1.71         |
| FL01-B@3'                    | 08/02/22 | 7.94    | 0.114 | 0.275         | 0.125        |
| FL01-J@2.5'                  | 08/02/22 | 8.12    | 16.7  | 6.72          | 1.54         |
| FL01-K@3'                    | 08/02/22 | 8.15    | 8.50  | 3.55          | 1.81         |
| FL01-P@2.5'                  | 09/02/22 | 7.96    | 23.5  | 7.52          | 1.99         |
| FL01-S@2.5'                  | 09/02/22 | 7.97    | 9.84  | 6.46          | 1.79         |
| BH01@4'                      | 11/07/22 | 8.11    | 10.7  | 3.91          | 0.311        |
| BH01@6'                      | 11/07/22 | 8.21    | 17.2  | 6.39          | 0.339        |
| BH02@4'                      | 11/08/22 | 8.17    | 18.3  | 9.49          | 0.653        |
| BH02@6'                      | 11/08/22 | 8.14    | 7.13  | 3.96          | 0.333        |
| BG01@3'                      | 11/07/22 | NA      | 5.40  | 3.31          | NA           |
| BG01@6'                      | 11/07/22 | NA      | 4.80  | 3.57          | NA           |
| BG02@3'                      | 11/07/22 | NA      | 12.5  | 5.52          | NA           |
| BG02@6'                      | 11/07/22 | NA      | 11.9  | 5.99          | NA           |
| BG03@3'                      | 11/07/22 | NA      | 17.3  | 6.28          | NA           |
| BG03@6'                      | 11/07/22 | NA      | 17.9  | 7.40          | NA           |
| BG04@3'                      | 11/07/22 | NA      | 20.8  | 2.81          | NA           |
| BG04@6'                      | 11/07/22 | NA      | 14.7  | 1.05          | NA           |
| BG05@3'                      | 11/07/22 | NA      | 15.6  | 4.72          | NA           |
| BG05@6'                      | 11/07/22 | NA      | 10.0  | 0.851         | NA           |
| BG06@3'                      | 11/07/22 | NA      | 20.3  | 2.45          | NA           |
| BG06@6'                      | 11/07/22 | NA      | 10.5  | 0.725         | NA           |
| BG07@3'                      | 11/07/22 | NA      | 30.5  | 0.116         | NA           |
| BG07@6'                      | 11/07/22 | NA      | 20.5  | 4.88          | NA           |
| BG08@3'                      | 11/07/22 | NA      | 27.6  | 0.321         | NA           |
| BG08@6'                      | 11/07/22 | NA      | 21.0  | 4.60          | NA           |
| BG09@3'                      | 11/07/22 | NA      | 29.4  | 4.28          | NA           |
| BG09@6'                      | 11/07/22 | NA      | 21.4  | 5.45          | NA           |
| BG10@3'                      | 11/08/22 | NA      | 27.9  | 2.56          | NA           |
| BG10@6'                      | 11/08/22 | NA      | 10.2  | 2.07          | NA           |
| BG11@3'                      | 11/08/22 | NA      | 20.6  | 9.01          | NA           |
| BG11@6'                      | 11/08/22 | NA      | 9.43  | 1.24          | NA           |
| BG12@3'                      | 11/08/22 | NA      | 17.1  | 9.11          | NA           |
| BG12@6'                      | 11/08/22 | NA      | 7.68  | 4.63          | NA           |
| BG13@3'                      | 11/08/22 | NA      | 27.1  | 10.4          | NA           |
| BG13@6'                      | 11/08/22 | NA      | 20.5  | 3.86          | NA           |
| BG14@3'                      | 11/08/22 | NA      | 38.8  | 10.4          | NA           |
| BG14@6'                      | 11/08/22 | NA      | 29.9  | 9.79          | NA           |
| BG15@3'                      | 11/08/22 | NA      | 33.5  | 18.9          | NA           |
| BG15@6'                      | 11/08/22 | NA      | 34.6  | 14.3          | NA           |

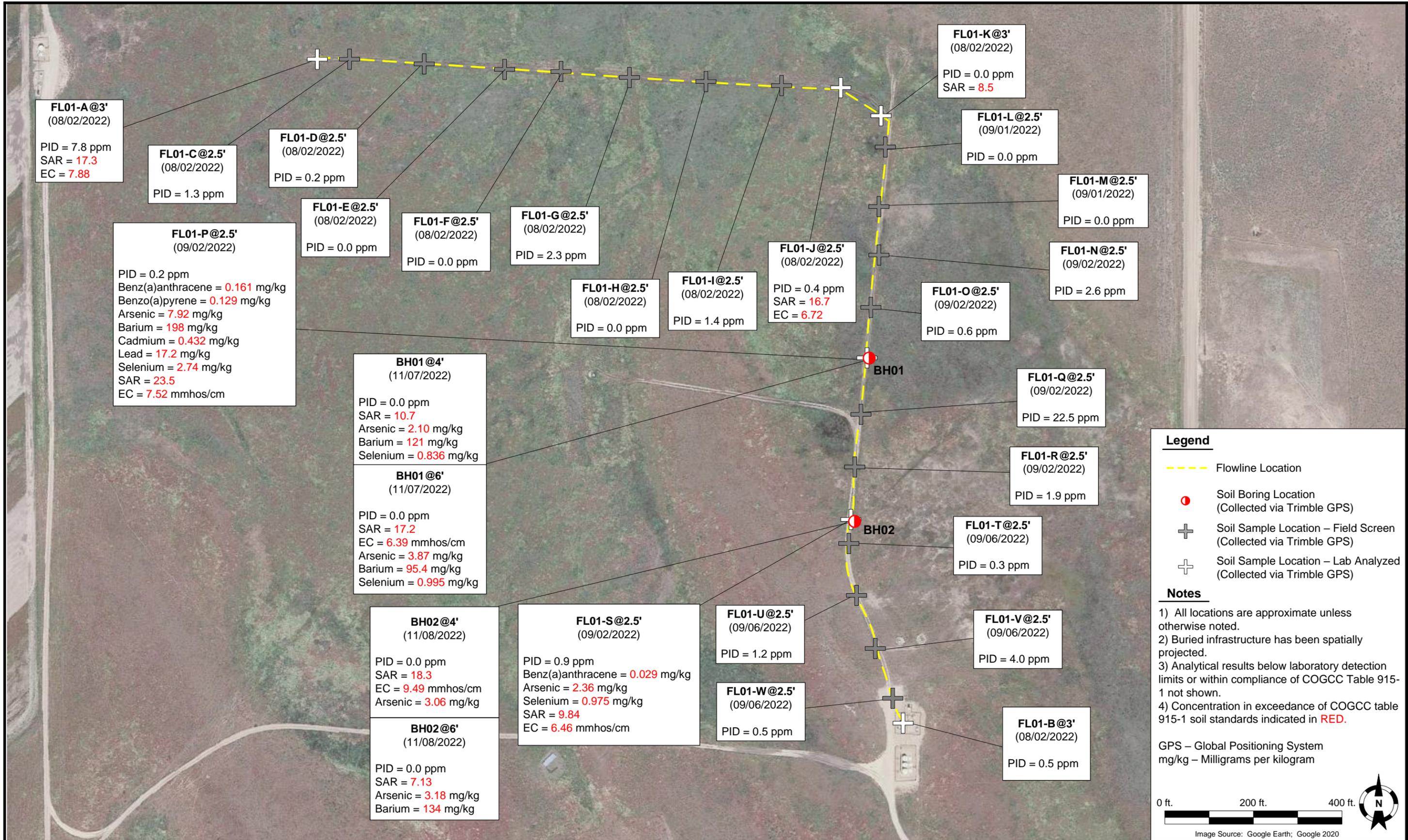
| Soil Sample ID                               | Date     | Arsenic (mg/kg) | Barium (mg/kg) | Cadmium (mg/kg) | Chromium (VI) (mg/kg) | Copper (mg/kg) | Lead (mg/kg) | Nickel (mg/kg) | Selenium (mg/kg) | Silver (mg/kg) | Zinc (mg/kg) |
|--|----------|-----------------|----------------|-----------------|-----------------------|----------------|--------------|----------------|------------------|----------------|--------------|
| Residential SSL <sup>2</sup>                 |          | 0.68            | 15,000         | 71              | 0.3                   | 3,100          | 400          | 1,500          | 390              | 0.8            | 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          |
| FL01-P@2.5'                                  | 09/02/22 | 7.92            | 198            | 0.432           | <0.30                 | 27.1           | 17.2         | 20.1           | 2.74             | 0.108          | 103          |
| FL01-S@2.5'                                  | 09/02/22 | 2.36            | 76.0           | <0.223          | <0.30                 | 7.49           | 6.15         | 7.30           | 0.975            | 0.0376         | 30.3         |
| BH01@4'                                      | 11/07/22 | 2.10            | 121            | 0.262           | <0.30                 | 15.1           | 11.2         | 11.8           | 0.836            | 0.0603         | 48.6         |
| BH01@6'                                      | 11/07/22 | 3.87            | 95.4           | 0.302           | <0.30                 | 21.1           | 13.4         | 17.9           | 0.995            | 0.0750         | 68.2         |
| BH02@4'                                      | 11/08/22 | 3.06            | 78.6           | <0.230          | <0.30                 | 3.86           | 4.90         | 5.05           | <0.299           | 0.0294         | 17.4         |
| BH02@6'                                      | 11/08/22 | 3.18            | 134            | <0.235          | <0.30                 | 4.43           | 5.69         | 5.50           | <0.305           | 0.031          | 20.2         |
| BG01@3'                                      | 11/07/22 | 1.70            | 49.7           | <0.200          | NA                    | NA             | 4.08         | NA             | 0.357            | NA             | NA           |
| BG01@6'                                      | 11/07/22 | 4.28            | 73.5           | 0.284           | NA                    | NA             | 13.6         | NA             | 1.23             | NA             | NA           |
| BG02@3'                                      | 11/07/22 | 1.53            | 45.6           | <0.200          | NA                    | NA             | 3.86         | NA             | 0.406            | NA             | NA           |
| BG02@6'                                      | 11/07/22 | 4.60            | 81.6           | 0.251           | NA                    | NA             | 11.2         | NA             | 1.01             | NA             | NA           |
| BG03@3'                                      | 11/07/22 | 1.28            | 38.2           | <0.200          | NA                    | NA             | 3.17         | NA             | 0.416            | NA             | NA           |
| BG03@6'                                      | 11/07/22 | 3.35            | 53.0           | 0.207           | NA                    | NA             | 10.0         | NA             | 0.764            | NA             | NA           |
| BG04@3'                                      | 11/07/22 | 2.08            | 52.7           | <0.200          | NA                    | NA             | 5.33         | NA             | 0.707            | NA             | NA           |
| BG04@6'                                      | 11/07/22 | 2.32            | 38.8           | <0.200          | NA                    | NA             | 4.41         | NA             | 0.51             | NA             | NA           |
| BG05@3'                                      | 11/07/22 | 3.50            | 80.0           | <0.200          | NA                    | NA             | 7.77         | NA             | 0.977            | NA             | NA           |
| BG05@6'                                      | 11/07/22 | 2.64            | 18.6           | <0.200          | NA                    | NA             | 3.98         | NA             | 0.436            | NA             | NA           |
| BG06@3'                                      | 11/07/22 | 2.12            | 63.9           | <0.200          | NA                    | NA             | 5.18         | NA             | 0.645            | NA             | NA           |
| BG06@6'                                      | 11/07/22 | 1.63            | 27.5           | <0.200          | NA                    | NA             | 4.68         | NA             | 0.441            | NA             | NA           |
| BG07@3'                                      | 11/07/22 | 5.48            | 92.6           | 0.318           | NA                    | NA             | 12.1         | NA             | 1.83             | NA             | NA           |
| BG07@6'                                      | 11/07/22 | 3.34            | 75.5           | 0.396           | NA                    | NA             | 13.4         | NA             | 1.39             | NA             | NA           |
| BG08@3'                                      | 11/07/22 | 4.38            | 134            | 0.326           | NA                    | NA             | 13.7         | NA             | 1.84             | NA             | NA           |
| BG08@6'                                      | 11/07/22 | 9.05            | 208            | 0.447           | NA                    | NA             | 14.9         | NA             | 2.03             | NA             | NA           |
| BG09@3'                                      | 11/07/22 | 5.51            | 149            | 0.470           | NA                    | NA             | 12.8         | NA             | 1.61             | NA             | NA           |
| BG09@6'                                      | 11/07/22 | 4.03            | 114            | 0.365           | NA                    | NA             | 13.0         | NA             | 1.42             | NA             | NA           |
| BG10@3'                                      | 11/08/22 | 2.50            | 84.3           | <0.200          | NA                    | NA             | 5.74         | NA             | 0.549            | NA             | NA           |
| BG10@6'                                      | 11/08/22 | 2.38            | 91.1           | <0.200          | NA                    | NA             | 4.13         | NA             | 0.391            | NA             | NA           |
| BG11@3'                                      | 11/08/22 | 4.36            | 142            | <0.200          | NA                    | NA             | 5.97         | NA             | 0.589            | NA             | NA           |
| BG11@6'                                      | 11/08/22 | 2.36            | 75.8           | <0.200          | NA                    | NA             | 4.93         | NA             | 0.548            | NA             | NA           |
| BG12@3'                                      | 11/08/22 | 4.10            | 171            | <0.200          | NA                    | NA             | 6.93         | NA             | 0.736            | NA             | NA           |
| BG12@6'                                      | 11/08/22 | 2.72            | 72.3           | <0.200          | NA                    | NA             | 4.98         | NA             | 0.633            | NA             | NA           |
| BG13@3'                                      | 11/08/22 | 1.66            | 35.3           | <0.200          | NA                    | NA             | 3.79         | NA             | 0.552            | NA             | NA           |
| BG13@6'                                      | 11/08/22 | 2.59            | 143            | <0.200          | NA                    | NA             | 5.38         | NA             | 0.517            | NA             | NA           |
| BG14@3'                                      | 11/08/22 | 1.70            | 79.6           | <0.200          | NA                    | NA             | 4.17         | NA             | 0.421            | NA             | NA           |
| BG14@6'                                      | 11/08/22 | 1.86            | 51.4           | <0.200          | NA                    | NA             | 4.19         | NA             | 0.599            | NA             | NA           |
| BG15@3'                                      | 11/08/22 | 2.19            | 42.8           | <0.200          | NA                    | NA             | 3.71         | NA             | 0.500            | NA             | NA           |
| BG15@6'                                      | 11/08/22 | 3.74            | 106            | <0.200          | NA                    | NA             | 5.57         | NA             | 0.613            | NA             | NA           |



### Figure 1

Site Location Map  
 Cody White D3-2 Flowline  
 SENE S3 T3N R64W  
 Weld County, Colorado





DATE: 10/28/2022  
 DESIGNED BY: JW  
 DRAWN BY: AE

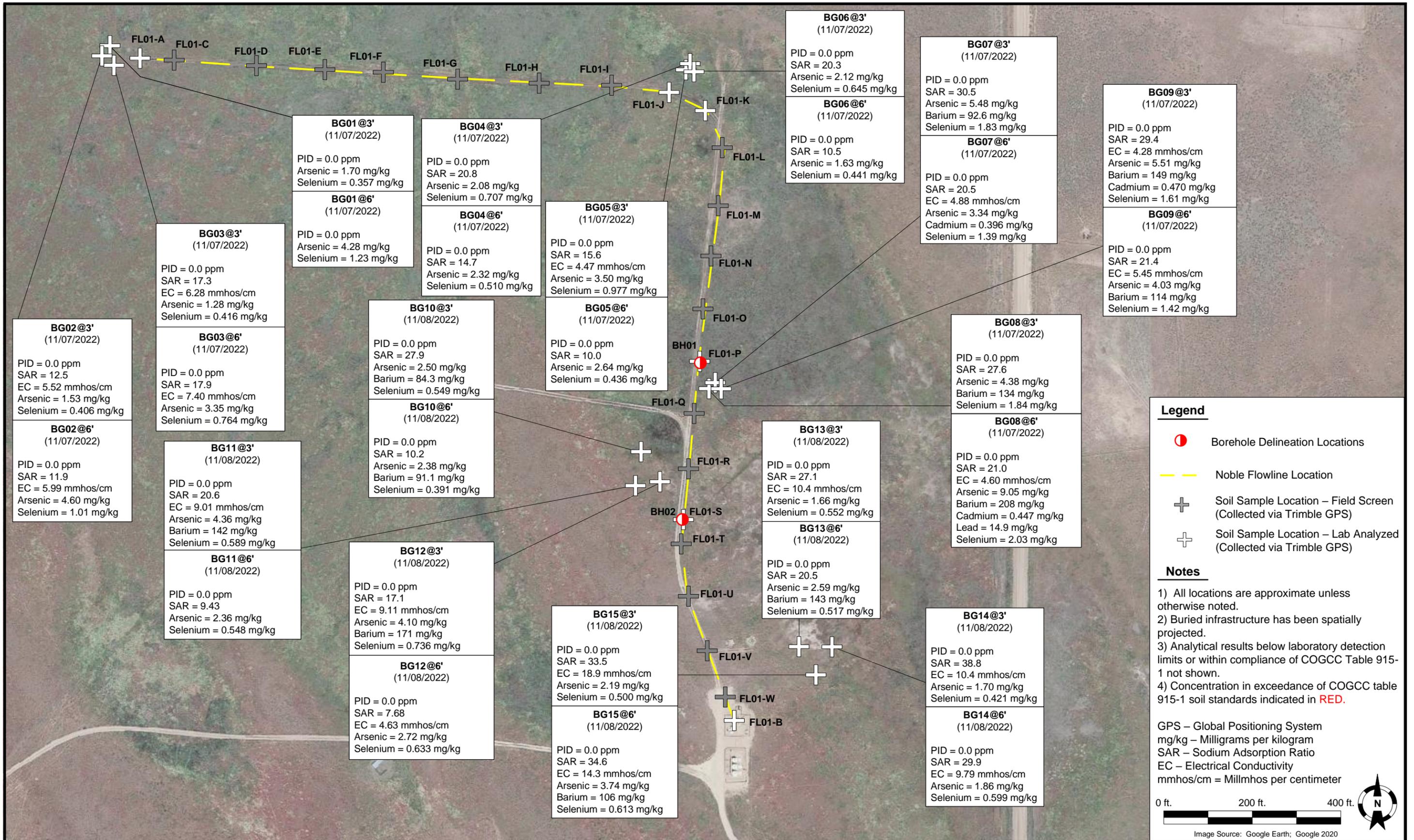
**TASMAN**  
GEOSCIENCES

Tasman Geosciences, Inc.  
6855 W 119<sup>th</sup> Avenue  
Broomfield, CO 80020

**Noble Energy, Inc. – DJ Basin**  
**Cody White D3-2**  
 NWNE, Section 3, Township 3 North, Range 64 West  
 Weld County, Colorado

Flowline Soil  
 Analytical Results Map  
 (08/02/2022, 09/01/2022, 09/02/2022,  
 09/06/2022, 11/07/2022, 11/08/2022)

FIGURE  
 2



|              |          |
|--------------|----------|
| DATE:        | 12/31/22 |
| DESIGNED BY: | JW       |
| DRAWN BY:    | AE       |

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

**Noble Energy, Inc. – DJ Basin**  
**Cody White D03-02**  
 SENE, Section 3, Township 3 North, Range 64 West  
 Weld County, Colorado

Background Soil  
 Analytical Results Map  
 (09/01/2022 - 11/08/2022)

**FIGURE**  
**3**

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 09, 2022

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Noble - Cody White D3-2 FL

Work Order #2208028

Enclosed are the results of analyses for samples received by Summit Scientific on 08/02/22 17:12. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury

President



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

Project: Noble - Cody White D3-2 FL

Project Number: UWRWE-A2165-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/09/22 13:13

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID   | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-------------|---------------|--------|----------------|----------------|
| FL01-A@3'   | 2208028-01    | Soil   | 08/02/22 11:49 | 08/02/22 17:12 |
| FL01-B@3'   | 2208028-02    | Soil   | 08/02/22 11:36 | 08/02/22 17:12 |
| FL01-J@2.5' | 2208028-03    | Soil   | 08/02/22 12:30 | 08/02/22 17:12 |
| FL01-K@3'   | 2208028-04    | Soil   | 08/02/22 12:35 | 08/02/22 17:12 |

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.*

# Summit Scientific

2208028

S<sub>2</sub>

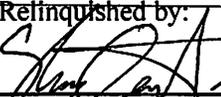
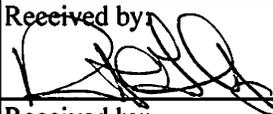
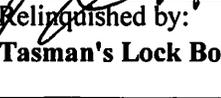
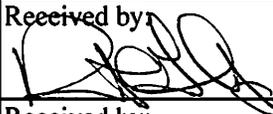
4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 1

Client: Noble / Tasman Project Manager: Jake Whritenour Invoice: Cole Moore  
 Address: 6855 W. 119th Ave E-Mail: jwhritenour@tasman-geo.com  
 City/State/Zip: Broomfield, CO 80020  
 Phone: 303-261-6246 Project Name: Cody White D3-2 FL  
 Sampler Name: Stanley Gilbert Project Number: UWPWE-A2165-ABN

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative |      |      |       | Matrix |      |                | Analysis Requested |           |           |           |             |             | Special Instructions |                                |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|----------------|--------------------|-----------|-----------|-----------|-------------|-------------|----------------------|--------------------------------|
|    |                    |              |              |                 | HCl          | HNO3 | None | Other | Water  | Soil | Air-Canister # | Other              | VOC - 915 | TPH - 915 | PAH - 915 | pH, EC, SAR | Boron - HWS |                      | HOLD                           |
| 1  | FLO2-A@3'          | 8/2/22       | 11:49        | 2               |              |      | X    |       |        | X    |                |                    | X         | X         | X         | X           | X           |                      | pH, EC, SAR by saturated paste |
| 2  | FLO2-B@3'          |              | 11:36        |                 |              |      |      |       |        |      |                |                    | X         | X         | X         | X           | X           |                      |                                |
| 3  | FLO2-J@2.5'        |              | 12:30        |                 |              |      |      |       |        |      |                |                    | X         | X         | X         | X           | X           |                      |                                |
| 4  | FLO2-K@3'          |              | 12:35        |                 |              |      |      |       |        |      |                |                    | X         | X         | X         | X           | X           |                      |                                |
| 5  |                    |              |              |                 |              |      |      |       |        |      |                |                    |           |           |           |             |             |                      |                                |
| 6  |                    |              |              |                 |              |      |      |       |        |      |                |                    |           |           |           |             |             |                      |                                |
| 7  |                    |              |              |                 |              |      |      |       |        |      |                |                    |           |           |           |             |             |                      |                                |
| 8  |                    |              |              |                 |              |      |      |       |        |      |                |                    |           |           |           |             |             |                      |                                |
| 9  |                    |              |              |                 |              |      |      |       |        |      |                |                    |           |           |           |             |             |                      |                                |
| 10 |                    |              |              |                 |              |      |      |       |        |      |                |                    |           |           |           |             |             |                      |                                |

|  |                            |   |                            |   |        |
|--|----------------------------|---|----------------------------|---|--------|
| Relinquished by: <br>Tasman's Lock Box | Date/Time: 8/2/22<br>15:15 | Received by: <br>Tasman's Lock Box | Date/Time: 8/2/22<br>15:15 | Turn Around Time (Check)<br>Same Day _____ 72 hours<br>24 hours _____ Standard <input checked="" type="checkbox"/><br>48 hours _____<br>Sample Integrity:<br>Temperature Upon Receipt: <u>7.3</u><br>Samples Intact: <input checked="" type="checkbox"/> Yes No | Notes: |
| Relinquished by: <br>Tasman's Lock Box | Date/Time: 8/2/22<br>17:12 | Received by: <br>Tasman's Lock Box | Date/Time: 8/2/22<br>17:12 |   |        |
| Relinquished by: _____   | Date/Time: _____           | Received by: _____  | Date/Time: _____           |   |        |

S<sub>2</sub>

S2 Work Order# 2208028

Sample Receipt Checklist

Client: Noble/Tasman Client Project ID: Cody white D3-2 FL

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

-

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

Temp (°C)

Thermometer #

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

[Signature]  
Custodian Printed Name

8222  
Date/Time



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

Project: Noble - Cody White D3-2 FL

Project Number: UWRWE-A2165-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/09/22 13:13

**FL01-A@3'**  
**2208028-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/02/22 11:49**

| Analyte                     | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    |  | mg/kg | 1        | BFH0064 | 08/03/22 | 08/04/22 | 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: **08/02/22 11:49**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 104 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 99.4 %    |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 99.1 %    |  | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/02/22 11:49**

| Analyte       | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |  |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        |  | mg/kg | 1        | BFH0065 | 08/03/22 | 08/03/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **08/02/22 11:49**

| Analyte                | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl |        | 81.6 %    |  | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

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 - Cody White D3-2 FL

Project Number: UWRWE-A2165-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/09/22 13:13

**FL01-A@3'**  
**2208028-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/02/22 11:49**

| Analyte                  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene             | ND     | 0.00500         | mg/kg | 1        | BFH0040 | 08/03/22 | 08/04/22 | 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: **08/02/22 11:49**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 |        | 73.9 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        |        | 73.5 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/02/22 11:49**

| Analyte      | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|-------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>1.71</b> | 0.0100          | mg/L  | 1        | BFH0073 | 08/03/22 | 08/04/22 | EPA 6020B |       |

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

Date Sampled: **08/02/22 11:49**

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

Summit Scientific

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



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

Project: Noble - Cody White D3-2 FL  
Project Number: UWRWE-A2165-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/09/22 13:13

**FL01-A@3'**  
**2208028-01 (Soil)**

**Summit Scientific**

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

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 390    | 0.0628          | mg/L dry | 1        | BFH0102 | 08/04/22 | 08/06/22 | EPA 6020B |       |
| Magnesium | 127    | 0.0628          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 1540   | 0.0628          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **08/02/22 11:49**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 17.3   | 0.00100         | units | 1        | BFH0154 | 08/08/22 | 08/09/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/02/22 11:49**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 79.6   |                 | %     | 1        | BFH0085 | 08/03/22 | 08/04/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/02/22 11:49**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 7.88   | 0.0100          | mmhos/cm | 1        | BFH0131 | 08/05/22 | 08/05/22 | EPA 120.1 |       |

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

Date Sampled: **08/02/22 11:49**

| Analyte | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH      | 8.03   |                 | pH Units | 1        | BFH0130 | 08/05/22 | 08/05/22 | EPA 9045D |       |

Summit Scientific

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



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

Project: Noble - Cody White D3-2 FL  
Project Number: UWRWE-A2165-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/09/22 13:13

**FL01-B@3'**  
**2208028-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/02/22 11:36**

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene                     | ND     | 0.0020          | mg/kg | 1        | BFH0064 | 08/03/22 | 08/04/22 | 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: **08/02/22 11:36**

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 |        | 102 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 99.8 %          | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 96.8 %          | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/02/22 11:36**

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | BFH0065 | 08/03/22 | 08/03/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **08/02/22 11:36**

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl |        | 78.3 %          | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

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 - Cody White D3-2 FL  
Project Number: UWRWE-A2165-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/09/22 13:13

**FL01-B@3'**  
**2208028-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/02/22 11:36**

| Analyte                  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene             | ND     | 0.00500         | mg/kg | 1        | BFH0040 | 08/03/22 | 08/04/22 | 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: **08/02/22 11:36**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 |        | 79.1 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        |        | 74.5 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/02/22 11:36**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.125</b> | 0.0100          | mg/L  | 1        | BFH0073 | 08/03/22 | 08/04/22 | EPA 6020B |       |

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

Date Sampled: **08/02/22 11:36**

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

Summit Scientific

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



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

Project: Noble - Cody White D3-2 FL  
Project Number: UWRWE-A2165-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/09/22 13:13

**FL01-B@3'**  
**2208028-02 (Soil)**

**Summit Scientific**

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

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 33.3   | 0.0546          | mg/L dry | 1        | BFH0102 | 08/04/22 | 08/06/22 | EPA 6020B |       |
| Magnesium | 8.18   | 0.0546          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 2.84   | 0.0546          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **08/02/22 11:36**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.114  | 0.00100         | units | 1        | BFH0154 | 08/08/22 | 08/09/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/02/22 11:36**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 91.5   |                 | %     | 1        | BFH0085 | 08/03/22 | 08/04/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/02/22 11:36**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.275  | 0.0100          | mmhos/cm | 1        | BFH0131 | 08/05/22 | 08/05/22 | EPA 120.1 |       |

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

Date Sampled: **08/02/22 11:36**

| Analyte | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH      | 7.94   |                 | pH Units | 1        | BFH0130 | 08/05/22 | 08/05/22 | EPA 9045D |       |

Summit Scientific

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



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

Project: Noble - Cody White D3-2 FL  
Project Number: UWRWE-A2165-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/09/22 13:13

**FL01-J@2.5'**  
**2208028-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/02/22 12:30**

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene                     | ND     | 0.0020          | mg/kg | 1        | BFH0064 | 08/03/22 | 08/04/22 | 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: **08/02/22 12:30**

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 |        | 107 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 100 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 99.2 %          | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/02/22 12:30**

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | BFH0065 | 08/03/22 | 08/03/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **08/02/22 12:30**

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl |        | 74.5 %          | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

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 - Cody White D3-2 FL

Project Number: UWRWE-A2165-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/09/22 13:13

**FL01-J@2.5'**  
**2208028-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/02/22 12:30**

| Analyte                  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene             | ND     | 0.00500         | mg/kg | 1        | BFH0040 | 08/03/22 | 08/04/22 | 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: **08/02/22 12:30**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 |        | 79.1 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        |        | 70.6 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/02/22 12:30**

| Analyte      | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|-------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>1.54</b> | 0.0100          | mg/L  | 1        | BFH0073 | 08/03/22 | 08/04/22 | EPA 6020B |       |

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

Date Sampled: **08/02/22 12:30**

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

Summit Scientific

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



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

Project: Noble - Cody White D3-2 FL  
Project Number: UWRWE-A2165-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/09/22 13:13

**FL01-J@2.5'**  
**2208028-03 (Soil)**

**Summit Scientific**

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

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 1230   | 0.0631          | mg/L dry | 1        | BFH0102 | 08/04/22 | 08/08/22 | EPA 6020B |       |
| Magnesium | 3960   | 0.0631          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 5330   | 0.0631          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **08/02/22 12:30**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 16.7   | 0.00100         | units | 1        | BFH0154 | 08/08/22 | 08/09/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/02/22 12:30**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 79.2   |                 | %     | 1        | BFH0085 | 08/03/22 | 08/04/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/02/22 12:30**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 6.72   | 0.0100          | mmhos/cm | 1        | BFH0131 | 08/05/22 | 08/05/22 | EPA 120.1 |       |

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

Date Sampled: **08/02/22 12:30**

| Analyte | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH      | 8.12   |                 | pH Units | 1        | BFH0130 | 08/05/22 | 08/05/22 | EPA 9045D |       |

Summit Scientific

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



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

Project: Noble - Cody White D3-2 FL

Project Number: UWRWE-A2165-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/09/22 13:13

**FL01-K@3'**  
**2208028-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/02/22 12:35**

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene                     | ND     | 0.0020          | mg/kg | 1        | BFH0064 | 08/03/22 | 08/04/22 | 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: **08/02/22 12:35**

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 |        | 109 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 99.0 %          | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 100 %           | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/02/22 12:35**

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | BFH0065 | 08/03/22 | 08/03/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **08/02/22 12:35**

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl |        | 76.8 %          | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

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 - Cody White D3-2 FL  
Project Number: UWRWE-A2165-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/09/22 13:13

**FL01-K@3'**  
**2208028-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/02/22 12:35**

| Analyte                  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene             | ND     | 0.00500         | mg/kg | 1        | BFH0040 | 08/03/22 | 08/04/22 | 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: **08/02/22 12:35**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 |        | 71.6 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        |        | 50.7 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/02/22 12:35**

| Analyte      | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|-------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>1.81</b> | 0.0100          | mg/L  | 1        | BFH0073 | 08/03/22 | 08/04/22 | EPA 6020B |       |

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

Date Sampled: **08/02/22 12:35**

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

Summit Scientific

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



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

Project: Noble - Cody White D3-2 FL  
Project Number: UWRWE-A2165-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/09/22 13:13

**FL01-K@3'**  
**2208028-04 (Soil)**

**Summit Scientific**

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

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 1570   | 0.0616          | mg/L dry | 1        | BFH0102 | 08/04/22 | 08/08/22 | EPA 6020B |       |
| Magnesium | 4290   | 0.0616          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 2870   | 0.0616          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **08/02/22 12:35**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 8.50   | 0.00100         | units | 1        | BFH0154 | 08/08/22 | 08/09/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/02/22 12:35**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 81.2   |                 | %     | 1        | BFH0085 | 08/03/22 | 08/04/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/02/22 12:35**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 3.55   | 0.0100          | mmhos/cm | 1        | BFH0131 | 08/05/22 | 08/05/22 | EPA 120.1 |       |

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

Date Sampled: **08/02/22 12:35**

| Analyte | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH      | 8.15   |                 | pH Units | 1        | BFH0130 | 08/05/22 | 08/05/22 | EPA 9045D |       |

Summit Scientific

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



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

Project: Noble - Cody White D3-2 FL

Project Number: UWRWE-A2165-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/09/22 13:13

### 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 BFH0064 - EPA 5030 Soil MS

##### Blank (BFH0064-BLK1)

Prepared & Analyzed: 08/03/22

|   |               |        |          |               |  |             |               |  |  |  |  |
|---|---------------|--------|----------|---------------|--|-------------|---------------|--|--|--|--|
| 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> | <i>0.0409</i> |        | <i>"</i> | <i>0.0400</i> |  | <i>102</i>  | <i>50-150</i> |  |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | <i>0.0400</i> |        | <i>"</i> | <i>0.0400</i> |  | <i>99.9</i> | <i>50-150</i> |  |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>0.0408</i> |        | <i>"</i> | <i>0.0400</i> |  | <i>102</i>  | <i>50-150</i> |  |  |  |  |

##### LCS (BFH0064-BS1)

Prepared & Analyzed: 08/03/22

|   |               |        |          |               |  |            |               |  |  |  |  |
|---|---------------|--------|----------|---------------|--|------------|---------------|--|--|--|--|
| Benzene                                 | 0.145         | 0.0020 | mg/kg    | 0.150         |  | 96.7       | 70-130        |  |  |  |  |
| Toluene                                 | 0.141         | 0.0050 | "        | 0.150         |  | 94.3       | 70-130        |  |  |  |  |
| Ethylbenzene                            | 0.141         | 0.0050 | "        | 0.150         |  | 93.7       | 70-130        |  |  |  |  |
| m,p-Xylene                              | 0.281         | 0.010  | "        | 0.300         |  | 93.7       | 70-130        |  |  |  |  |
| o-Xylene                                | 0.142         | 0.0050 | "        | 0.150         |  | 94.4       | 70-130        |  |  |  |  |
| 1,2,4-Trimethylbenzene                  | 0.143         | 0.0050 | "        | 0.150         |  | 95.0       | 70-130        |  |  |  |  |
| 1,3,5-Trimethylbenzene                  | 0.142         | 0.0050 | "        | 0.150         |  | 94.5       | 70-130        |  |  |  |  |
| Naphthalene                             | 0.132         | 0.0038 | "        | 0.150         |  | 88.3       | 70-130        |  |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0418</i> |        | <i>"</i> | <i>0.0400</i> |  | <i>104</i> | <i>50-150</i> |  |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | <i>0.0405</i> |        | <i>"</i> | <i>0.0400</i> |  | <i>101</i> | <i>50-150</i> |  |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>0.0402</i> |        | <i>"</i> | <i>0.0400</i> |  | <i>100</i> | <i>50-150</i> |  |  |  |  |

##### Matrix Spike (BFH0064-MS1)

Source: 2208001-05

Prepared & Analyzed: 08/03/22

|   |               |        |          |               |    |             |               |  |  |  |  |
|---|---------------|--------|----------|---------------|----|-------------|---------------|--|--|--|--|
| Benzene                                 | 0.140         | 0.0020 | mg/kg    | 0.150         | ND | 93.6        | 70-130        |  |  |  |  |
| Toluene                                 | 0.138         | 0.0050 | "        | 0.150         | ND | 91.9        | 70-130        |  |  |  |  |
| Ethylbenzene                            | 0.140         | 0.0050 | "        | 0.150         | ND | 93.5        | 70-130        |  |  |  |  |
| m,p-Xylene                              | 0.275         | 0.010  | "        | 0.300         | ND | 91.7        | 70-130        |  |  |  |  |
| o-Xylene                                | 0.136         | 0.0050 | "        | 0.150         | ND | 90.8        | 70-130        |  |  |  |  |
| 1,2,4-Trimethylbenzene                  | 0.135         | 0.0050 | "        | 0.150         | ND | 89.8        | 70-130        |  |  |  |  |
| 1,3,5-Trimethylbenzene                  | 0.135         | 0.0050 | "        | 0.150         | ND | 90.3        | 70-130        |  |  |  |  |
| Naphthalene                             | 0.124         | 0.0038 | "        | 0.150         | ND | 82.4        | 70-130        |  |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0414</i> |        | <i>"</i> | <i>0.0400</i> |    | <i>103</i>  | <i>50-150</i> |  |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | <i>0.0396</i> |        | <i>"</i> | <i>0.0400</i> |    | <i>99.1</i> | <i>50-150</i> |  |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>0.0402</i> |        | <i>"</i> | <i>0.0400</i> |    | <i>101</i>  | <i>50-150</i> |  |  |  |  |

Summit Scientific

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



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

Project: Noble - Cody White D3-2 FL  
Project Number: UWRWE-A2165-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/09/22 13:13

**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 BFH0064 - EPA 5030 Soil MS**

| <b>Matrix Spike Dup (BFH0064-MSD1)</b>  | <b>Source: 2208001-05</b> |        |          | <b>Prepared &amp; Analyzed: 08/03/22</b> |    |             |               |      |    |  |
|---|---------------------------|--------|----------|--|----|-------------|---------------|------|----|--|
| Benzene                                 | 0.138                     | 0.0020 | mg/kg    | 0.150                                    | ND | 92.3        | 70-130        | 1.48 | 30 |  |
| Toluene                                 | 0.134                     | 0.0050 | "        | 0.150                                    | ND | 89.2        | 70-130        | 2.96 | 30 |  |
| Ethylbenzene                            | 0.133                     | 0.0050 | "        | 0.150                                    | ND | 88.4        | 70-130        | 5.59 | 30 |  |
| m,p-Xylene                              | 0.261                     | 0.010  | "        | 0.300                                    | ND | 87.0        | 70-130        | 5.31 | 30 |  |
| o-Xylene                                | 0.131                     | 0.0050 | "        | 0.150                                    | ND | 87.0        | 70-130        | 4.23 | 30 |  |
| 1,2,4-Trimethylbenzene                  | 0.131                     | 0.0050 | "        | 0.150                                    | ND | 87.1        | 70-130        | 2.96 | 30 |  |
| 1,3,5-Trimethylbenzene                  | 0.132                     | 0.0050 | "        | 0.150                                    | ND | 88.1        | 70-130        | 2.51 | 30 |  |
| Naphthalene                             | 0.120                     | 0.0038 | "        | 0.150                                    | ND | 80.0        | 70-130        | 2.93 | 30 |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0411</i>             |        | <i>"</i> | <i>0.0400</i>                            |    | <i>103</i>  | <i>50-150</i> |      |    |  |
| <i>Surrogate: Toluene-d8</i>            | <i>0.0399</i>             |        | <i>"</i> | <i>0.0400</i>                            |    | <i>99.8</i> | <i>50-150</i> |      |    |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>0.0391</i>             |        | <i>"</i> | <i>0.0400</i>                            |    | <i>97.8</i> | <i>50-150</i> |      |    |  |

Summit Scientific

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





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

Project: Noble - Cody White D3-2 FL  
Project Number: UWRWE-A2165-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/09/22 13:13

**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 BFH0065 - EPA 3550A**

**Blank (BFH0065-BLK1)**

Prepared & Analyzed: 08/03/22

|               |    |    |       |  |  |  |  |  |  |  |
|---------------|----|----|-------|--|--|--|--|--|--|--|
| C10-C28 (DRO) | ND | 50 | mg/kg |  |  |  |  |  |  |  |
| C28-C36 (ORO) | ND | 50 | "     |  |  |  |  |  |  |  |

**LCS (BFH0065-BS1)**

Prepared & Analyzed: 08/03/22

|               |     |    |       |     |      |        |  |  |  |  |
|---------------|-----|----|-------|-----|------|--------|--|--|--|--|
| C10-C28 (DRO) | 461 | 50 | mg/kg | 500 | 92.1 | 70-130 |  |  |  |  |
|---------------|-----|----|-------|-----|------|--------|--|--|--|--|

**Matrix Spike (BFH0065-MS1)**

Source: 2208019-02

Prepared & Analyzed: 08/03/22

|               |     |    |       |     |      |      |        |  |  |  |
|---------------|-----|----|-------|-----|------|------|--------|--|--|--|
| C10-C28 (DRO) | 457 | 50 | mg/kg | 500 | 29.7 | 85.4 | 70-130 |  |  |  |
|---------------|-----|----|-------|-----|------|------|--------|--|--|--|

**Matrix Spike Dup (BFH0065-MSD1)**

Source: 2208019-02

Prepared & Analyzed: 08/03/22

|               |     |    |       |     |      |      |        |      |    |  |
|---------------|-----|----|-------|-----|------|------|--------|------|----|--|
| C10-C28 (DRO) | 442 | 50 | mg/kg | 500 | 29.7 | 82.4 | 70-130 | 3.31 | 20 |  |
|---------------|-----|----|-------|-----|------|------|--------|------|----|--|

Summit Scientific

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





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

Project: Noble - Cody White D3-2 FL  
Project Number: UWRWE-A2165-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/09/22 13:13

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

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

**Batch BFH0040 - EPA 5030 Soil MS**

**Blank (BFH0040-BLK1)**

Prepared & Analyzed: 08/03/22

|   |               |         |       |               |  |             |  |               |  |  |
|---|---------------|---------|-------|---------------|--|-------------|--|---------------|--|--|
| Acenaphthene                              | ND            | 0.00500 | mg/kg |               |  |             |  |               |  |  |
| Anthracene                                | ND            | 0.00500 | "     |               |  |             |  |               |  |  |
| Benzo (a) anthracene                      | ND            | 0.00500 | "     |               |  |             |  |               |  |  |
| Benzo (a) pyrene                          | ND            | 0.00500 | "     |               |  |             |  |               |  |  |
| Benzo (b) fluoranthene                    | ND            | 0.00500 | "     |               |  |             |  |               |  |  |
| Benzo (k) fluoranthene                    | ND            | 0.00500 | "     |               |  |             |  |               |  |  |
| Chrysene                                  | ND            | 0.00500 | "     |               |  |             |  |               |  |  |
| Dibenz (a,h) anthracene                   | ND            | 0.00500 | "     |               |  |             |  |               |  |  |
| Fluoranthene                              | ND            | 0.00500 | "     |               |  |             |  |               |  |  |
| Fluorene                                  | ND            | 0.00500 | "     |               |  |             |  |               |  |  |
| Indeno (1,2,3-cd) pyrene                  | ND            | 0.00500 | "     |               |  |             |  |               |  |  |
| Pyrene                                    | ND            | 0.00500 | "     |               |  |             |  |               |  |  |
| 1-Methylnaphthalene                       | ND            | 0.00500 | "     |               |  |             |  |               |  |  |
| 2-Methylnaphthalene                       | ND            | 0.00500 | "     |               |  |             |  |               |  |  |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0374</i> |         | "     | <i>0.0333</i> |  | <i>112</i>  |  | <i>40-150</i> |  |  |
| <i>Surrogate: Fluoranthene-d10</i>        | <i>0.0300</i> |         | "     | <i>0.0333</i> |  | <i>89.9</i> |  | <i>40-150</i> |  |  |

**LCS (BFH0040-BS1)**

Prepared & Analyzed: 08/03/22

|   |               |         |       |               |             |               |
|---|---------------|---------|-------|---------------|-------------|---------------|
| Acenaphthene                              | 0.0321        | 0.00500 | mg/kg | 0.0333        | 96.3        | 31-137        |
| Anthracene                                | 0.0339        | 0.00500 | "     | 0.0333        | 102         | 30-120        |
| Benzo (a) anthracene                      | 0.0281        | 0.00500 | "     | 0.0333        | 84.3        | 30-120        |
| Benzo (a) pyrene                          | 0.0311        | 0.00500 | "     | 0.0333        | 93.2        | 30-120        |
| Benzo (b) fluoranthene                    | 0.0324        | 0.00500 | "     | 0.0333        | 97.2        | 30-120        |
| Benzo (k) fluoranthene                    | 0.0375        | 0.00500 | "     | 0.0333        | 112         | 30-120        |
| Chrysene                                  | 0.0328        | 0.00500 | "     | 0.0333        | 98.4        | 30-120        |
| Dibenz (a,h) anthracene                   | 0.0324        | 0.00500 | "     | 0.0333        | 97.3        | 30-120        |
| Fluoranthene                              | 0.0372        | 0.00500 | "     | 0.0333        | 112         | 30-120        |
| Fluorene                                  | 0.0304        | 0.00500 | "     | 0.0333        | 91.2        | 30-120        |
| Indeno (1,2,3-cd) pyrene                  | 0.0289        | 0.00500 | "     | 0.0333        | 86.8        | 30-120        |
| Pyrene                                    | 0.0320        | 0.00500 | "     | 0.0333        | 96.1        | 35-142        |
| 1-Methylnaphthalene                       | 0.0326        | 0.00500 | "     | 0.0333        | 97.8        | 35-142        |
| 2-Methylnaphthalene                       | 0.0304        | 0.00500 | "     | 0.0333        | 91.2        | 35-142        |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0332</i> |         | "     | <i>0.0333</i> | <i>99.7</i> | <i>40-150</i> |
| <i>Surrogate: Fluoranthene-d10</i>        | <i>0.0349</i> |         | "     | <i>0.0333</i> | <i>105</i>  | <i>40-150</i> |

Summit Scientific

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



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

Project: Noble - Cody White D3-2 FL

Project Number: UWRWE-A2165-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/09/22 13:13

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BFH0040 - EPA 5030 Soil MS**

**Matrix Spike (BFH0040-MS1)**

Source: 2207434-01

Prepared & Analyzed: 08/03/22

|                                    |        |         |       |        |    |      |        |  |  |  |
|------------------------------------|--------|---------|-------|--------|----|------|--------|--|--|--|
| Acenaphthene                       | 0.0197 | 0.00500 | mg/kg | 0.0333 | ND | 59.2 | 31-137 |  |  |  |
| Anthracene                         | 0.0241 | 0.00500 | "     | 0.0333 | ND | 72.4 | 30-120 |  |  |  |
| Benzo (a) anthracene               | 0.0219 | 0.00500 | "     | 0.0333 | ND | 65.7 | 30-120 |  |  |  |
| Benzo (a) pyrene                   | 0.0232 | 0.00500 | "     | 0.0333 | ND | 69.7 | 30-120 |  |  |  |
| Benzo (b) fluoranthene             | 0.0225 | 0.00500 | "     | 0.0333 | ND | 67.6 | 30-120 |  |  |  |
| Benzo (k) fluoranthene             | 0.0252 | 0.00500 | "     | 0.0333 | ND | 75.7 | 30-120 |  |  |  |
| Chrysene                           | 0.0246 | 0.00500 | "     | 0.0333 | ND | 73.8 | 30-120 |  |  |  |
| Dibenz (a,h) anthracene            | 0.0231 | 0.00500 | "     | 0.0333 | ND | 69.2 | 30-120 |  |  |  |
| Fluoranthene                       | 0.0272 | 0.00500 | "     | 0.0333 | ND | 81.7 | 30-120 |  |  |  |
| Fluorene                           | 0.0252 | 0.00500 | "     | 0.0333 | ND | 75.7 | 30-120 |  |  |  |
| Indeno (1,2,3-cd) pyrene           | 0.0216 | 0.00500 | "     | 0.0333 | ND | 64.8 | 30-120 |  |  |  |
| Pyrene                             | 0.0266 | 0.00500 | "     | 0.0333 | ND | 79.7 | 35-142 |  |  |  |
| 1-Methylnaphthalene                | 0.0247 | 0.00500 | "     | 0.0333 | ND | 74.1 | 15-130 |  |  |  |
| 2-Methylnaphthalene                | 0.0227 | 0.00500 | "     | 0.0333 | ND | 68.2 | 15-130 |  |  |  |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0198 |         | "     | 0.0333 |    | 59.5 | 40-150 |  |  |  |
| Surrogate: Fluoranthene-d10        | 0.0245 |         | "     | 0.0333 |    | 73.4 | 40-150 |  |  |  |

**Matrix Spike Dup (BFH0040-MSD1)**

Source: 2207434-01

Prepared & Analyzed: 08/03/22

|                                    |        |         |       |        |    |      |        |       |    |
|------------------------------------|--------|---------|-------|--------|----|------|--------|-------|----|
| Acenaphthene                       | 0.0181 | 0.00500 | mg/kg | 0.0333 | ND | 54.3 | 31-137 | 8.74  | 30 |
| Anthracene                         | 0.0227 | 0.00500 | "     | 0.0333 | ND | 68.2 | 30-120 | 6.02  | 30 |
| Benzo (a) anthracene               | 0.0208 | 0.00500 | "     | 0.0333 | ND | 62.4 | 30-120 | 5.13  | 30 |
| Benzo (a) pyrene                   | 0.0220 | 0.00500 | "     | 0.0333 | ND | 65.9 | 30-120 | 5.66  | 30 |
| Benzo (b) fluoranthene             | 0.0209 | 0.00500 | "     | 0.0333 | ND | 62.6 | 30-120 | 7.63  | 30 |
| Benzo (k) fluoranthene             | 0.0234 | 0.00500 | "     | 0.0333 | ND | 70.1 | 30-120 | 7.76  | 30 |
| Chrysene                           | 0.0236 | 0.00500 | "     | 0.0333 | ND | 70.9 | 30-120 | 4.04  | 30 |
| Dibenz (a,h) anthracene            | 0.0218 | 0.00500 | "     | 0.0333 | ND | 65.5 | 30-120 | 5.51  | 30 |
| Fluoranthene                       | 0.0265 | 0.00500 | "     | 0.0333 | ND | 79.5 | 30-120 | 2.71  | 30 |
| Fluorene                           | 0.0254 | 0.00500 | "     | 0.0333 | ND | 76.2 | 30-120 | 0.644 | 30 |
| Indeno (1,2,3-cd) pyrene           | 0.0206 | 0.00500 | "     | 0.0333 | ND | 61.9 | 30-120 | 4.61  | 30 |
| Pyrene                             | 0.0266 | 0.00500 | "     | 0.0333 | ND | 79.9 | 35-142 | 0.275 | 30 |
| 1-Methylnaphthalene                | 0.0214 | 0.00500 | "     | 0.0333 | ND | 64.3 | 15-130 | 14.0  | 50 |
| 2-Methylnaphthalene                | 0.0200 | 0.00500 | "     | 0.0333 | ND | 60.1 | 15-130 | 12.6  | 50 |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0179 |         | "     | 0.0333 |    | 53.6 | 40-150 |       |    |
| Surrogate: Fluoranthene-d10        | 0.0228 |         | "     | 0.0333 |    | 68.4 | 40-150 |       |    |

Summit Scientific

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



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

Project: Noble - Cody White D3-2 FL  
Project Number: UWRWE-A2165-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/09/22 13:13

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

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

**Batch BFH0073 - EPA 3050B**

**Blank (BFH0073-BLK1)**

Prepared: 08/03/22 Analyzed: 08/04/22

Boron ND 0.0100 mg/L

**LCS (BFH0073-BS1)**

Prepared: 08/03/22 Analyzed: 08/04/22

Boron 5.11 0.0100 mg/L 5.00 102 80-120

**Duplicate (BFH0073-DUP1)**

**Source: 2208010-01**

Prepared: 08/03/22 Analyzed: 08/04/22

Boron 0.0783 0.0100 mg/L 0.0867 10.1 20

**Matrix Spike (BFH0073-MS1)**

**Source: 2208010-01**

Prepared: 08/03/22 Analyzed: 08/04/22

Boron 5.06 0.0100 mg/L 5.00 0.0867 99.5 75-125

**Matrix Spike Dup (BFH0073-MSD1)**

**Source: 2208010-01**

Prepared: 08/03/22 Analyzed: 08/04/22

Boron 5.17 0.0100 mg/L 5.00 0.0867 102 75-125 1.98 25

Summit Scientific

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





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

Project: Noble - Cody White D3-2 FL

Project Number: UWRWE-A2165-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/09/22 13:13

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

**Summit Scientific**

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

**Batch BFH0102 - General Preparation**

**Blank (BFH0102-BLK1)**

Prepared: 08/04/22 Analyzed: 08/05/22

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

**LCS (BFH0102-BS1)**

Prepared: 08/04/22 Analyzed: 08/05/22

|           |      |        |          |      |      |        |
|-----------|------|--------|----------|------|------|--------|
| Calcium   | 5.36 | 0.0500 | mg/L wet | 5.00 | 107  | 70-130 |
| Magnesium | 4.98 | 0.0500 | "        | 5.00 | 99.6 | 70-130 |
| Sodium    | 4.79 | 0.0500 | "        | 5.00 | 95.8 | 70-130 |

Summit Scientific

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





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

Project: Noble - Cody White D3-2 FL

Project Number: UWRWE-A2165-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/09/22 13:13

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

**Summit Scientific**

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

**Batch BFH0085 - General Preparation**

| Duplicate (BFH0085-DUP1) | Source: 2207389-06 | Prepared: 08/03/22 | Analyzed: 08/04/22 |       |    |
|--------------------------|--------------------|--------------------|--------------------|-------|----|
| % Solids                 | 91.8               | %                  | 91.6               | 0.135 | 20 |

Summit Scientific

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



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

Project: Noble - Cody White D3-2 FL

Project Number: UWRWE-A2165-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/09/22 13:13

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

**Summit Scientific**

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

**Batch BFH0131 - General Preparation**

**Blank (BFH0131-BLK1)**

Prepared & Analyzed: 08/05/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFH0131-BS1)**

Prepared & Analyzed: 08/05/22

Specific Conductance (EC) 0.153 0.0100 mmhos/cm 0.150 102 95-105

**Duplicate (BFH0131-DUP1)**

Source: 2208028-01

Prepared & Analyzed: 08/05/22

Specific Conductance (EC) 7.84 0.0100 mmhos/cm 7.88 0.560 20

Summit Scientific

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



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

Project: Noble - Cody White D3-2 FL

Project Number: UWRWE-A2165-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/09/22 13:13

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

**Summit Scientific**

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

**Batch BFH0130 - General Preparation**

**LCS (BFH0130-BS1)**

Prepared & Analyzed: 08/05/22

pH 9.02 pH Units 9.18 98.3 95-105

**Duplicate (BFH0130-DUP1)**

Source: 2208028-01

Prepared & Analyzed: 08/05/22

pH 8.04 pH Units 8.03 0.124 20

Summit Scientific

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





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

Project: Noble - Cody White D3-2 FL

Project Number: UWRWE-A2165-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
08/09/22 13:13

### 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

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 28, 2022

Jacob Whritenour  
Tasman Geosciences  
6855 W. 119th Ave.  
Broomfield, CO 80020  
RE: Noble - Cody White D3-2  
Work Order #2209073

Enclosed are the results of analyses for samples received by Summit Scientific on 09/02/22 17:57. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury  
President



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/28/22 14:37

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID   | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-------------|---------------|--------|----------------|----------------|
| FL01-P@2.5' | 2209073-01    | Soil   | 09/02/22 08:55 | 09/02/22 17:57 |
| FL01-S@2.5' | 2209073-02    | Soil   | 09/02/22 10:10 | 09/02/22 17:57 |

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.*

# Summit Scientific

S<sub>2</sub>

2209073

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310

Client: Noble / Tasman Project Manager: Jacob Whritenour Invoice: Cole Moore  
Address: 6855 W. 119th Ave E-Mail: JWhritenour@tasman-geo.com  
City/State/Zip: Broomfield/ CO/ 80020  
Phone: 503-915-3046 Project Name: Cody White D3-2  
Sampler Name: Martin Medeiros Project Number:

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative |      |      |       | Matrix |      |                |       | Analysis Requested |         |         |             |           | Special Instructions |  |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|----------------|-------|--------------------|---------|---------|-------------|-----------|----------------------|--|
|    |                    |              |              |                 | HCl          | HNO3 | None | Other | Water  | Soil | Air-Canister # | Other | VOC-915            | TPH-915 | PAH-915 | pH, EC, SAR | Boron-HWS |                      |  |
| 1  | FL01-P@2.5'        | 09/02/22     | 08:55        | 3               |              |      | X    |       |        | X    |                |       | X                  | X       | X       | X           | X         |                      |  |
| 2  | FL01-S@2.5'        | 09/02/22     | 10:10        | 3               |              |      | X    |       |        | X    |                |       | X                  | X       | X       | X           | X         |                      |  |
| 3  |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |         |         |             |           |                      |  |
| 4  |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |         |         |             |           |                      |  |
| 5  |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |         |         |             |           |                      |  |
| 6  |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |         |         |             |           |                      |  |
| 7  |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |         |         |             |           |                      |  |
| 8  |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |         |         |             |           |                      |  |
| 9  |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |         |         |             |           |                      |  |
| 10 |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |         |         |             |           |                      |  |

|   |   |                         |  |        |
|---|---|-------------------------|--|--------|
| Relinquished by: <i>Martin Medeiros</i><br>Martin Medeiros<br>Date/Time: 09/02/22 15:30   | Received by: <i>Tasman's Lock Box</i><br>Tasman's Lock Box<br>Date/Time: 9/2/22 17:57 | Date/Time: 9/2/22 17:52 | Turn Around Time (Check)<br>Same Day _____ 72 hours<br>24 hours _____ Standard <input checked="" type="checkbox"/><br>48 hours _____ | Notes: |
| Relinquished by: <i>Tasman's Lock Box</i><br>Tasman's Lock Box<br>Date/Time: 9/2/22 17:57 | Received by: <i>[Signature]</i><br>Date/Time: 9/2/22 17:52                            | Date/Time: 9/2/22 17:52 | Sample Integrity:<br>Temperature Upon Receipt: 12.1  |        |
| Relinquished by: _____<br>Date/Time: _____  | Received by: _____<br>Date/Time: _____  | Date/Time: _____        | Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No  |        |

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2209073

Client: Noble Harsman Client Project ID: Cody white D3-2

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

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

Temp (°C)  Thermometer #

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

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

[Signature]  
Custodian Printed Name

9-2-22 18:35  
Date/Time



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/28/22 14:37

**FL01-P@2.5'**  
**2209073-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/02/22 08:55**

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene                     | ND     | 0.0020          | mg/kg | 1        | BFI0138 | 09/07/22 | 09/08/22 | 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: **09/02/22 08:55**

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 |        | 128 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 103 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 96.2 %          | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/02/22 08:55**

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | BFI0141 | 09/07/22 | 09/08/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **09/02/22 08:55**

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl |        | 58.2 %          | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

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 - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/28/22 14:37

**FL01-P@2.5'**  
**2209073-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **09/02/22 08:55**

| Analyte                  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene             | 0.0312 | 0.00500         | mg/kg | 1        | BFI0163 | 09/08/22 | 09/10/22 | EPA 8270D SIM |       |
| Anthracene               | 0.0877 | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) anthracene     | 0.161  | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (a) pyrene         | 0.129  | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Benzo (b) fluoranthene   | 0.183  | 0.0500          | "     | 10       | "       | "        | 09/12/22 | "             |       |
| Benzo (k) fluoranthene   | 0.0854 | 0.00500         | "     | 1        | "       | "        | 09/10/22 | "             |       |
| Chrysene                 | 0.161  | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Dibenz (a,h) anthracene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene             | 0.619  | 0.0500          | "     | 10       | "       | "        | 09/12/22 | "             |       |
| Fluorene                 | 0.0502 | 0.00500         | "     | 1        | "       | "        | 09/10/22 | "             |       |
| Indeno (1,2,3-cd) pyrene | 0.0433 | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene                   | 0.313  | 0.0500          | "     | 10       | "       | "        | 09/12/22 | "             |       |
| 1-Methylnaphthalene      | ND     | 0.00500         | "     | 1        | "       | "        | 09/10/22 | "             |       |
| 2-Methylnaphthalene      | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **09/02/22 08:55**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 |        | 72.3 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        |        | 43.8 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **09/02/22 08:55**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron   | 1.99   | 0.0100          | mg/L  | 1        | BFI0208 | 09/09/22 | 09/10/22 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **09/02/22 08:55**

| Analyte | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 7.92   | 0.272           | mg/kg dry | 1        | BFI0760 | 09/29/22 | 10/04/22 | EPA 6020B |       |

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 - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/28/22 14:37

**FL01-P@2.5'**  
**2209073-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

| Analyte  | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Barium   | 198    | 0.544           | mg/kg dry | 1        | BF10760 | 09/29/22 | 10/04/22 | EPA 6020B |       |
| Cadmium  | 0.432  | 0.272           | "         | "        | "       | "        | "        | "         |       |
| Copper   | 27.1   | 0.544           | "         | "        | "       | "        | "        | "         |       |
| Lead     | 17.2   | 0.272           | "         | "        | "       | "        | "        | "         |       |
| Nickel   | 20.1   | 0.544           | "         | "        | "       | "        | "        | "         |       |
| Selenium | 2.74   | 0.354           | "         | "        | "       | "        | "        | "         |       |
| Silver   | 0.108  | 0.0272          | "         | "        | "       | "        | "        | "         |       |
| Zinc     | 103    | 0.544           | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **09/02/22 08:55**

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BF10741 | 09/28/22 | 10/28/22 | EPA 7196A | 1-04  |

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

Date Sampled: **09/02/22 08:55**

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 455    | 0.0681          | mg/L dry | 1        | BF10240 | 09/11/22 | 09/13/22 | EPA 6020B |       |
| Magnesium | 569    | 0.0681          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 3180   | 0.0681          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **09/02/22 08:55**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 23.5   | 0.00100         | units | 1        | BF10283 | 09/13/22 | 09/13/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/02/22 08:55**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 73.5   |                 | %     | 1        | BF10181 | 09/08/22 | 09/09/22 | Calculation |       |

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 - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/28/22 14:37

**FL01-P@2.5'**  
**2209073-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **09/02/22 08:55**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 7.52   | 0.0100          | mmhos/cm | 1        | BFI0255 | 09/12/22 | 09/12/22 | EPA 120.1 |       |

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

Date Sampled: **09/02/22 08:55**

| Analyte | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH      | 7.96   |                 | pH Units | 1        | BFI0256 | 09/12/22 | 09/12/22 | EPA 9045D |       |

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/28/22 14:37

**FL01-S@2.5'**  
**2209073-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/02/22 10:10**

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene                     | ND     | 0.0020          | mg/kg | 1        | BFI0138 | 09/07/22 | 09/08/22 | 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: **09/02/22 10:10**

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 |        | 124 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 101 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 91.9 %          | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/02/22 10:10**

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | BFI0141 | 09/07/22 | 09/08/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **09/02/22 10:10**

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl |        | 98.4 %          | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

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 - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/28/22 14:37

**FL01-S@2.5'**  
**2209073-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **09/02/22 10:10**

| Analyte                         | Result         | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|---------------------------------|----------------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene                    | ND             | 0.00500         | mg/kg | 1        | BF10163 | 09/08/22 | 09/10/22 | EPA 8270D SIM |       |
| <b>Anthracene</b>               | <b>0.0102</b>  | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| <b>Benzo (a) anthracene</b>     | <b>0.0290</b>  | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| <b>Benzo (a) pyrene</b>         | <b>0.0235</b>  | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| <b>Benzo (b) fluoranthene</b>   | <b>0.0444</b>  | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| <b>Benzo (k) fluoranthene</b>   | <b>0.0148</b>  | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| <b>Chrysene</b>                 | <b>0.0278</b>  | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Dibenz (a,h) anthracene         | ND             | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| <b>Fluoranthene</b>             | <b>0.101</b>   | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| <b>Fluorene</b>                 | <b>0.00578</b> | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| <b>Indeno (1,2,3-cd) pyrene</b> | <b>0.00755</b> | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| <b>Pyrene</b>                   | <b>0.0742</b>  | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene             | ND             | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene             | ND             | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **09/02/22 10:10**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 |        | 52.7 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        |        | 40.4 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **09/02/22 10:10**

| Analyte      | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|-------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>1.79</b> | 0.0100          | mg/L  | 1        | BF10208 | 09/09/22 | 09/10/22 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **09/02/22 10:10**

| Analyte        | Result      | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------|-------------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| <b>Arsenic</b> | <b>2.36</b> | 0.223           | mg/kg dry | 1        | BF10760 | 09/29/22 | 10/04/22 | EPA 6020B |       |

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 - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/28/22 14:37

**FL01-S@2.5'**  
**2209073-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

| Analyte  | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Barium   | 76.0   | 0.445           | mg/kg dry | 1        | BF10760 | 09/29/22 | 10/04/22 | EPA 6020B |       |
| Cadmium  | ND     | 0.223           | "         | "        | "       | "        | "        | "         |       |
| Copper   | 7.49   | 0.445           | "         | "        | "       | "        | "        | "         |       |
| Lead     | 6.15   | 0.223           | "         | "        | "       | "        | "        | "         |       |
| Nickel   | 7.30   | 0.445           | "         | "        | "       | "        | "        | "         |       |
| Selenium | 0.975  | 0.289           | "         | "        | "       | "        | "        | "         |       |
| Silver   | 0.0376 | 0.0223          | "         | "        | "       | "        | "        | "         |       |
| Zinc     | 30.3   | 0.445           | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **09/02/22 10:10**

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BF10741 | 09/28/22 | 10/28/22 | EPA 7196A | I-04  |

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

Date Sampled: **09/02/22 10:10**

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 337    | 0.0557          | mg/L dry | 1        | BF10240 | 09/11/22 | 09/13/22 | EPA 6020B |       |
| Magnesium | 271    | 0.0557          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 1000   | 0.0557          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **09/02/22 10:10**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 9.84   | 0.00100         | units | 1        | BF10283 | 09/13/22 | 09/13/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/02/22 10:10**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 89.8   |                 | %     | 1        | BF10181 | 09/08/22 | 09/09/22 | Calculation |       |

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 - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/28/22 14:37

**FL01-S@2.5'**  
**2209073-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **09/02/22 10:10**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 6.46   | 0.0100          | mmhos/cm | 1        | BFI0255 | 09/12/22 | 09/12/22 | EPA 120.1 |       |

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

Date Sampled: **09/02/22 10:10**

| Analyte | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH      | 7.97   |                 | pH Units | 1        | BFI0256 | 09/12/22 | 09/12/22 | EPA 9045D |       |

Summit Scientific

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





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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/28/22 14:37

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

#### Summit Scientific

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

#### Batch BFI0138 - EPA 5030 Soil MS

##### Blank (BFI0138-BLK1)

Prepared & Analyzed: 09/07/22

|   |        |        |       |        |  |      |        |  |  |  |  |
|---|--------|--------|-------|--------|--|------|--------|--|--|--|--|
| 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> | 0.0499 |        | "     | 0.0400 |  | 125  | 50-150 |  |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 0.0397 |        | "     | 0.0400 |  | 99.3 | 50-150 |  |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 0.0380 |        | "     | 0.0400 |  | 95.1 | 50-150 |  |  |  |  |

##### LCS (BFI0138-BS1)

Prepared & Analyzed: 09/07/22

|   |        |        |       |        |  |      |        |  |  |  |  |
|---|--------|--------|-------|--------|--|------|--------|--|--|--|--|
| Benzene                                 | 0.0552 | 0.0020 | mg/kg | 0.0750 |  | 73.6 | 70-130 |  |  |  |  |
| Toluene                                 | 0.0596 | 0.0050 | "     | 0.0750 |  | 79.4 | 70-130 |  |  |  |  |
| Ethylbenzene                            | 0.0581 | 0.0050 | "     | 0.0750 |  | 77.5 | 70-130 |  |  |  |  |
| m,p-Xylene                              | 0.112  | 0.010  | "     | 0.150  |  | 74.6 | 70-130 |  |  |  |  |
| o-Xylene                                | 0.0534 | 0.0050 | "     | 0.0750 |  | 71.2 | 70-130 |  |  |  |  |
| 1,2,4-Trimethylbenzene                  | 0.0537 | 0.0050 | "     | 0.0750 |  | 71.6 | 70-130 |  |  |  |  |
| 1,3,5-Trimethylbenzene                  | 0.0547 | 0.0050 | "     | 0.0750 |  | 72.9 | 70-130 |  |  |  |  |
| Naphthalene                             | 0.0539 | 0.0038 | "     | 0.0750 |  | 71.9 | 70-130 |  |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0416 |        | "     | 0.0400 |  | 104  | 50-150 |  |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 0.0406 |        | "     | 0.0400 |  | 101  | 50-150 |  |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 0.0386 |        | "     | 0.0400 |  | 96.5 | 50-150 |  |  |  |  |

##### Matrix Spike (BFI0138-MS1)

Source: 2209026-15

Prepared & Analyzed: 09/07/22

|   |        |        |       |        |    |      |        |  |  |  |  |
|---|--------|--------|-------|--------|----|------|--------|--|--|--|--|
| Benzene                                 | 0.0564 | 0.0020 | mg/kg | 0.0750 | ND | 75.2 | 70-130 |  |  |  |  |
| Toluene                                 | 0.0568 | 0.0050 | "     | 0.0750 | ND | 75.7 | 70-130 |  |  |  |  |
| Ethylbenzene                            | 0.0562 | 0.0050 | "     | 0.0750 | ND | 74.9 | 70-130 |  |  |  |  |
| m,p-Xylene                              | 0.109  | 0.010  | "     | 0.150  | ND | 72.7 | 70-130 |  |  |  |  |
| o-Xylene                                | 0.0538 | 0.0050 | "     | 0.0750 | ND | 71.8 | 70-130 |  |  |  |  |
| 1,2,4-Trimethylbenzene                  | 0.0548 | 0.0050 | "     | 0.0750 | ND | 73.1 | 70-130 |  |  |  |  |
| 1,3,5-Trimethylbenzene                  | 0.0534 | 0.0050 | "     | 0.0750 | ND | 71.2 | 70-130 |  |  |  |  |
| Naphthalene                             | 0.0635 | 0.0038 | "     | 0.0750 | ND | 84.7 | 70-130 |  |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0480 |        | "     | 0.0400 |    | 120  | 50-150 |  |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 0.0406 |        | "     | 0.0400 |    | 102  | 50-150 |  |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 0.0395 |        | "     | 0.0400 |    | 98.7 | 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 - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/28/22 14:37

**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 BFI0138 - EPA 5030 Soil MS**

| <b>Matrix Spike Dup (BFI0138-MSD1)</b>  | <b>Source: 2209026-15</b> |        |          | <b>Prepared &amp; Analyzed: 09/07/22</b> |    |            |               |       |    |  |
|---|---------------------------|--------|----------|--|----|------------|---------------|-------|----|--|
| Benzene                                 | 0.0536                    | 0.0020 | mg/kg    | 0.0750                                   | ND | 71.5       | 70-130        | 5.02  | 30 |  |
| Toluene                                 | 0.0549                    | 0.0050 | "        | 0.0750                                   | ND | 73.2       | 70-130        | 3.28  | 30 |  |
| Ethylbenzene                            | 0.0565                    | 0.0050 | "        | 0.0750                                   | ND | 75.3       | 70-130        | 0.533 | 30 |  |
| m,p-Xylene                              | 0.114                     | 0.010  | "        | 0.150                                    | ND | 75.8       | 70-130        | 4.20  | 30 |  |
| o-Xylene                                | 0.0545                    | 0.0050 | "        | 0.0750                                   | ND | 72.6       | 70-130        | 1.16  | 30 |  |
| 1,2,4-Trimethylbenzene                  | 0.0530                    | 0.0050 | "        | 0.0750                                   | ND | 70.6       | 70-130        | 3.45  | 30 |  |
| 1,3,5-Trimethylbenzene                  | 0.0542                    | 0.0050 | "        | 0.0750                                   | ND | 72.2       | 70-130        | 1.45  | 30 |  |
| Naphthalene                             | 0.0627                    | 0.0038 | "        | 0.0750                                   | ND | 83.6       | 70-130        | 1.33  | 30 |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0490</i>             |        | <i>"</i> | <i>0.0400</i>                            |    | <i>123</i> | <i>50-150</i> |       |    |  |
| <i>Surrogate: Toluene-d8</i>            | <i>0.0409</i>             |        | <i>"</i> | <i>0.0400</i>                            |    | <i>102</i> | <i>50-150</i> |       |    |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>0.0401</i>             |        | <i>"</i> | <i>0.0400</i>                            |    | <i>100</i> | <i>50-150</i> |       |    |  |

Summit Scientific

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





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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/28/22 14:37

**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 BFI0141 - EPA 3550A**

**Blank (BFI0141-BLK1)**

Prepared: 09/07/22 Analyzed: 09/08/22

|               |    |    |       |  |  |  |  |  |  |  |
|---------------|----|----|-------|--|--|--|--|--|--|--|
| C10-C28 (DRO) | ND | 50 | mg/kg |  |  |  |  |  |  |  |
| C28-C36 (ORO) | ND | 50 | "     |  |  |  |  |  |  |  |

**LCS (BFI0141-BS1)**

Prepared: 09/07/22 Analyzed: 09/08/22

|               |     |    |       |     |  |      |        |  |  |  |
|---------------|-----|----|-------|-----|--|------|--------|--|--|--|
| C10-C28 (DRO) | 461 | 50 | mg/kg | 500 |  | 92.2 | 70-130 |  |  |  |
|---------------|-----|----|-------|-----|--|------|--------|--|--|--|

**Matrix Spike (BFI0141-MS1)**

Source: 2209026-15

Prepared: 09/07/22 Analyzed: 09/08/22

|               |     |    |       |     |    |      |        |  |  |  |
|---------------|-----|----|-------|-----|----|------|--------|--|--|--|
| C10-C28 (DRO) | 432 | 50 | mg/kg | 500 | ND | 86.4 | 70-130 |  |  |  |
|---------------|-----|----|-------|-----|----|------|--------|--|--|--|

**Matrix Spike Dup (BFI0141-MSD1)**

Source: 2209026-15

Prepared: 09/07/22 Analyzed: 09/08/22

|               |     |    |       |     |    |     |        |      |    |  |
|---------------|-----|----|-------|-----|----|-----|--------|------|----|--|
| C10-C28 (DRO) | 523 | 50 | mg/kg | 500 | ND | 105 | 70-130 | 19.2 | 20 |  |
|---------------|-----|----|-------|-----|----|-----|--------|------|----|--|

Summit Scientific

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





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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/28/22 14:37

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BFI0163 - EPA 5030 Soil MS**

**Blank (BFI0163-BLK1)**

Prepared: 09/08/22 Analyzed: 09/10/22

|                                    |        |         |       |        |  |      |        |  |  |  |
|------------------------------------|--------|---------|-------|--------|--|------|--------|--|--|--|
| 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 | 0.0351 |         | "     | 0.0333 |  | 105  | 40-150 |  |  |  |
| Surrogate: Fluoranthene-d10        | 0.0250 |         | "     | 0.0333 |  | 75.1 | 40-150 |  |  |  |

**LCS (BFI0163-BS1)**

Prepared: 09/08/22 Analyzed: 09/10/22

|                                    |        |         |       |        |  |      |        |  |  |  |
|------------------------------------|--------|---------|-------|--------|--|------|--------|--|--|--|
| Acenaphthene                       | 0.0343 | 0.00500 | mg/kg | 0.0333 |  | 103  | 31-137 |  |  |  |
| Anthracene                         | 0.0360 | 0.00500 | "     | 0.0333 |  | 108  | 30-120 |  |  |  |
| Benzo (a) anthracene               | 0.0277 | 0.00500 | "     | 0.0333 |  | 83.1 | 30-120 |  |  |  |
| Benzo (a) pyrene                   | 0.0321 | 0.00500 | "     | 0.0333 |  | 96.3 | 30-120 |  |  |  |
| Benzo (b) fluoranthene             | 0.0395 | 0.00500 | "     | 0.0333 |  | 118  | 30-120 |  |  |  |
| Benzo (k) fluoranthene             | 0.0332 | 0.00500 | "     | 0.0333 |  | 99.5 | 30-120 |  |  |  |
| Chrysene                           | 0.0341 | 0.00500 | "     | 0.0333 |  | 102  | 30-120 |  |  |  |
| Dibenz (a,h) anthracene            | 0.0246 | 0.00500 | "     | 0.0333 |  | 73.9 | 30-120 |  |  |  |
| Fluoranthene                       | 0.0364 | 0.00500 | "     | 0.0333 |  | 109  | 30-120 |  |  |  |
| Fluorene                           | 0.0367 | 0.00500 | "     | 0.0333 |  | 110  | 30-120 |  |  |  |
| Indeno (1,2,3-cd) pyrene           | 0.0207 | 0.00500 | "     | 0.0333 |  | 62.2 | 30-120 |  |  |  |
| Pyrene                             | 0.0383 | 0.00500 | "     | 0.0333 |  | 115  | 35-142 |  |  |  |
| 1-Methylnaphthalene                | 0.0348 | 0.00500 | "     | 0.0333 |  | 104  | 35-142 |  |  |  |
| 2-Methylnaphthalene                | 0.0333 | 0.00500 | "     | 0.0333 |  | 100  | 35-142 |  |  |  |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0353 |         | "     | 0.0333 |  | 106  | 40-150 |  |  |  |
| Surrogate: Fluoranthene-d10        | 0.0328 |         | "     | 0.0333 |  | 98.5 | 40-150 |  |  |  |

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/28/22 14:37

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BFI0163 - EPA 5030 Soil MS**

| <b>Matrix Spike (BFI0163-MS1)</b>         |               | <b>Source: 2209052-01</b> |       |               | Prepared: 09/08/22 |             | Analyzed: 09/10/22 |  |
|---|---------------|---------------------------|-------|---------------|--------------------|-------------|--------------------|--|
| Acenaphthene                              | 0.0179        | 0.00500                   | mg/kg | 0.0333        | ND                 | 53.6        | 31-137             |  |
| Anthracene                                | 0.0198        | 0.00500                   | "     | 0.0333        | ND                 | 59.4        | 30-120             |  |
| Benzo (a) anthracene                      | 0.0179        | 0.00500                   | "     | 0.0333        | ND                 | 53.8        | 30-120             |  |
| Benzo (a) pyrene                          | 0.0212        | 0.00500                   | "     | 0.0333        | ND                 | 63.6        | 30-120             |  |
| Benzo (b) fluoranthene                    | 0.0261        | 0.00500                   | "     | 0.0333        | ND                 | 78.4        | 30-120             |  |
| Benzo (k) fluoranthene                    | 0.0339        | 0.00500                   | "     | 0.0333        | ND                 | 102         | 30-120             |  |
| Chrysene                                  | 0.0197        | 0.00500                   | "     | 0.0333        | ND                 | 59.2        | 30-120             |  |
| Dibenz (a,h) anthracene                   | 0.0148        | 0.00500                   | "     | 0.0333        | ND                 | 44.5        | 30-120             |  |
| Fluoranthene                              | 0.0201        | 0.00500                   | "     | 0.0333        | ND                 | 60.4        | 30-120             |  |
| Fluorene                                  | 0.0193        | 0.00500                   | "     | 0.0333        | ND                 | 58.0        | 30-120             |  |
| Indeno (1,2,3-cd) pyrene                  | 0.0139        | 0.00500                   | "     | 0.0333        | ND                 | 41.8        | 30-120             |  |
| Pyrene                                    | 0.0238        | 0.00500                   | "     | 0.0333        | ND                 | 71.5        | 35-142             |  |
| 1-Methylnaphthalene                       | 0.0210        | 0.00500                   | "     | 0.0333        | ND                 | 62.9        | 15-130             |  |
| 2-Methylnaphthalene                       | 0.0184        | 0.00500                   | "     | 0.0333        | ND                 | 55.2        | 15-130             |  |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0208</i> |                           | "     | <i>0.0333</i> |                    | <i>62.5</i> | <i>40-150</i>      |  |
| <i>Surrogate: Fluoranthene-d10</i>        | <i>0.0182</i> |                           | "     | <i>0.0333</i> |                    | <i>54.7</i> | <i>40-150</i>      |  |

| <b>Matrix Spike Dup (BFI0163-MSD1)</b>    |               | <b>Source: 2209052-01</b> |       |               | Prepared: 09/08/22 |             | Analyzed: 09/10/22 |         |
|---|---------------|---------------------------|-------|---------------|--------------------|-------------|--------------------|---------|
| Acenaphthene                              | 0.0194        | 0.00500                   | mg/kg | 0.0333        | ND                 | 58.3        | 31-137             | 8.43 30 |
| Anthracene                                | 0.0235        | 0.00500                   | "     | 0.0333        | ND                 | 70.4        | 30-120             | 16.9 30 |
| Benzo (a) anthracene                      | 0.0204        | 0.00500                   | "     | 0.0333        | ND                 | 61.3        | 30-120             | 13.1 30 |
| Benzo (a) pyrene                          | 0.0241        | 0.00500                   | "     | 0.0333        | ND                 | 72.3        | 30-120             | 12.8 30 |
| Benzo (b) fluoranthene                    | 0.0304        | 0.00500                   | "     | 0.0333        | ND                 | 91.1        | 30-120             | 15.0 30 |
| Benzo (k) fluoranthene                    | 0.0399        | 0.00500                   | "     | 0.0333        | ND                 | 120         | 30-120             | 16.2 30 |
| Chrysene                                  | 0.0230        | 0.00500                   | "     | 0.0333        | ND                 | 68.9        | 30-120             | 15.1 30 |
| Dibenz (a,h) anthracene                   | 0.0181        | 0.00500                   | "     | 0.0333        | ND                 | 54.2        | 30-120             | 19.7 30 |
| Fluoranthene                              | 0.0254        | 0.00500                   | "     | 0.0333        | ND                 | 76.2        | 30-120             | 23.3 30 |
| Fluorene                                  | 0.0204        | 0.00500                   | "     | 0.0333        | ND                 | 61.1        | 30-120             | 5.26 30 |
| Indeno (1,2,3-cd) pyrene                  | 0.0152        | 0.00500                   | "     | 0.0333        | ND                 | 45.7        | 30-120             | 8.83 30 |
| Pyrene                                    | 0.0289        | 0.00500                   | "     | 0.0333        | ND                 | 86.6        | 35-142             | 19.2 30 |
| 1-Methylnaphthalene                       | 0.0230        | 0.00500                   | "     | 0.0333        | ND                 | 68.9        | 15-130             | 9.06 50 |
| 2-Methylnaphthalene                       | 0.0214        | 0.00500                   | "     | 0.0333        | ND                 | 64.1        | 15-130             | 15.0 50 |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0229</i> |                           | "     | <i>0.0333</i> |                    | <i>68.8</i> | <i>40-150</i>      |         |
| <i>Surrogate: Fluoranthene-d10</i>        | <i>0.0223</i> |                           | "     | <i>0.0333</i> |                    | <i>66.8</i> | <i>40-150</i>      |         |

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/28/22 14:37

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

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

**Batch BFI0208 - EPA 3050B**

**Blank (BFI0208-BLK1)**

Prepared: 09/09/22 Analyzed: 09/10/22

Boron ND 0.0100 mg/L

**LCS (BFI0208-BS1)**

Prepared: 09/09/22 Analyzed: 09/10/22

Boron 5.03 0.0100 mg/L 5.00 101 80-120

**Duplicate (BFI0208-DUP1)**

Source: 2209047-03

Prepared: 09/09/22 Analyzed: 09/10/22

Boron 0.106 0.0100 mg/L 0.111 4.50 20

**Matrix Spike (BFI0208-MS1)**

Source: 2209047-03

Prepared: 09/09/22 Analyzed: 09/10/22

Boron 5.09 0.0100 mg/L 5.00 0.111 99.6 75-125

**Matrix Spike Dup (BFI0208-MSD1)**

Source: 2209047-03

Prepared: 09/09/22 Analyzed: 09/10/22

Boron 5.14 0.0100 mg/L 5.00 0.111 101 75-125 0.995 25

Summit Scientific

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





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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/28/22 14:37

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFI0760 - EPA 3050B**

**Blank (BFI0760-BLK1)**

Prepared: 09/29/22 Analyzed: 10/04/22

|          |    |        |           |  |  |  |  |  |  |
|----------|----|--------|-----------|--|--|--|--|--|--|
| 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  | "         |  |  |  |  |  |  |
| Selenium | ND | 0.260  | "         |  |  |  |  |  |  |
| Silver   | ND | 0.0200 | "         |  |  |  |  |  |  |
| Zinc     | ND | 0.400  | "         |  |  |  |  |  |  |

**LCS (BFI0760-BS1)**

Prepared: 09/29/22 Analyzed: 10/04/22

|          |      |        |           |      |  |     |        |
|----------|------|--------|-----------|------|--|-----|--------|
| Arsenic  | 45.1 | 0.200  | mg/kg wet | 40.0 |  | 113 | 80-120 |
| Barium   | 47.3 | 0.400  | "         | 40.0 |  | 118 | 80-120 |
| Cadmium  | 2.33 | 0.200  | "         | 2.00 |  | 117 | 80-120 |
| Copper   | 46.1 | 0.400  | "         | 40.0 |  | 115 | 80-120 |
| Lead     | 23.1 | 0.200  | "         | 20.0 |  | 115 | 80-120 |
| Nickel   | 45.1 | 0.400  | "         | 40.0 |  | 113 | 80-120 |
| Selenium | 4.48 | 0.260  | "         | 4.00 |  | 112 | 80-120 |
| Silver   | 2.27 | 0.0200 | "         | 2.00 |  | 113 | 80-120 |
| Zinc     | 45.2 | 0.400  | "         | 40.0 |  | 113 | 80-120 |

**Duplicate (BFI0760-DUP1)**

Source: 2209073-01

Prepared: 09/29/22 Analyzed: 10/04/22

|          |       |        |           |       |  |       |    |
|----------|-------|--------|-----------|-------|--|-------|----|
| Arsenic  | 8.15  | 0.272  | mg/kg dry | 7.92  |  | 2.86  | 20 |
| Barium   | 205   | 0.544  | "         | 198   |  | 3.20  | 20 |
| Cadmium  | 0.441 | 0.272  | "         | 0.432 |  | 2.05  | 20 |
| Copper   | 27.7  | 0.544  | "         | 27.1  |  | 2.15  | 20 |
| Lead     | 17.3  | 0.272  | "         | 17.2  |  | 0.349 | 20 |
| Nickel   | 20.7  | 0.544  | "         | 20.1  |  | 2.89  | 20 |
| Selenium | 2.84  | 0.354  | "         | 2.74  |  | 3.73  | 20 |
| Silver   | 0.110 | 0.0272 | "         | 0.108 |  | 1.07  | 20 |
| Zinc     | 106   | 0.544  | "         | 103   |  | 2.68  | 20 |

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/28/22 14:37

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFI0760 - EPA 3050B**

**Matrix Spike (BFI0760-MS1)**

Source: 2209073-01

Prepared: 09/29/22 Analyzed: 10/04/22

|          |      |        |           |      |       |      |        |  |  |  |
|----------|------|--------|-----------|------|-------|------|--------|--|--|--|
| Arsenic  | 69.0 | 0.272  | mg/kg dry | 54.4 | 7.92  | 112  | 75-125 |  |  |  |
| Barium   | 266  | 0.544  | "         | 54.4 | 198   | 125  | 75-125 |  |  |  |
| Cadmium  | 3.51 | 0.272  | "         | 2.72 | 0.432 | 113  | 75-125 |  |  |  |
| Copper   | 86.1 | 0.544  | "         | 54.4 | 27.1  | 108  | 75-125 |  |  |  |
| Lead     | 44.0 | 0.272  | "         | 27.2 | 17.2  | 98.3 | 75-125 |  |  |  |
| Nickel   | 78.9 | 0.544  | "         | 54.4 | 20.1  | 108  | 75-125 |  |  |  |
| Selenium | 7.78 | 0.354  | "         | 5.44 | 2.74  | 92.7 | 75-125 |  |  |  |
| Silver   | 3.08 | 0.0272 | "         | 2.72 | 0.108 | 109  | 75-125 |  |  |  |
| Zinc     | 166  | 0.544  | "         | 54.4 | 103   | 115  | 75-125 |  |  |  |

**Matrix Spike Dup (BFI0760-MSD1)**

Source: 2209073-01

Prepared: 09/29/22 Analyzed: 10/04/22

|          |      |        |           |      |       |      |        |       |    |       |
|----------|------|--------|-----------|------|-------|------|--------|-------|----|-------|
| Arsenic  | 68.8 | 0.272  | mg/kg dry | 54.4 | 7.92  | 112  | 75-125 | 0.240 | 25 |       |
| Barium   | 269  | 0.544  | "         | 54.4 | 198   | 130  | 75-125 | 1.16  | 25 | QM-05 |
| Cadmium  | 3.53 | 0.272  | "         | 2.72 | 0.432 | 114  | 75-125 | 0.488 | 25 |       |
| Copper   | 87.6 | 0.544  | "         | 54.4 | 27.1  | 111  | 75-125 | 1.73  | 25 |       |
| Lead     | 44.4 | 0.272  | "         | 27.2 | 17.2  | 99.8 | 75-125 | 0.922 | 25 |       |
| Nickel   | 78.5 | 0.544  | "         | 54.4 | 20.1  | 107  | 75-125 | 0.626 | 25 |       |
| Selenium | 8.48 | 0.354  | "         | 5.44 | 2.74  | 105  | 75-125 | 8.57  | 25 |       |
| Silver   | 3.10 | 0.0272 | "         | 2.72 | 0.108 | 110  | 75-125 | 0.875 | 25 |       |
| Zinc     | 164  | 0.544  | "         | 54.4 | 103   | 112  | 75-125 | 1.02  | 25 |       |

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/28/22 14:37

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BFI0741 - 3060A Mod**

**Blank (BFI0741-BLK1)**

Prepared & Analyzed: 09/28/22

Chromium, Hexavalent      ND      0.30 mg/kg wet

**LCS (BFI0741-BS1)**

Prepared & Analyzed: 09/28/22

Chromium, Hexavalent      24.6      0.30 mg/kg wet      25.0      98.2      80-120

**Duplicate (BFI0741-DUP1)**

**Source: 2209333-21**

Prepared & Analyzed: 09/28/22

Chromium, Hexavalent      ND      0.30 mg/kg dry      ND      20

**Matrix Spike (BFI0741-MS1)**

**Source: 2209333-21**

Prepared & Analyzed: 09/28/22

Chromium, Hexavalent      24.9      0.30 mg/kg dry      25.7      ND      97.0      75-125

**Matrix Spike Dup (BFI0741-MSD1)**

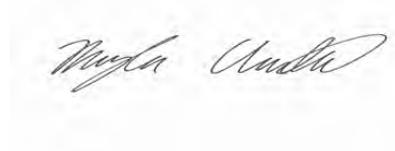
**Source: 2209333-21**

Prepared & Analyzed: 09/28/22

Chromium, Hexavalent      26.8      0.30 mg/kg dry      25.7      ND      104      75-125      7.35      20

Summit Scientific

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





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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/28/22 14:37

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

**Summit Scientific**

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

**Batch BFI0240 - General Preparation**

**Blank (BFI0240-BLK1)**

Prepared: 09/11/22 Analyzed: 09/13/22

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

**LCS (BFI0240-BS1)**

Prepared: 09/11/22 Analyzed: 09/13/22

|           |      |        |          |      |  |     |        |  |  |  |
|-----------|------|--------|----------|------|--|-----|--------|--|--|--|
| Calcium   | 6.16 | 0.0500 | mg/L wet | 5.00 |  | 123 | 70-130 |  |  |  |
| Magnesium | 6.11 | 0.0500 | "        | 5.00 |  | 122 | 70-130 |  |  |  |
| Sodium    | 6.13 | 0.0500 | "        | 5.00 |  | 123 | 70-130 |  |  |  |

Summit Scientific

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





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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/28/22 14:37

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

**Summit Scientific**

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

**Batch BFI0181 - General Preparation**

**Duplicate (BFI0181-DUP1)**

Source: 2209072-03

Prepared: 09/08/22 Analyzed: 09/09/22

|          |      |  |   |  |      |  |  |       |    |  |
|----------|------|--|---|--|------|--|--|-------|----|--|
| % Solids | 94.3 |  | % |  | 94.7 |  |  | 0.343 | 20 |  |
|----------|------|--|---|--|------|--|--|-------|----|--|

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/28/22 14:37

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

**Summit Scientific**

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

**Batch BFI0255 - General Preparation**

**Blank (BFI0255-BLK1)**

Prepared & Analyzed: 09/12/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFI0255-BS1)**

Prepared & Analyzed: 09/12/22

Specific Conductance (EC) 0.146 0.0100 mmhos/cm 0.150 97.2 95-105

**Duplicate (BFI0255-DUP1)**

Source: 2208347-01

Prepared & Analyzed: 09/12/22

Specific Conductance (EC) 0.407 0.0100 mmhos/cm 0.410 0.832 20

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/28/22 14:37

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

**Summit Scientific**

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

**Batch BFI0256 - General Preparation**

**LCS (BFI0256-BS1)**

Prepared & Analyzed: 09/12/22

|    |      |          |      |     |        |
|----|------|----------|------|-----|--------|
| pH | 9.26 | pH Units | 9.18 | 101 | 95-105 |
|----|------|----------|------|-----|--------|

**Duplicate (BFI0256-DUP1)**

Source: 2208347-01

Prepared & Analyzed: 09/12/22

|    |      |          |      |      |    |
|----|------|----------|------|------|----|
| pH | 6.23 | pH Units | 6.31 | 1.28 | 20 |
|----|------|----------|------|------|----|

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
10/28/22 14:37

### Notes and Definitions

- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- I-04 Sample was analyzed out of recommended holding time per clients request.
- 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

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

December 27, 2022

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Noble - Cody White D3-2

Work Order # 2211104

Enclosed are the results of analyses for samples received by Summit Scientific on 11/07/22 17:04. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury

President



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/27/22 09:29

### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| BH01@4'   | 2211104-01    | Soil   | 11/07/22 14:00 | 11/07/22 17:04 |
| BH01@6'   | 2211104-02    | Soil   | 11/07/22 14:20 | 11/07/22 17:04 |

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.*

# Summit Scientific

S<sub>2</sub>

2211104

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310

Page 1 of 1

Client: Noble / Tasman Geosciences Project Manager: Jake Whritenour, Invoice: *Erica Zuniga*  
Address: 6855 W. 119th Ave. E-Mail: jwhritenour@tasman-geo.com/ Noble Group  
City/State/Zip: Broomfield / CO/ 80020  
Phone: 303-827-1511 Project Name: *Cody White D3-2*  
Sampler Name: Hunter Merlo Project Number:

| ID                                      | Sample Description | Date Sampled               | Time Sampled | # of containers                     | Preservative |                            |      |  | Matrix |      |  | Analysis Requested |            |           |           |           |             | Special Instructions           |
|---|--------------------|----------------------------|--------------|-------------------------------------|--------------|----------------------------|------|--|--------|------|--|--------------------|------------|-----------|-----------|-----------|-------------|--------------------------------|
|   |                    |                            |              |                                     | HCl          | HNO3                       | None | Other  | Water  | Soil | Air-Canister #   | Other              | \$260 BTEX | VOC - 915 | TPH - 915 | PAH - 915 | pH, EC, SAR |                                |
| 1                                       | BH01E4'            | 11/7/22                    | 1400         | 2                                   |              |                            | X    |  |        | X    |  |                    | X          | X         | X         | X         | X           | pH, EC, SAR by saturated paste |
| 2                                       | BH01E6'            | 11/7/22                    | 1420         | 2                                   |              |                            | X    |  |        | X    |  |                    | X          | X         | X         | X         | X           |                                |
| 3                                       |                    |                            |              |                                     |              |                            |      |  |        |      |  |                    |            |           |           |           |             |                                |
| 4                                       |                    |                            |              |                                     |              |                            |      |  |        |      |  |                    |            |           |           |           |             |                                |
| 5                                       |                    |                            |              |                                     |              |                            |      |  |        |      |  |                    |            |           |           |           |             |                                |
| 6                                       |                    |                            |              |                                     |              |                            |      |  |        |      |  |                    |            |           |           |           |             |                                |
| 7                                       |                    |                            |              |                                     |              |                            |      |  |        |      |  |                    |            |           |           |           |             |                                |
| 8                                       |                    |                            |              |                                     |              |                            |      |  |        |      |  |                    |            |           |           |           |             |                                |
| 9                                       |                    |                            |              |                                     |              |                            |      |  |        |      |  |                    |            |           |           |           |             |                                |
| 10                                      |                    |                            |              |                                     |              |                            |      |  |        |      |  |                    |            |           |           |           |             |                                |
| Relinquished by: <i>[Signature]</i>     |                    | Date/Time: 11/7/22<br>1400 |              | Received by: <i>Tasman Lock Box</i> |              | Date/Time: 11/7/22<br>1400 |      | Turn Around Time (Check)   |        |      | Notes:   |                    |            |           |           |           |             |                                |
| Relinquished by: <i>Tasman Lock Box</i> |                    | Date/Time: 11/22<br>1704   |              | Received by: <i>[Signature]</i>     |              | Date/Time: 11/22<br>1704   |      | <input type="checkbox"/> Same Day 72 hours<br><input checked="" type="checkbox"/> 24 hours Standard<br><input type="checkbox"/> 48 hours |        |      | Sample Integrity: <u>9.4</u>                               |                    |            |           |           |           |             |                                |
| Relinquished by:                        |                    | Date/Time:                 |              | Received by:                        |              | Date/Time:                 |      | Temperature Upon Receipt: <u>9.4</u>   |        |      | Samples Intact: <input checked="" type="checkbox"/> Yes No |                    |            |           |           |           |             |                                |

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2211104

Client: Noble Tasmann Client Project ID: Cody White D3-2

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

-

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

Temp (°C)  Thermometer #

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

Additional Comments (if any):

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

[Signature]  
Custodian Printed Name

11-7-22  
Date/Time



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/27/22 09:29

**BH01@4'**  
**2211104-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/07/22 14:00**

| Analyte                     | Result | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     | MDL |       |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    |     | mg/kg | 1        | BFK0208 | 11/08/22 | 11/09/22 | 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: **11/07/22 14:00**

| Analyte                          | Result | Reporting |     | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|-----|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     | MDL |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 107 %     |     | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 109 %     |     | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 109 %     |     | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/07/22 14:00**

| Analyte       | Result | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     | MDL |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        |     | mg/kg | 1        | BFK0209 | 11/08/22 | 11/09/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        |     | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/07/22 14:00**

| Analyte                | Result | Reporting |     | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|-----|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     | MDL |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl |        | 104 %     |     | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

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 - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/27/22 09:29

**BH01@4'**  
**2211104-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/07/22 14:00**

| Analyte                  | Result | Reporting Limit | MDL | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene             | ND     | 0.00500         |     | mg/kg | 1        | BFK0259 | 11/10/22 | 11/11/22 | 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: **11/07/22 14:00**

| Analyte                            | Result | Reporting Limit | MDL | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|-----|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 |        | 74.2 %          |     | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        |        | 56.0 %          |     | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/07/22 14:00**

| Analyte      | Result       | Reporting Limit | MDL | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-----|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.311</b> | 0.0100          |     | mg/L  | 1        | BFK0236 | 11/09/22 | 11/09/22 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **11/07/22 14:00**

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

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/27/22 09:29

**BH01@4'**  
**2211104-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

| Analyte  | Result | Limit  | MDL     | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|--------|---------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic  | 2.10   | 0.269  | 0.227   | mg/kg dry | 1        | BFL0477 | 12/19/22 | 12/20/22 | EPA 6020B |       |
| Barium   | 121    | 0.538  | 0.425   | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | 0.262  | 0.269  | 0.00969 | "         | "        | "       | "        | "        | "         |       |
| Copper   | 15.1   | 0.538  | 0.0281  | "         | "        | "       | "        | "        | "         |       |
| Lead     | 11.2   | 0.269  | 0.0740  | "         | "        | "       | "        | "        | "         |       |
| Nickel   | 11.8   | 0.538  | 0.0821  | "         | "        | "       | "        | "        | "         |       |
| Selenium | 0.836  | 0.350  | 0.236   | "         | "        | "       | "        | "        | "         |       |
| Silver   | 0.0603 | 0.0269 | 0.00359 | "         | "        | "       | "        | "        | "         |       |
| Zinc     | 48.6   | 0.538  | 0.358   | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/07/22 14:00

| Analyte              | Result | Reporting Limit | MDL | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            |     | mg/kg dry | 1        | BFL0500 | 12/20/22 | 12/20/22 | EPA 7196A | I-02  |

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

Date Sampled: 11/07/22 14:00

| Analyte   | Result | Reporting Limit | MDL | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 201    | 0.0673          |     | mg/L dry | 1        | BFK0246 | 11/09/22 | 11/11/22 | EPA 6020B |       |
| Magnesium | 152    | 0.0673          |     | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 824    | 0.0673          |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: 11/07/22 14:00

| Analyte                 | Result | Reporting Limit | MDL | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 10.7   | 0.00100         |     | units | 1        | BFK0338 | 11/12/22 | 11/12/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

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 - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/27/22 09:29

**BH01@4'**  
**2211104-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/07/22 14:00**

| Analyte  | Result | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|          |        | Limit     | MDL |       |          |         |          |          |             |       |
| % Solids | 74.3   |           |     | %     | 1        | BFK0283 | 11/10/22 | 11/11/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/07/22 14:00**

| Analyte                   | Result | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|                           |        | Limit     | MDL |          |          |         |          |          |           |       |
| Specific Conductance (EC) | 3.91   | 0.0100    |     | mmhos/cm | 1        | BFK0267 | 11/10/22 | 11/10/22 | EPA 120.1 |       |

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

Date Sampled: **11/07/22 14:00**

| Analyte | Result | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     | MDL |          |          |         |          |          |           |       |
| pH      | 8.11   |           |     | pH Units | 1        | BFK0266 | 11/10/22 | 11/10/22 | EPA 9045D |       |

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/27/22 09:29

**BH01@6'**  
**2211104-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/07/22 14:20**

| Analyte                     | Result | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     | MDL |       |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    |     | mg/kg | 1        | BFK0208 | 11/08/22 | 11/09/22 | 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: **11/07/22 14:20**

| Analyte                          | Result | Reporting |     | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|-----|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     | MDL |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 101 %     |     | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 108 %     |     | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 107 %     |     | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/07/22 14:20**

| Analyte       | Result | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|-----|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     | MDL |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        |     | mg/kg | 1        | BFK0209 | 11/08/22 | 11/09/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        |     | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/07/22 14:20**

| Analyte                | Result | Reporting |     | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|-----|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     | MDL |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl |        | 106 %     |     | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

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 - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/27/22 09:29

**BH01@6'**  
**2211104-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/07/22 14:20**

| Analyte                  | Result | Reporting Limit | MDL | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene             | ND     | 0.00500         |     | mg/kg | 1        | BFK0259 | 11/10/22 | 11/11/22 | 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: **11/07/22 14:20**

| Analyte                            | Result | Reporting Limit | MDL | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|-----|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 |        | 83.0 %          |     | 40-150 |          | "     | "        | "        | "      | "     |
| Surrogate: Fluoranthene-d10        |        | 58.4 %          |     | 40-150 |          | "     | "        | "        | "      | "     |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/07/22 14:20**

| Analyte      | Result       | Reporting Limit | MDL | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-----|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.339</b> | 0.0100          |     | mg/L  | 1        | BFK0236 | 11/09/22 | 11/10/22 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **11/07/22 14:20**

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

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/27/22 09:29

**BH01@6'**  
**2211104-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

| Analyte  | Result | Limit  | MDL     | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|--------|---------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic  | 3.87   | 0.281  | 0.237   | mg/kg dry | 1        | BFL0477 | 12/19/22 | 12/20/22 | EPA 6020B |       |
| Barium   | 95.4   | 0.562  | 0.444   | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | 0.302  | 0.281  | 0.0101  | "         | "        | "       | "        | "        | "         |       |
| Copper   | 21.1   | 0.562  | 0.0294  | "         | "        | "       | "        | "        | "         |       |
| Lead     | 13.4   | 0.281  | 0.0772  | "         | "        | "       | "        | "        | "         |       |
| Nickel   | 17.9   | 0.562  | 0.0857  | "         | "        | "       | "        | "        | "         |       |
| Selenium | 0.995  | 0.365  | 0.246   | "         | "        | "       | "        | "        | "         |       |
| Silver   | 0.0750 | 0.0281 | 0.00375 | "         | "        | "       | "        | "        | "         |       |
| Zinc     | 68.2   | 0.562  | 0.374   | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/07/22 14:20**

| Analyte              | Result | Reporting Limit | MDL | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            |     | mg/kg dry | 1        | BFL0500 | 12/20/22 | 12/20/22 | EPA 7196A | I-02  |

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

Date Sampled: **11/07/22 14:20**

| Analyte   | Result | Reporting Limit | MDL | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|-----|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 226    | 0.0702          |     | mg/L dry | 1        | BFK0246 | 11/09/22 | 11/11/22 | EPA 6020B |       |
| Magnesium | 279    | 0.0702          |     | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 1640   | 0.0702          |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/07/22 14:20**

| Analyte                 | Result | Reporting Limit | MDL | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-----|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 17.2   | 0.00100         |     | units | 1        | BFK0338 | 11/12/22 | 11/12/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

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 - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/27/22 09:29

**BH01@6'**  
**2211104-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/07/22 14:20**

| Analyte  | Result | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|          |        | Limit     | MDL |       |          |         |          |          |             |       |
| % Solids | 71.2   |           |     | %     | 1        | BFK0283 | 11/10/22 | 11/11/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/07/22 14:20**

| Analyte                   | Result | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|                           |        | Limit     | MDL |          |          |         |          |          |           |       |
| Specific Conductance (EC) | 6.39   | 0.0100    |     | mmhos/cm | 1        | BFK0267 | 11/10/22 | 11/10/22 | EPA 120.1 |       |

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

Date Sampled: **11/07/22 14:20**

| Analyte | Result | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     | MDL |          |          |         |          |          |           |       |
| pH      | 8.21   |           |     | pH Units | 1        | BFK0266 | 11/10/22 | 11/10/22 | EPA 9045D |       |

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

Reported:  
12/27/22 09:29

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

#### Summit Scientific

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

#### Batch BFK0208 - EPA 5030 Soil MS

##### Blank (BFK0208-BLK1)

Prepared & Analyzed: 11/08/22

|                                  |        |        |       |        |  |      |        |  |  |  |  |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|--|
| 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 | 0.0372 |        | "     | 0.0400 |  | 93.1 | 50-150 |  |  |  |  |
| Surrogate: Toluene-d8            | 0.0431 |        | "     | 0.0400 |  | 108  | 50-150 |  |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.0411 |        | "     | 0.0400 |  | 103  | 50-150 |  |  |  |  |

##### LCS (BFK0208-BS1)

Prepared & Analyzed: 11/08/22

|                                  |        |        |       |        |  |      |        |  |  |  |  |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|--|
| Benzene                          | 0.0778 | 0.0020 | mg/kg | 0.0750 |  | 104  | 70-130 |  |  |  |  |
| Toluene                          | 0.0707 | 0.0050 | "     | 0.0750 |  | 94.3 | 70-130 |  |  |  |  |
| Ethylbenzene                     | 0.0719 | 0.0050 | "     | 0.0750 |  | 95.9 | 70-130 |  |  |  |  |
| m,p-Xylene                       | 0.145  | 0.010  | "     | 0.150  |  | 97.0 | 70-130 |  |  |  |  |
| o-Xylene                         | 0.0755 | 0.0050 | "     | 0.0750 |  | 101  | 70-130 |  |  |  |  |
| 1,2,4-Trimethylbenzene           | 0.0828 | 0.0050 | "     | 0.0750 |  | 110  | 70-130 |  |  |  |  |
| 1,3,5-Trimethylbenzene           | 0.0800 | 0.0050 | "     | 0.0750 |  | 107  | 70-130 |  |  |  |  |
| Naphthalene                      | 0.0944 | 0.0038 | "     | 0.0750 |  | 126  | 70-130 |  |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0347 |        | "     | 0.0400 |  | 86.8 | 50-150 |  |  |  |  |
| Surrogate: Toluene-d8            | 0.0425 |        | "     | 0.0400 |  | 106  | 50-150 |  |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.0411 |        | "     | 0.0400 |  | 103  | 50-150 |  |  |  |  |

##### Matrix Spike (BFK0208-MS1)

Source: 2211096-01

Prepared & Analyzed: 11/08/22

|                                  |        |        |       |        |    |      |        |  |  |  |  |
|----------------------------------|--------|--------|-------|--------|----|------|--------|--|--|--|--|
| Benzene                          | 0.0696 | 0.0020 | mg/kg | 0.0750 | ND | 92.8 | 70-130 |  |  |  |  |
| Toluene                          | 0.0671 | 0.0050 | "     | 0.0750 | ND | 89.4 | 70-130 |  |  |  |  |
| Ethylbenzene                     | 0.0691 | 0.0050 | "     | 0.0750 | ND | 92.2 | 70-130 |  |  |  |  |
| m,p-Xylene                       | 0.141  | 0.010  | "     | 0.150  | ND | 94.0 | 70-130 |  |  |  |  |
| o-Xylene                         | 0.0741 | 0.0050 | "     | 0.0750 | ND | 98.8 | 70-130 |  |  |  |  |
| 1,2,4-Trimethylbenzene           | 0.0824 | 0.0050 | "     | 0.0750 | ND | 110  | 70-130 |  |  |  |  |
| 1,3,5-Trimethylbenzene           | 0.0783 | 0.0050 | "     | 0.0750 | ND | 104  | 70-130 |  |  |  |  |
| Naphthalene                      | 0.0933 | 0.0038 | "     | 0.0750 | ND | 124  | 70-130 |  |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0362 |        | "     | 0.0400 |    | 90.5 | 50-150 |  |  |  |  |
| Surrogate: Toluene-d8            | 0.0437 |        | "     | 0.0400 |    | 109  | 50-150 |  |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.0415 |        | "     | 0.0400 |    | 104  | 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 - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/27/22 09:29

**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 BFK0208 - EPA 5030 Soil MS**

| <b>Matrix Spike Dup (BFK0208-MSD1)</b>  | <b>Source: 2211096-01</b> |        |          | <b>Prepared &amp; Analyzed: 11/08/22</b> |    |             |               |      |    |  |
|---|---------------------------|--------|----------|--|----|-------------|---------------|------|----|--|
| Benzene                                 | 0.0711                    | 0.0020 | mg/kg    | 0.0750                                   | ND | 94.8        | 70-130        | 2.09 | 30 |  |
| Toluene                                 | 0.0709                    | 0.0050 | "        | 0.0750                                   | ND | 94.5        | 70-130        | 5.48 | 30 |  |
| Ethylbenzene                            | 0.0712                    | 0.0050 | "        | 0.0750                                   | ND | 95.0        | 70-130        | 3.03 | 30 |  |
| m,p-Xylene                              | 0.146                     | 0.010  | "        | 0.150                                    | ND | 97.3        | 70-130        | 3.51 | 30 |  |
| o-Xylene                                | 0.0763                    | 0.0050 | "        | 0.0750                                   | ND | 102         | 70-130        | 2.91 | 30 |  |
| 1,2,4-Trimethylbenzene                  | 0.0847                    | 0.0050 | "        | 0.0750                                   | ND | 113         | 70-130        | 2.69 | 30 |  |
| 1,3,5-Trimethylbenzene                  | 0.0819                    | 0.0050 | "        | 0.0750                                   | ND | 109         | 70-130        | 4.53 | 30 |  |
| Naphthalene                             | 0.0915                    | 0.0038 | "        | 0.0750                                   | ND | 122         | 70-130        | 1.98 | 30 |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0345</i>             |        | <i>"</i> | <i>0.0400</i>                            |    | <i>86.3</i> | <i>50-150</i> |      |    |  |
| <i>Surrogate: Toluene-d8</i>            | <i>0.0434</i>             |        | <i>"</i> | <i>0.0400</i>                            |    | <i>109</i>  | <i>50-150</i> |      |    |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>0.0408</i>             |        | <i>"</i> | <i>0.0400</i>                            |    | <i>102</i>  | <i>50-150</i> |      |    |  |

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/27/22 09:29

**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 BFK0209 - EPA 3550A**

**Blank (BFK0209-BLK1)**

Prepared & Analyzed: 11/08/22

|                                |      |    |       |      |     |        |  |  |  |  |  |
|--------------------------------|------|----|-------|------|-----|--------|--|--|--|--|--|
| C10-C28 (DRO)                  | ND   | 50 | mg/kg |      |     |        |  |  |  |  |  |
| C28-C36 (ORO)                  | ND   | 50 | "     |      |     |        |  |  |  |  |  |
| Surrogate: <i>o</i> -Terphenyl | 12.6 |    | "     | 12.5 | 101 | 30-150 |  |  |  |  |  |

**LCS (BFK0209-BS1)**

Prepared & Analyzed: 11/08/22

|                                |      |    |       |      |      |        |  |  |  |  |  |
|--------------------------------|------|----|-------|------|------|--------|--|--|--|--|--|
| C10-C28 (DRO)                  | 469  | 50 | mg/kg | 500  | 93.8 | 70-130 |  |  |  |  |  |
| Surrogate: <i>o</i> -Terphenyl | 12.1 |    | "     | 12.5 | 96.9 | 30-150 |  |  |  |  |  |

**Matrix Spike (BFK0209-MS1)**

Source: 2211096-01

Prepared & Analyzed: 11/08/22

|                                |      |    |       |      |      |        |        |  |  |  |  |
|--------------------------------|------|----|-------|------|------|--------|--------|--|--|--|--|
| C10-C28 (DRO)                  | 457  | 50 | mg/kg | 500  | 10.7 | 89.2   | 70-130 |  |  |  |  |
| Surrogate: <i>o</i> -Terphenyl | 11.7 |    | "     | 12.5 | 93.3 | 30-150 |        |  |  |  |  |

**Matrix Spike Dup (BFK0209-MSD1)**

Source: 2211096-01

Prepared & Analyzed: 11/08/22

|                                |      |    |       |      |      |        |        |       |    |  |  |
|--------------------------------|------|----|-------|------|------|--------|--------|-------|----|--|--|
| C10-C28 (DRO)                  | 455  | 50 | mg/kg | 500  | 10.7 | 88.9   | 70-130 | 0.372 | 20 |  |  |
| Surrogate: <i>o</i> -Terphenyl | 10.9 |    | "     | 12.5 | 87.1 | 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 - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/27/22 09:29

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

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

**Batch BFK0259 - EPA 5030 Soil MS**

**Blank (BFK0259-BLK1)**

Prepared & Analyzed: 11/10/22

|   |               |         |       |               |  |             |  |               |  |  |
|---|---------------|---------|-------|---------------|--|-------------|--|---------------|--|--|
| Acenaphthene                              | ND            | 0.00500 | mg/kg |               |  |             |  |               |  |  |
| Anthracene                                | ND            | 0.00500 | "     |               |  |             |  |               |  |  |
| Benzo (a) anthracene                      | ND            | 0.00500 | "     |               |  |             |  |               |  |  |
| Benzo (a) pyrene                          | ND            | 0.00500 | "     |               |  |             |  |               |  |  |
| Benzo (b) fluoranthene                    | ND            | 0.00500 | "     |               |  |             |  |               |  |  |
| Benzo (k) fluoranthene                    | ND            | 0.00500 | "     |               |  |             |  |               |  |  |
| Chrysene                                  | ND            | 0.00500 | "     |               |  |             |  |               |  |  |
| Dibenz (a,h) anthracene                   | ND            | 0.00500 | "     |               |  |             |  |               |  |  |
| Fluoranthene                              | ND            | 0.00500 | "     |               |  |             |  |               |  |  |
| Fluorene                                  | ND            | 0.00500 | "     |               |  |             |  |               |  |  |
| Indeno (1,2,3-cd) pyrene                  | ND            | 0.00500 | "     |               |  |             |  |               |  |  |
| Pyrene                                    | ND            | 0.00500 | "     |               |  |             |  |               |  |  |
| 1-Methylnaphthalene                       | ND            | 0.00500 | "     |               |  |             |  |               |  |  |
| 2-Methylnaphthalene                       | ND            | 0.00500 | "     |               |  |             |  |               |  |  |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0404</i> |         | "     | <i>0.0333</i> |  | <i>121</i>  |  | <i>40-150</i> |  |  |
| <i>Surrogate: Fluoranthene-d10</i>        | <i>0.0302</i> |         | "     | <i>0.0333</i> |  | <i>90.5</i> |  | <i>40-150</i> |  |  |

**LCS (BFK0259-BS1)**

Prepared & Analyzed: 11/10/22

|   |               |         |       |               |            |               |
|---|---------------|---------|-------|---------------|------------|---------------|
| Acenaphthene                              | 0.0418        | 0.00500 | mg/kg | 0.0333        | 125        | 31-137        |
| Anthracene                                | 0.0377        | 0.00500 | "     | 0.0333        | 113        | 30-120        |
| Benzo (a) anthracene                      | 0.0336        | 0.00500 | "     | 0.0333        | 101        | 30-120        |
| Benzo (a) pyrene                          | 0.0400        | 0.00500 | "     | 0.0333        | 120        | 30-120        |
| Benzo (b) fluoranthene                    | 0.0398        | 0.00500 | "     | 0.0333        | 119        | 30-120        |
| Benzo (k) fluoranthene                    | 0.0398        | 0.00500 | "     | 0.0333        | 119        | 30-120        |
| Chrysene                                  | 0.0329        | 0.00500 | "     | 0.0333        | 98.8       | 30-120        |
| Dibenz (a,h) anthracene                   | 0.0399        | 0.00500 | "     | 0.0333        | 120        | 30-120        |
| Fluoranthene                              | 0.0381        | 0.00500 | "     | 0.0333        | 114        | 30-120        |
| Fluorene                                  | 0.0392        | 0.00500 | "     | 0.0333        | 118        | 30-120        |
| Indeno (1,2,3-cd) pyrene                  | 0.0380        | 0.00500 | "     | 0.0333        | 114        | 30-120        |
| Pyrene                                    | 0.0354        | 0.00500 | "     | 0.0333        | 106        | 35-142        |
| 1-Methylnaphthalene                       | 0.0348        | 0.00500 | "     | 0.0333        | 104        | 35-142        |
| 2-Methylnaphthalene                       | 0.0340        | 0.00500 | "     | 0.0333        | 102        | 35-142        |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0348</i> |         | "     | <i>0.0333</i> | <i>104</i> | <i>40-150</i> |
| <i>Surrogate: Fluoranthene-d10</i>        | <i>0.0397</i> |         | "     | <i>0.0333</i> | <i>119</i> | <i>40-150</i> |

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

Reported:  
12/27/22 09:29

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

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

**Batch BFK0259 - EPA 5030 Soil MS**

| <b>Matrix Spike (BFK0259-MS1)</b>         | <b>Source: 2211017-01</b> |         |          | <b>Prepared &amp; Analyzed: 11/10/22</b> |         |             |               |  |  |  |       |
|---|---------------------------|---------|----------|--|---------|-------------|---------------|--|--|--|-------|
| Acenaphthene                              | 0.0299                    | 0.00500 | mg/kg    | 0.0333                                   | ND      | 89.6        | 31-137        |  |  |  |       |
| Anthracene                                | 0.0298                    | 0.00500 | "        | 0.0333                                   | ND      | 89.3        | 30-120        |  |  |  |       |
| Benzo (a) anthracene                      | 0.0238                    | 0.00500 | "        | 0.0333                                   | ND      | 71.3        | 30-120        |  |  |  |       |
| Benzo (a) pyrene                          | 0.0267                    | 0.00500 | "        | 0.0333                                   | 0.00128 | 76.3        | 30-120        |  |  |  |       |
| Benzo (b) fluoranthene                    | 0.0235                    | 0.00500 | "        | 0.0333                                   | ND      | 70.6        | 30-120        |  |  |  |       |
| Benzo (k) fluoranthene                    | 0.0255                    | 0.00500 | "        | 0.0333                                   | ND      | 76.6        | 30-120        |  |  |  |       |
| Chrysene                                  | 0.0286                    | 0.00500 | "        | 0.0333                                   | 0.00307 | 76.6        | 30-120        |  |  |  |       |
| Dibenz (a,h) anthracene                   | 0.0284                    | 0.00500 | "        | 0.0333                                   | ND      | 85.3        | 30-120        |  |  |  |       |
| Fluoranthene                              | 0.0393                    | 0.00500 | "        | 0.0333                                   | ND      | 118         | 30-120        |  |  |  |       |
| Fluorene                                  | 0.0330                    | 0.00500 | "        | 0.0333                                   | ND      | 99.0        | 30-120        |  |  |  |       |
| Indeno (1,2,3-cd) pyrene                  | 0.0270                    | 0.00500 | "        | 0.0333                                   | ND      | 80.9        | 30-120        |  |  |  |       |
| Pyrene                                    | 0.0329                    | 0.00500 | "        | 0.0333                                   | 0.00506 | 83.4        | 35-142        |  |  |  |       |
| 1-Methylnaphthalene                       | 0.428                     | 0.00500 | "        | 0.0333                                   | 0.163   | 795         | 15-130        |  |  |  | QM-07 |
| 2-Methylnaphthalene                       | 0.127                     | 0.00500 | "        | 0.0333                                   | 0.0269  | 300         | 15-130        |  |  |  | QM-07 |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0381</i>             |         | <i>"</i> | <i>0.0333</i>                            |         | <i>114</i>  | <i>40-150</i> |  |  |  |       |
| <i>Surrogate: Fluoranthene-d10</i>        | <i>0.0282</i>             |         | <i>"</i> | <i>0.0333</i>                            |         | <i>84.7</i> | <i>40-150</i> |  |  |  |       |

| <b>Matrix Spike Dup (BFK0259-MSD1)</b>    | <b>Source: 2211017-01</b> |         |          | <b>Prepared &amp; Analyzed: 11/10/22</b> |         |             |               |       |    |  |       |
|---|---------------------------|---------|----------|--|---------|-------------|---------------|-------|----|--|-------|
| Acenaphthene                              | 0.0373                    | 0.00500 | mg/kg    | 0.0333                                   | ND      | 112         | 31-137        | 22.1  | 30 |  |       |
| Anthracene                                | 0.0324                    | 0.00500 | "        | 0.0333                                   | ND      | 97.1        | 30-120        | 8.42  | 30 |  |       |
| Benzo (a) anthracene                      | 0.0238                    | 0.00500 | "        | 0.0333                                   | ND      | 71.4        | 30-120        | 0.164 | 30 |  |       |
| Benzo (a) pyrene                          | 0.0286                    | 0.00500 | "        | 0.0333                                   | 0.00128 | 82.1        | 30-120        | 7.03  | 30 |  |       |
| Benzo (b) fluoranthene                    | 0.0257                    | 0.00500 | "        | 0.0333                                   | ND      | 77.0        | 30-120        | 8.75  | 30 |  |       |
| Benzo (k) fluoranthene                    | 0.0278                    | 0.00500 | "        | 0.0333                                   | ND      | 83.4        | 30-120        | 8.44  | 30 |  |       |
| Chrysene                                  | 0.0285                    | 0.00500 | "        | 0.0333                                   | 0.00307 | 76.2        | 30-120        | 0.516 | 30 |  |       |
| Dibenz (a,h) anthracene                   | 0.0283                    | 0.00500 | "        | 0.0333                                   | ND      | 84.8        | 30-120        | 0.590 | 30 |  |       |
| Fluoranthene                              | 0.0387                    | 0.00500 | "        | 0.0333                                   | ND      | 116         | 30-120        | 1.57  | 30 |  |       |
| Fluorene                                  | 0.0237                    | 0.00500 | "        | 0.0333                                   | ND      | 71.1        | 30-120        | 32.8  | 30 |  | QR-02 |
| Indeno (1,2,3-cd) pyrene                  | 0.0277                    | 0.00500 | "        | 0.0333                                   | ND      | 83.2        | 30-120        | 2.83  | 30 |  |       |
| Pyrene                                    | 0.0304                    | 0.00500 | "        | 0.0333                                   | 0.00506 | 76.1        | 35-142        | 7.70  | 30 |  |       |
| 1-Methylnaphthalene                       | 0.339                     | 0.00500 | "        | 0.0333                                   | 0.163   | 528         | 15-130        | 23.2  | 50 |  | QM-07 |
| 2-Methylnaphthalene                       | 0.120                     | 0.00500 | "        | 0.0333                                   | 0.0269  | 281         | 15-130        | 5.33  | 50 |  | QM-07 |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0315</i>             |         | <i>"</i> | <i>0.0333</i>                            |         | <i>94.4</i> | <i>40-150</i> |       |    |  |       |
| <i>Surrogate: Fluoranthene-d10</i>        | <i>0.0288</i>             |         | <i>"</i> | <i>0.0333</i>                            |         | <i>86.3</i> | <i>40-150</i> |       |    |  |       |

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/27/22 09:29

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

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

**Batch BFK0236 - EPA 3050B**

**Blank (BFK0236-BLK1)**

Prepared & Analyzed: 11/09/22

Boron ND 0.0100 mg/L

**LCS (BFK0236-BS1)**

Prepared & Analyzed: 11/09/22

Boron 5.85 0.0100 mg/L 5.00 117 80-120

**Matrix Spike (BFK0236-MS1)**

Source: 2211104-01

Prepared & Analyzed: 11/09/22

Boron 5.97 0.0100 mg/L 5.00 0.311 113 75-125

**Matrix Spike Dup (BFK0236-MSD1)**

Source: 2211104-01

Prepared & Analyzed: 11/09/22

Boron 5.93 0.0100 mg/L 5.00 0.311 112 75-125 0.545 25

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/27/22 09:29

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFL0477 - EPA 3050B**

**Blank (BFL0477-BLK1)**

Prepared: 12/19/22 Analyzed: 12/20/22

|          |       |        |           |  |  |  |  |  |  |  |
|----------|-------|--------|-----------|--|--|--|--|--|--|--|
| Arsenic  | ND    | 0.200  | mg/kg wet |  |  |  |  |  |  |  |
| Barium   | ND    | 0.400  | "         |  |  |  |  |  |  |  |
| Cadmium  | ND    | 0.200  | "         |  |  |  |  |  |  |  |
| Copper   | 0.356 | 0.400  | "         |  |  |  |  |  |  |  |
| Lead     | ND    | 0.200  | "         |  |  |  |  |  |  |  |
| Nickel   | ND    | 0.400  | "         |  |  |  |  |  |  |  |
| Selenium | ND    | 0.260  | "         |  |  |  |  |  |  |  |
| Silver   | ND    | 0.0200 | "         |  |  |  |  |  |  |  |
| Zinc     | ND    | 0.400  | "         |  |  |  |  |  |  |  |

**LCS (BFL0477-BS1)**

Prepared: 12/19/22 Analyzed: 12/20/22

|          |      |        |           |      |      |        |
|----------|------|--------|-----------|------|------|--------|
| Arsenic  | 34.8 | 0.200  | mg/kg wet | 40.0 | 86.9 | 80-120 |
| Barium   | 32.6 | 0.400  | "         | 40.0 | 81.6 | 80-120 |
| Cadmium  | 1.66 | 0.200  | "         | 2.00 | 82.8 | 80-120 |
| Copper   | 33.1 | 0.400  | "         | 40.0 | 82.8 | 80-120 |
| Lead     | 19.8 | 0.200  | "         | 20.0 | 99.2 | 80-120 |
| Nickel   | 33.1 | 0.400  | "         | 40.0 | 82.8 | 80-120 |
| Selenium | 3.23 | 0.260  | "         | 4.00 | 80.8 | 80-120 |
| Silver   | 1.62 | 0.0200 | "         | 2.00 | 81.1 | 80-120 |
| Zinc     | 35.4 | 0.400  | "         | 40.0 | 88.5 | 80-120 |

**Duplicate (BFL0477-DUP1)**

Source: 2212154-02

Prepared: 12/19/22 Analyzed: 12/20/22

|          |        |        |           |        |       |    |
|----------|--------|--------|-----------|--------|-------|----|
| Arsenic  | 3.65   | 0.235  | mg/kg dry | 3.69   | 1.10  | 20 |
| Barium   | 85.1   | 0.471  | "         | 83.1   | 2.37  | 20 |
| Cadmium  | 0.167  | 0.235  | "         | 0.154  | 8.37  | 20 |
| Copper   | 7.14   | 0.471  | "         | 7.09   | 0.768 | 20 |
| Lead     | 6.31   | 0.235  | "         | 6.18   | 2.03  | 20 |
| Nickel   | 8.21   | 0.471  | "         | 8.03   | 2.17  | 20 |
| Selenium | 0.396  | 0.306  | "         | 0.389  | 1.57  | 20 |
| Silver   | 0.0347 | 0.0235 | "         | 0.0310 | 11.2  | 20 |
| Zinc     | 30.7   | 0.471  | "         | 30.2   | 1.72  | 20 |

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/27/22 09:29

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFL0477 - EPA 3050B**

**Matrix Spike (BFL0477-MS1)**

Source: 2212154-02

Prepared: 12/19/22 Analyzed: 12/20/22

|          |      |        |           |      |        |      |        |  |  |  |
|----------|------|--------|-----------|------|--------|------|--------|--|--|--|
| Arsenic  | 41.1 | 0.235  | mg/kg dry | 47.1 | 3.69   | 79.6 | 75-125 |  |  |  |
| Barium   | 134  | 0.471  | "         | 47.1 | 83.1   | 108  | 75-125 |  |  |  |
| Cadmium  | 2.03 | 0.235  | "         | 2.35 | 0.154  | 79.7 | 75-125 |  |  |  |
| Copper   | 43.0 | 0.471  | "         | 47.1 | 7.09   | 76.4 | 75-125 |  |  |  |
| Lead     | 27.3 | 0.235  | "         | 23.5 | 6.18   | 89.8 | 75-125 |  |  |  |
| Nickel   | 45.2 | 0.471  | "         | 47.1 | 8.03   | 79.1 | 75-125 |  |  |  |
| Selenium | 4.30 | 0.306  | "         | 4.71 | 0.389  | 83.2 | 75-125 |  |  |  |
| Silver   | 1.82 | 0.0235 | "         | 2.35 | 0.0310 | 76.0 | 75-125 |  |  |  |
| Zinc     | 68.2 | 0.471  | "         | 47.1 | 30.2   | 80.9 | 75-125 |  |  |  |

**Matrix Spike Dup (BFL0477-MSD1)**

Source: 2212154-02

Prepared: 12/19/22 Analyzed: 12/20/22

|          |      |        |           |      |        |      |        |        |    |
|----------|------|--------|-----------|------|--------|------|--------|--------|----|
| Arsenic  | 41.9 | 0.235  | mg/kg dry | 47.1 | 3.69   | 81.2 | 75-125 | 1.86   | 25 |
| Barium   | 136  | 0.471  | "         | 47.1 | 83.1   | 112  | 75-125 | 1.44   | 25 |
| Cadmium  | 2.13 | 0.235  | "         | 2.35 | 0.154  | 83.9 | 75-125 | 4.84   | 25 |
| Copper   | 43.7 | 0.471  | "         | 47.1 | 7.09   | 77.8 | 75-125 | 1.54   | 25 |
| Lead     | 24.2 | 0.235  | "         | 23.5 | 6.18   | 76.4 | 75-125 | 12.2   | 25 |
| Nickel   | 45.8 | 0.471  | "         | 47.1 | 8.03   | 80.3 | 75-125 | 1.30   | 25 |
| Selenium | 4.30 | 0.306  | "         | 4.71 | 0.389  | 83.2 | 75-125 | 0.0305 | 25 |
| Silver   | 1.94 | 0.0235 | "         | 2.35 | 0.0310 | 81.2 | 75-125 | 6.51   | 25 |
| Zinc     | 69.1 | 0.471  | "         | 47.1 | 30.2   | 82.8 | 75-125 | 1.29   | 25 |

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/27/22 09:29

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BFL0500 - 3060A Mod**

**Blank (BFL0500-BLK1)**

Prepared & Analyzed: 12/20/22

Chromium, Hexavalent      ND      0.30    mg/kg wet

**LCS (BFL0500-BS1)**

Prepared & Analyzed: 12/20/22

Chromium, Hexavalent      21.8      0.30    mg/kg wet      25.0      87.0      80-120

**Duplicate (BFL0500-DUP1)**

**Source: 2211104-01**

Prepared & Analyzed: 12/20/22

Chromium, Hexavalent      ND      0.30    mg/kg dry      ND      20

**Matrix Spike (BFL0500-MS1)**

**Source: 2211104-01**

Prepared & Analyzed: 12/20/22

Chromium, Hexavalent      28.2      0.30    mg/kg dry      33.7      ND      83.8      75-125

**Matrix Spike Dup (BFL0500-MSD1)**

**Source: 2211104-01**

Prepared & Analyzed: 12/20/22

Chromium, Hexavalent      26.5      0.30    mg/kg dry      33.7      ND      78.8      75-125      6.15      20

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/27/22 09:29

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

**Summit Scientific**

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

**Batch BFK0246 - General Preparation**

**Blank (BFK0246-BLK1)**

Prepared: 11/09/22 Analyzed: 11/11/22

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

**LCS (BFK0246-BS1)**

Prepared: 11/09/22 Analyzed: 11/11/22

|           |      |        |          |      |     |        |  |  |  |  |
|-----------|------|--------|----------|------|-----|--------|--|--|--|--|
| Calcium   | 5.15 | 0.0500 | mg/L wet | 5.00 | 103 | 70-130 |  |  |  |  |
| Magnesium | 5.08 | 0.0500 | "        | 5.00 | 102 | 70-130 |  |  |  |  |
| Sodium    | 5.00 | 0.0500 | "        | 5.00 | 100 | 70-130 |  |  |  |  |

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/27/22 09:29

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

**Summit Scientific**

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

**Batch BFK0283 - General Preparation**

| Duplicate (BFK0283-DUP1) | Source: 2211104-01 | Prepared: 11/10/22 | Analyzed: 11/11/22 |       |    |
|--------------------------|--------------------|--------------------|--------------------|-------|----|
| % Solids                 | 73.8               | %                  | 74.3               | 0.623 | 20 |

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/27/22 09:29

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

**Summit Scientific**

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

**Batch BFK0267 - General Preparation**

**Blank (BFK0267-BLK1)**

Prepared & Analyzed: 11/10/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFK0267-BS1)**

Prepared & Analyzed: 11/10/22

Specific Conductance (EC) 0.143 0.0100 mmhos/cm 0.150 95.5 95-105

**Duplicate (BFK0267-DUP1)**

Source: 2211084-01

Prepared & Analyzed: 11/10/22

Specific Conductance (EC) 1.09 0.0100 mmhos/cm 1.11 2.18 20

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/27/22 09:29

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

**Summit Scientific**

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

**Batch BFK0266 - General Preparation**

**LCS (BFK0266-BS1)**

Prepared & Analyzed: 11/10/22

|    |      |          |      |      |        |
|----|------|----------|------|------|--------|
| pH | 9.00 | pH Units | 9.18 | 98.0 | 95-105 |
|----|------|----------|------|------|--------|

**Duplicate (BFK0266-DUP1)**

Source: 2211084-01

Prepared & Analyzed: 11/10/22

|    |      |          |      |       |    |
|----|------|----------|------|-------|----|
| pH | 8.04 | pH Units | 8.02 | 0.249 | 20 |
|----|------|----------|------|-------|----|

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/27/22 09:29

### Notes and Definitions

- QR-02      The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QM-07      The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- I-02        This sample was analyzed outside of the recommended holding time.
- 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

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 15, 2022

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Noble - Cody White D3-2

Work Order #2211146

Enclosed are the results of analyses for samples received by Summit Scientific on 11/08/22 17:16. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury

President



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
11/15/22 15:49

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| BH02@4'   | 2211146-01    | Soil   | 11/08/22 12:30 | 11/08/22 17:16 |
| BH02@6'   | 2211146-02    | Soil   | 11/08/22 12:40 | 11/08/22 17:16 |

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.*



# S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2211146Client: Noble Hasman Client Project ID: Cody White D3-2

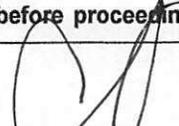
Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other \_\_\_\_\_ Airbill #: \_\_\_\_\_

|  |   |  |  |  |
|--|---|--|--|--|
|  | - |  |  |  |
|--|---|--|--|--|

Matrix (Check all that apply) Air  Soil/Solid  Water  Other Temp (°C)  Thermometer # 

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

Additional Comments (if any):

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.  
Custodian Printed Name11-8-22  
Date/Time



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
11/15/22 15:49

**BH02@4'**  
**2211146-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/08/22 12:30**

| Analyte                     | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    |  | mg/kg | 1        | BFK0244 | 11/09/22 | 11/11/22 | 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: **11/08/22 12:30**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 103 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 108 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 110 %     |  | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/08/22 12:30**

| Analyte       | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |  |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        |  | mg/kg | 1        | BFK0242 | 11/09/22 | 11/10/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/08/22 12:30**

| Analyte                | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl |        | 84.4 %    |  | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

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 - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
11/15/22 15:49

**BH02@4'**  
**2211146-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/08/22 12:30**

| Analyte                  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene             | ND     | 0.00500         | mg/kg | 1        | BFK0292 | 11/11/22 | 11/11/22 | 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: **11/08/22 12:30**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 |        | 104 %           | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        |        | 76.1 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/08/22 12:30**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.653</b> | 0.0100          | mg/L  | 1        | BFK0311 | 11/11/22 | 11/13/22 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **11/08/22 12:30**

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

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
11/15/22 15:49

**BH02@4'**  
**2211146-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

| Analyte  | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic  | 3.06   | 0.230           | mg/kg dry | 1        | BFK0276 | 11/10/22 | 11/10/22 | EPA 6020B |       |
| Barium   | 78.6   | 0.460           | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | ND     | 0.230           | "         | "        | "       | "        | "        | "         |       |
| Copper   | 3.86   | 0.460           | "         | "        | "       | "        | "        | "         |       |
| Lead     | 4.90   | 0.230           | "         | "        | "       | "        | "        | "         |       |
| Nickel   | 5.05   | 0.460           | "         | "        | "       | "        | "        | "         |       |
| Selenium | ND     | 0.299           | "         | "        | "       | "        | "        | "         |       |
| Silver   | 0.0294 | 0.0230          | "         | "        | "       | "        | "        | "         |       |
| Zinc     | 17.4   | 0.460           | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/08/22 12:30

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BFK0374 | 11/14/22 | 11/14/22 | EPA 7196A |       |

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

Date Sampled: 11/08/22 12:30

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 348    | 0.0575          | mg/L dry | 1        | BFK0265 | 11/10/22 | 11/12/22 | EPA 6020B |       |
| Magnesium | 335    | 0.0575          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 1990   | 0.0575          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: 11/08/22 12:30

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 18.3   | 0.00100         | units | 1        | BFK0361 | 11/14/22 | 11/14/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

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 - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
11/15/22 15:49

**BH02@4'**  
**2211146-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/08/22 12:30**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 86.9   |                 | %     | 1        | BFK0325 | 11/12/22 | 11/12/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/08/22 12:30**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 9.49   | 0.0100          | mmhos/cm | 1        | BFK0308 | 11/11/22 | 11/11/22 | EPA 120.1 |       |

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

Date Sampled: **11/08/22 12:30**

| Analyte | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH      | 8.17   |                 | pH Units | 1        | BFK0307 | 11/11/22 | 11/11/22 | EPA 9045D |       |

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
11/15/22 15:49

**BH02@6'**  
**2211146-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/08/22 12:40**

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene                     | ND     | 0.0020          | mg/kg | 1        | BFK0244 | 11/09/22 | 11/11/22 | 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: **11/08/22 12:40**

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 |        | 82.0 %          | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 107 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 103 %           | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/08/22 12:40**

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | BFK0242 | 11/09/22 | 11/10/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **11/08/22 12:40**

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl |        | 100 %           | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

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 - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
11/15/22 15:49

**BH02@6'**  
**2211146-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/08/22 12:40**

| Analyte                  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene             | ND     | 0.00500         | mg/kg | 1        | BFK0292 | 11/11/22 | 11/11/22 | 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: **11/08/22 12:40**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 |        | 98.5 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        |        | 79.2 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/08/22 12:40**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.333</b> | 0.0100          | mg/L  | 1        | BFK0311 | 11/11/22 | 11/13/22 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **11/08/22 12:40**

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

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
11/15/22 15:49

**BH02@6'**  
**2211146-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

| Analyte  | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic  | 3.18   | 0.235           | mg/kg dry | 1        | BFK0276 | 11/10/22 | 11/10/22 | EPA 6020B |       |
| Barium   | 134    | 0.470           | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | ND     | 0.235           | "         | "        | "       | "        | "        | "         |       |
| Copper   | 4.43   | 0.470           | "         | "        | "       | "        | "        | "         |       |
| Lead     | 5.69   | 0.235           | "         | "        | "       | "        | "        | "         |       |
| Nickel   | 5.50   | 0.470           | "         | "        | "       | "        | "        | "         |       |
| Selenium | ND     | 0.305           | "         | "        | "       | "        | "        | "         |       |
| Silver   | 0.0310 | 0.0235          | "         | "        | "       | "        | "        | "         |       |
| Zinc     | 20.2   | 0.470           | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/08/22 12:40

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BFK0374 | 11/14/22 | 11/14/22 | EPA 7196A |       |

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

Date Sampled: 11/08/22 12:40

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 328    | 0.0587          | mg/L dry | 1        | BFK0265 | 11/10/22 | 11/12/22 | EPA 6020B |       |
| Magnesium | 134    | 0.0587          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 607    | 0.0587          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: 11/08/22 12:40

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 7.13   | 0.00100         | units | 1        | BFK0361 | 11/14/22 | 11/14/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

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 - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
11/15/22 15:49

**BH02@6'**  
**2211146-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/08/22 12:40**

| Analyte  | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
|          |        | Limit     |  |       |          |         |          |          |             |       |
| % Solids | 85.1   |           |  | %     | 1        | BFK0325 | 11/12/22 | 11/12/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/08/22 12:40**

| Analyte                   | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|                           |        | Limit     |  |          |          |         |          |          |           |       |
| Specific Conductance (EC) | 3.96   | 0.0100    |  | mmhos/cm | 1        | BFK0308 | 11/11/22 | 11/11/22 | EPA 120.1 |       |

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

Date Sampled: **11/08/22 12:40**

| Analyte | Result | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|         |        | Limit     |  |          |          |         |          |          |           |       |
| pH      | 8.14   |           |  | pH Units | 1        | BFK0307 | 11/11/22 | 11/11/22 | EPA 9045D |       |

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
11/15/22 15:49

### 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 BFK0244 - EPA 5030 Soil MS

##### Blank (BFK0244-BLK1)

Prepared: 11/09/22 Analyzed: 11/10/22

|                                  |        |        |       |        |  |      |        |  |  |  |  |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|--|
| 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 | 0.0341 |        | "     | 0.0400 |  | 85.4 | 50-150 |  |  |  |  |
| Surrogate: Toluene-d8            | 0.0438 |        | "     | 0.0400 |  | 110  | 50-150 |  |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.0415 |        | "     | 0.0400 |  | 104  | 50-150 |  |  |  |  |

##### LCS (BFK0244-BS1)

Prepared: 11/09/22 Analyzed: 11/10/22

|                                  |        |        |       |        |  |      |        |  |  |  |         |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|---------|
| Benzene                          | 0.0747 | 0.0020 | mg/kg | 0.0750 |  | 99.6 | 70-130 |  |  |  |         |
| Toluene                          | 0.0716 | 0.0050 | "     | 0.0750 |  | 95.5 | 70-130 |  |  |  |         |
| Ethylbenzene                     | 0.0747 | 0.0050 | "     | 0.0750 |  | 99.6 | 70-130 |  |  |  |         |
| m,p-Xylene                       | 0.148  | 0.010  | "     | 0.150  |  | 98.3 | 70-130 |  |  |  |         |
| o-Xylene                         | 0.0769 | 0.0050 | "     | 0.0750 |  | 103  | 70-130 |  |  |  |         |
| 1,2,4-Trimethylbenzene           | 0.0838 | 0.0050 | "     | 0.0750 |  | 112  | 70-130 |  |  |  |         |
| 1,3,5-Trimethylbenzene           | 0.0823 | 0.0050 | "     | 0.0750 |  | 110  | 70-130 |  |  |  |         |
| Naphthalene                      | 0.119  | 0.0038 | "     | 0.0750 |  | 159  | 70-130 |  |  |  | QLCS-01 |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0340 |        | "     | 0.0400 |  | 85.1 | 50-150 |  |  |  |         |
| Surrogate: Toluene-d8            | 0.0435 |        | "     | 0.0400 |  | 109  | 50-150 |  |  |  |         |
| Surrogate: 4-Bromofluorobenzene  | 0.0408 |        | "     | 0.0400 |  | 102  | 50-150 |  |  |  |         |

##### Matrix Spike (BFK0244-MS1)

Source: 2211138-01

Prepared: 11/09/22 Analyzed: 11/10/22

|                                  |        |        |       |        |    |      |        |  |  |  |       |
|----------------------------------|--------|--------|-------|--------|----|------|--------|--|--|--|-------|
| Benzene                          | 0.0706 | 0.0020 | mg/kg | 0.0750 | ND | 94.1 | 70-130 |  |  |  |       |
| Toluene                          | 0.0663 | 0.0050 | "     | 0.0750 | ND | 88.4 | 70-130 |  |  |  |       |
| Ethylbenzene                     | 0.0685 | 0.0050 | "     | 0.0750 | ND | 91.3 | 70-130 |  |  |  |       |
| m,p-Xylene                       | 0.137  | 0.010  | "     | 0.150  | ND | 91.3 | 70-130 |  |  |  |       |
| o-Xylene                         | 0.0723 | 0.0050 | "     | 0.0750 | ND | 96.4 | 70-130 |  |  |  |       |
| 1,2,4-Trimethylbenzene           | 0.0801 | 0.0050 | "     | 0.0750 | ND | 107  | 70-130 |  |  |  |       |
| 1,3,5-Trimethylbenzene           | 0.0774 | 0.0050 | "     | 0.0750 | ND | 103  | 70-130 |  |  |  |       |
| Naphthalene                      | 0.147  | 0.0038 | "     | 0.0750 | ND | 196  | 70-130 |  |  |  | QM-07 |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0361 |        | "     | 0.0400 |    | 90.3 | 50-150 |  |  |  |       |
| Surrogate: Toluene-d8            | 0.0441 |        | "     | 0.0400 |    | 110  | 50-150 |  |  |  |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0418 |        | "     | 0.0400 |    | 105  | 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 - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
11/15/22 15:49

**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 BFK0244 - EPA 5030 Soil MS**

| <b>Matrix Spike Dup (BFK0244-MSD1)</b>  | <b>Source: 2211138-01</b> |        |          | <b>Prepared: 11/09/22 Analyzed: 11/10/22</b> |    |            |               |      |    |       |
|---|---------------------------|--------|----------|--|----|------------|---------------|------|----|-------|
| Benzene                                 | 0.0791                    | 0.0020 | mg/kg    | 0.0750                                       | ND | 106        | 70-130        | 11.4 | 30 |       |
| Toluene                                 | 0.0742                    | 0.0050 | "        | 0.0750                                       | ND | 99.0       | 70-130        | 11.3 | 30 |       |
| Ethylbenzene                            | 0.0700                    | 0.0050 | "        | 0.0750                                       | ND | 93.3       | 70-130        | 2.17 | 30 |       |
| m,p-Xylene                              | 0.142                     | 0.010  | "        | 0.150  | ND | 94.6       | 70-130        | 3.55 | 30 |       |
| o-Xylene                                | 0.0740                    | 0.0050 | "        | 0.0750                                       | ND | 98.7       | 70-130        | 2.42 | 30 |       |
| 1,2,4-Trimethylbenzene                  | 0.0830                    | 0.0050 | "        | 0.0750                                       | ND | 111        | 70-130        | 3.64 | 30 |       |
| 1,3,5-Trimethylbenzene                  | 0.0784                    | 0.0050 | "        | 0.0750                                       | ND | 105        | 70-130        | 1.27 | 30 |       |
| Naphthalene                             | 0.157                     | 0.0038 | "        | 0.0750                                       | ND | 209        | 70-130        | 6.81 | 30 | QM-07 |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0412</i>             |        | <i>"</i> | <i>0.0400</i>                                |    | <i>103</i> | <i>50-150</i> |      |    |       |
| <i>Surrogate: Toluene-d8</i>            | <i>0.0449</i>             |        | <i>"</i> | <i>0.0400</i>                                |    | <i>112</i> | <i>50-150</i> |      |    |       |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>0.0426</i>             |        | <i>"</i> | <i>0.0400</i>                                |    | <i>106</i> | <i>50-150</i> |      |    |       |

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
11/15/22 15:49

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

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

**Batch BFK0242 - EPA 3550A**

**Blank (BFK0242-BLK1)**

Prepared & Analyzed: 11/09/22

|                                |      |    |       |      |  |      |        |  |  |  |
|--------------------------------|------|----|-------|------|--|------|--------|--|--|--|
| C10-C28 (DRO)                  | ND   | 50 | mg/kg |      |  |      |        |  |  |  |
| C28-C36 (ORO)                  | ND   | 50 | "     |      |  |      |        |  |  |  |
| Surrogate: <i>o</i> -Terphenyl | 11.1 |    | "     | 12.5 |  | 88.7 | 30-150 |  |  |  |

**LCS (BFK0242-BS1)**

Prepared & Analyzed: 11/09/22

|                                |      |    |       |      |  |      |        |  |  |  |
|--------------------------------|------|----|-------|------|--|------|--------|--|--|--|
| C10-C28 (DRO)                  | 462  | 50 | mg/kg | 500  |  | 92.3 | 70-130 |  |  |  |
| Surrogate: <i>o</i> -Terphenyl | 11.6 |    | "     | 12.5 |  | 92.6 | 30-150 |  |  |  |

**Matrix Spike (BFK0242-MS1)**

Source: 2211138-01

Prepared & Analyzed: 11/09/22

|                                |      |    |       |      |      |      |        |  |  |  |
|--------------------------------|------|----|-------|------|------|------|--------|--|--|--|
| C10-C28 (DRO)                  | 431  | 50 | mg/kg | 500  | 15.9 | 83.0 | 70-130 |  |  |  |
| Surrogate: <i>o</i> -Terphenyl | 10.9 |    | "     | 12.5 |      | 87.2 | 30-150 |  |  |  |

**Matrix Spike Dup (BFK0242-MSD1)**

Source: 2211138-01

Prepared & Analyzed: 11/09/22

|                                |      |    |       |      |      |      |        |      |    |  |
|--------------------------------|------|----|-------|------|------|------|--------|------|----|--|
| C10-C28 (DRO)                  | 413  | 50 | mg/kg | 500  | 15.9 | 79.4 | 70-130 | 4.28 | 20 |  |
| Surrogate: <i>o</i> -Terphenyl | 10.1 |    | "     | 12.5 |      | 80.5 | 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 - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
11/15/22 15:49

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BFK0292 - EPA 5030 Soil MS**

**Blank (BFK0292-BLK1)**

Prepared & Analyzed: 11/11/22

|   |               |         |       |               |  |             |               |  |  |  |
|---|---------------|---------|-------|---------------|--|-------------|---------------|--|--|--|
| Acenaphthene                              | ND            | 0.00500 | mg/kg |               |  |             |               |  |  |  |
| Anthracene                                | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| Benzo (a) anthracene                      | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| Benzo (a) pyrene                          | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| Benzo (b) fluoranthene                    | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| Benzo (k) fluoranthene                    | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| Chrysene                                  | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| Dibenz (a,h) anthracene                   | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| Fluoranthene                              | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| Fluorene                                  | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| Indeno (1,2,3-cd) pyrene                  | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| Pyrene                                    | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| 1-Methylnaphthalene                       | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| 2-Methylnaphthalene                       | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0260</i> |         | "     | <i>0.0333</i> |  | <i>78.1</i> | <i>40-150</i> |  |  |  |
| <i>Surrogate: Fluoranthene-d10</i>        | <i>0.0370</i> |         | "     | <i>0.0333</i> |  | <i>111</i>  | <i>40-150</i> |  |  |  |

**LCS (BFK0292-BS1)**

Prepared & Analyzed: 11/11/22

|   |               |         |       |               |             |               |
|---|---------------|---------|-------|---------------|-------------|---------------|
| Acenaphthene                              | 0.0326        | 0.00500 | mg/kg | 0.0333        | 97.8        | 31-137        |
| Anthracene                                | 0.0338        | 0.00500 | "     | 0.0333        | 102         | 30-120        |
| Benzo (a) anthracene                      | 0.0296        | 0.00500 | "     | 0.0333        | 88.8        | 30-120        |
| Benzo (a) pyrene                          | 0.0307        | 0.00500 | "     | 0.0333        | 92.2        | 30-120        |
| Benzo (b) fluoranthene                    | 0.0333        | 0.00500 | "     | 0.0333        | 99.9        | 30-120        |
| Benzo (k) fluoranthene                    | 0.0363        | 0.00500 | "     | 0.0333        | 109         | 30-120        |
| Chrysene                                  | 0.0353        | 0.00500 | "     | 0.0333        | 106         | 30-120        |
| Dibenz (a,h) anthracene                   | 0.0334        | 0.00500 | "     | 0.0333        | 100         | 30-120        |
| Fluoranthene                              | 0.0338        | 0.00500 | "     | 0.0333        | 101         | 30-120        |
| Fluorene                                  | 0.0330        | 0.00500 | "     | 0.0333        | 99.0        | 30-120        |
| Indeno (1,2,3-cd) pyrene                  | 0.0300        | 0.00500 | "     | 0.0333        | 90.1        | 30-120        |
| Pyrene                                    | 0.0347        | 0.00500 | "     | 0.0333        | 104         | 35-142        |
| 1-Methylnaphthalene                       | 0.0355        | 0.00500 | "     | 0.0333        | 107         | 35-142        |
| 2-Methylnaphthalene                       | 0.0376        | 0.00500 | "     | 0.0333        | 113         | 35-142        |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0338</i> |         | "     | <i>0.0333</i> | <i>102</i>  | <i>40-150</i> |
| <i>Surrogate: Fluoranthene-d10</i>        | <i>0.0323</i> |         | "     | <i>0.0333</i> | <i>97.0</i> | <i>40-150</i> |

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

Reported:  
11/15/22 15:49

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFK0292 - EPA 5030 Soil MS

Matrix Spike (BFK0292-MS1)

Source: 221146-01

Prepared & Analyzed: 11/11/22

|                                    |        |         |       |        |    |      |        |  |  |  |
|------------------------------------|--------|---------|-------|--------|----|------|--------|--|--|--|
| Acenaphthene                       | 0.0202 | 0.00500 | mg/kg | 0.0333 | ND | 60.6 | 31-137 |  |  |  |
| Anthracene                         | 0.0189 | 0.00500 | "     | 0.0333 | ND | 56.6 | 30-120 |  |  |  |
| Benzo (a) anthracene               | 0.0212 | 0.00500 | "     | 0.0333 | ND | 63.5 | 30-120 |  |  |  |
| Benzo (a) pyrene                   | 0.0184 | 0.00500 | "     | 0.0333 | ND | 55.1 | 30-120 |  |  |  |
| Benzo (b) fluoranthene             | 0.0183 | 0.00500 | "     | 0.0333 | ND | 54.9 | 30-120 |  |  |  |
| Benzo (k) fluoranthene             | 0.0185 | 0.00500 | "     | 0.0333 | ND | 55.6 | 30-120 |  |  |  |
| Chrysene                           | 0.0192 | 0.00500 | "     | 0.0333 | ND | 57.7 | 30-120 |  |  |  |
| Dibenz (a,h) anthracene            | 0.0175 | 0.00500 | "     | 0.0333 | ND | 52.6 | 30-120 |  |  |  |
| Fluoranthene                       | 0.0209 | 0.00500 | "     | 0.0333 | ND | 62.7 | 30-120 |  |  |  |
| Fluorene                           | 0.0195 | 0.00500 | "     | 0.0333 | ND | 58.6 | 30-120 |  |  |  |
| Indeno (1,2,3-cd) pyrene           | 0.0165 | 0.00500 | "     | 0.0333 | ND | 49.5 | 30-120 |  |  |  |
| Pyrene                             | 0.0196 | 0.00500 | "     | 0.0333 | ND | 58.8 | 35-142 |  |  |  |
| 1-Methylnaphthalene                | 0.0248 | 0.00500 | "     | 0.0333 | ND | 74.4 | 15-130 |  |  |  |
| 2-Methylnaphthalene                | 0.0221 | 0.00500 | "     | 0.0333 | ND | 66.2 | 15-130 |  |  |  |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0229 |         | "     | 0.0333 |    | 68.6 | 40-150 |  |  |  |
| Surrogate: Fluoranthene-d10        | 0.0223 |         | "     | 0.0333 |    | 66.8 | 40-150 |  |  |  |

Matrix Spike Dup (BFK0292-MSD1)

Source: 221146-01

Prepared & Analyzed: 11/11/22

|                                    |        |         |       |        |    |      |        |        |    |  |
|------------------------------------|--------|---------|-------|--------|----|------|--------|--------|----|--|
| Acenaphthene                       | 0.0190 | 0.00500 | mg/kg | 0.0333 | ND | 57.0 | 31-137 | 6.08   | 30 |  |
| Anthracene                         | 0.0194 | 0.00500 | "     | 0.0333 | ND | 58.3 | 30-120 | 2.93   | 30 |  |
| Benzo (a) anthracene               | 0.0211 | 0.00500 | "     | 0.0333 | ND | 63.4 | 30-120 | 0.0662 | 30 |  |
| Benzo (a) pyrene                   | 0.0186 | 0.00500 | "     | 0.0333 | ND | 55.9 | 30-120 | 1.53   | 30 |  |
| Benzo (b) fluoranthene             | 0.0186 | 0.00500 | "     | 0.0333 | ND | 55.8 | 30-120 | 1.72   | 30 |  |
| Benzo (k) fluoranthene             | 0.0184 | 0.00500 | "     | 0.0333 | ND | 55.3 | 30-120 | 0.584  | 30 |  |
| Chrysene                           | 0.0196 | 0.00500 | "     | 0.0333 | ND | 58.7 | 30-120 | 1.81   | 30 |  |
| Dibenz (a,h) anthracene            | 0.0175 | 0.00500 | "     | 0.0333 | ND | 52.6 | 30-120 | 0.105  | 30 |  |
| Fluoranthene                       | 0.0202 | 0.00500 | "     | 0.0333 | ND | 60.6 | 30-120 | 3.48   | 30 |  |
| Fluorene                           | 0.0187 | 0.00500 | "     | 0.0333 | ND | 56.2 | 30-120 | 4.19   | 30 |  |
| Indeno (1,2,3-cd) pyrene           | 0.0170 | 0.00500 | "     | 0.0333 | ND | 51.0 | 30-120 | 2.87   | 30 |  |
| Pyrene                             | 0.0196 | 0.00500 | "     | 0.0333 | ND | 58.7 | 35-142 | 0.254  | 30 |  |
| 1-Methylnaphthalene                | 0.0250 | 0.00500 | "     | 0.0333 | ND | 74.9 | 15-130 | 0.683  | 50 |  |
| 2-Methylnaphthalene                | 0.0210 | 0.00500 | "     | 0.0333 | ND | 63.1 | 15-130 | 4.84   | 50 |  |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0225 |         | "     | 0.0333 |    | 67.4 | 40-150 |        |    |  |
| Surrogate: Fluoranthene-d10        | 0.0218 |         | "     | 0.0333 |    | 65.4 | 40-150 |        |    |  |

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
11/15/22 15:49

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

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

**Batch BFK0311 - EPA 3050B**

**Blank (BFK0311-BLK1)**

Prepared: 11/11/22 Analyzed: 11/13/22

Boron ND 0.0100 mg/L

**LCS (BFK0311-BS1)**

Prepared: 11/11/22 Analyzed: 11/13/22

Boron 5.04 0.0100 mg/L 5.00 101 80-120

**Duplicate (BFK0311-DUP1)**

Source: 2211146-01

Prepared: 11/11/22 Analyzed: 11/13/22

Boron 0.668 0.0100 mg/L 0.653 2.19 20

**Matrix Spike (BFK0311-MS1)**

Source: 2211146-01

Prepared: 11/11/22 Analyzed: 11/13/22

Boron 4.96 0.0100 mg/L 5.00 0.653 86.1 75-125

**Matrix Spike Dup (BFK0311-MSD1)**

Source: 2211146-01

Prepared: 11/11/22 Analyzed: 11/13/22

Boron 5.89 0.0100 mg/L 5.00 0.653 105 75-125 17.2 25

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
11/15/22 15:49

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFK0276 - EPA 3050B**

**Blank (BFK0276-BLK1)**

Prepared & Analyzed: 11/10/22

|          |    |        |           |  |  |  |  |  |  |  |
|----------|----|--------|-----------|--|--|--|--|--|--|--|
| 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  | "         |  |  |  |  |  |  |  |
| Selenium | ND | 0.260  | "         |  |  |  |  |  |  |  |
| Silver   | ND | 0.0200 | "         |  |  |  |  |  |  |  |
| Zinc     | ND | 0.400  | "         |  |  |  |  |  |  |  |

**LCS (BFK0276-BS1)**

Prepared & Analyzed: 11/10/22

|          |      |        |           |      |      |        |
|----------|------|--------|-----------|------|------|--------|
| Arsenic  | 38.5 | 0.200  | mg/kg wet | 40.0 | 96.3 | 80-120 |
| Barium   | 38.3 | 0.400  | "         | 40.0 | 95.7 | 80-120 |
| Cadmium  | 1.90 | 0.200  | "         | 2.00 | 94.8 | 80-120 |
| Copper   | 46.1 | 0.400  | "         | 40.0 | 115  | 80-120 |
| Lead     | 19.7 | 0.200  | "         | 20.0 | 98.6 | 80-120 |
| Nickel   | 44.2 | 0.400  | "         | 40.0 | 111  | 80-120 |
| Selenium | 4.51 | 0.260  | "         | 4.00 | 113  | 80-120 |
| Silver   | 1.93 | 0.0200 | "         | 2.00 | 96.3 | 80-120 |
| Zinc     | 44.2 | 0.400  | "         | 40.0 | 110  | 80-120 |

**Duplicate (BFK0276-DUP1)**

Source: 221138-01

Prepared & Analyzed: 11/10/22

|          |        |        |           |        |       |    |
|----------|--------|--------|-----------|--------|-------|----|
| Arsenic  | 1.93   | 0.203  | mg/kg dry | 1.96   | 1.54  | 20 |
| Barium   | 70.5   | 0.406  | "         | 81.6   | 14.6  | 20 |
| Cadmium  | 0.145  | 0.203  | "         | 0.137  | 5.48  | 20 |
| Copper   | 4.13   | 0.406  | "         | 4.21   | 1.94  | 20 |
| Lead     | 4.82   | 0.203  | "         | 5.61   | 15.1  | 20 |
| Nickel   | 4.25   | 0.406  | "         | 4.21   | 0.806 | 20 |
| Selenium | ND     | 0.264  | "         | ND     |       | 20 |
| Silver   | 0.0187 | 0.0203 | "         | 0.0223 | 17.8  | 20 |
| Zinc     | 16.6   | 0.406  | "         | 17.0   | 2.41  | 20 |

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
11/15/22 15:49

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFK0276 - EPA 3050B**

| <b>Matrix Spike (BFK0276-MS1)</b> | <b>Source: 2211138-01</b> |        |           | <b>Prepared &amp; Analyzed: 11/10/22</b> |        |      |        |  |  |  |  |       |
|-----------------------------------|---------------------------|--------|-----------|--|--------|------|--------|--|--|--|--|-------|
| Arsenic                           | 37.5                      | 0.203  | mg/kg dry | 40.6                                     | 1.96   | 87.5 | 75-125 |  |  |  |  |       |
| Barium                            | 127                       | 0.406  | "         | 40.6                                     | 81.6   | 112  | 75-125 |  |  |  |  |       |
| Cadmium                           | 2.22                      | 0.203  | "         | 2.03                                     | 0.137  | 103  | 75-125 |  |  |  |  |       |
| Copper                            | 34.6                      | 0.406  | "         | 40.6                                     | 4.21   | 74.8 | 75-125 |  |  |  |  | QM-05 |
| Lead                              | 25.4                      | 0.203  | "         | 20.3                                     | 5.61   | 97.3 | 75-125 |  |  |  |  |       |
| Nickel                            | 33.4                      | 0.406  | "         | 40.6                                     | 4.21   | 71.9 | 75-125 |  |  |  |  | QM-05 |
| Selenium                          | 4.51                      | 0.264  | "         | 4.06                                     | ND     | 111  | 75-125 |  |  |  |  |       |
| Silver                            | 2.06                      | 0.0203 | "         | 2.03                                     | 0.0223 | 101  | 75-125 |  |  |  |  |       |
| Zinc                              | 47.5                      | 0.406  | "         | 40.6                                     | 17.0   | 75.2 | 75-125 |  |  |  |  |       |

| <b>Matrix Spike Dup (BFK0276-MSD1)</b> | <b>Source: 2211138-01</b> |        |           | <b>Prepared &amp; Analyzed: 11/10/22</b> |        |      |        |       |    |  |  |       |
|--|---------------------------|--------|-----------|--|--------|------|--------|-------|----|--|--|-------|
| Arsenic                                | 37.8                      | 0.203  | mg/kg dry | 40.6                                     | 1.96   | 88.3 | 75-125 | 0.845 | 25 |  |  |       |
| Barium                                 | 111                       | 0.406  | "         | 40.6                                     | 81.6   | 72.0 | 75-125 | 13.7  | 25 |  |  | QM-05 |
| Cadmium                                | 1.93                      | 0.203  | "         | 2.03                                     | 0.137  | 88.4 | 75-125 | 13.9  | 25 |  |  |       |
| Copper                                 | 34.3                      | 0.406  | "         | 40.6                                     | 4.21   | 74.0 | 75-125 | 0.929 | 25 |  |  | QM-05 |
| Lead                                   | 22.0                      | 0.203  | "         | 20.3                                     | 5.61   | 80.7 | 75-125 | 14.3  | 25 |  |  |       |
| Nickel                                 | 32.7                      | 0.406  | "         | 40.6                                     | 4.21   | 70.1 | 75-125 | 2.22  | 25 |  |  | QM-05 |
| Selenium                               | 4.72                      | 0.264  | "         | 4.06                                     | ND     | 116  | 75-125 | 4.51  | 25 |  |  |       |
| Silver                                 | 1.79                      | 0.0203 | "         | 2.03                                     | 0.0223 | 86.9 | 75-125 | 14.4  | 25 |  |  |       |
| Zinc                                   | 47.0                      | 0.406  | "         | 40.6                                     | 17.0   | 73.9 | 75-125 | 1.15  | 25 |  |  | QM-05 |

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 - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
11/15/22 15:49

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BFK0374 - 3060A Mod**

**Blank (BFK0374-BLK1)**

Prepared & Analyzed: 11/14/22

Chromium, Hexavalent      ND      0.30 mg/kg wet

**LCS (BFK0374-BS1)**

Prepared & Analyzed: 11/14/22

Chromium, Hexavalent      24.5      0.30 mg/kg wet      25.0      98.0      80-120

**Duplicate (BFK0374-DUP1)**

**Source: 2211145-01**

Prepared & Analyzed: 11/14/22

Chromium, Hexavalent      ND      0.30 mg/kg dry      ND      20

**Matrix Spike (BFK0374-MS1)**

**Source: 2211145-01**

Prepared & Analyzed: 11/14/22

Chromium, Hexavalent      29.1      0.30 mg/kg dry      26.9      ND      108      75-125

**Matrix Spike Dup (BFK0374-MSD1)**

**Source: 2211145-01**

Prepared & Analyzed: 11/14/22

Chromium, Hexavalent      29.3      0.30 mg/kg dry      26.9      ND      109      75-125      0.735      20

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
11/15/22 15:49

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

**Summit Scientific**

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

**Batch BFK0265 - General Preparation**

**Blank (BFK0265-BLK1)**

Prepared: 11/10/22 Analyzed: 11/12/22

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

**LCS (BFK0265-BS1)**

Prepared: 11/10/22 Analyzed: 11/12/22

|           |      |        |          |      |  |     |        |  |  |
|-----------|------|--------|----------|------|--|-----|--------|--|--|
| Calcium   | 5.29 | 0.0500 | mg/L wet | 5.00 |  | 106 | 70-130 |  |  |
| Magnesium | 5.25 | 0.0500 | "        | 5.00 |  | 105 | 70-130 |  |  |
| Sodium    | 5.06 | 0.0500 | "        | 5.00 |  | 101 | 70-130 |  |  |

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
11/15/22 15:49

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

**Summit Scientific**

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

**Batch BFK0325 - General Preparation**

| Duplicate (BFK0325-DUP1) | Source: 2210524-02 |  |   | Prepared & Analyzed: 11/12/22 |      |  |  |  |       |  |    |
|--------------------------|--------------------|--|---|-------------------------------|------|--|--|--|-------|--|----|
| % Solids                 | 82.4               |  | % |                               | 81.9 |  |  |  | 0.595 |  | 20 |

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
11/15/22 15:49

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

**Summit Scientific**

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

**Batch BFK0308 - General Preparation**

**Blank (BFK0308-BLK1)**

Prepared & Analyzed: 11/11/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFK0308-BS1)**

Prepared & Analyzed: 11/11/22

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 101 95-105

**Duplicate (BFK0308-DUP1)**

Source: 2211132-01

Prepared & Analyzed: 11/11/22

Specific Conductance (EC) 0.391 0.0100 mmhos/cm 0.413 5.49 20

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
11/15/22 15:49

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

**Summit Scientific**

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

**Batch BFK0307 - General Preparation**

**LCS (BFK0307-BS1)**

Prepared & Analyzed: 11/11/22

pH 8.99 pH Units 9.18 97.9 95-105

**Duplicate (BFK0307-DUP1)**

Source: 2211132-01

Prepared & Analyzed: 11/11/22

pH 8.30 pH Units 8.31 0.120 20

Summit Scientific

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



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

Project: Noble - Cody White D3-2

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
11/15/22 15:49

### Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- QLCS-01 The spike recovery was outside acceptance limits for this analyte indicating a potential high bias. The corresponding samples did not exhibit concentrations above reporting level for this analyte. Data quality is not affected.
- 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

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

December 15, 2022

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

RE: Noble - Cody White D3-2, D3-1, Guttersen D3-17 FL

Work Order # 2211105

Enclosed are the results of analyses for samples received by Summit Scientific on 11/07/22 17:04. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury  
President



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

Project: Noble - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/15/22 10:58

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| BG01@3'   | 2211105-01    | Soil   | 11/07/22 11:20 | 11/07/22 17:04 |
| BG01@6'   | 2211105-02    | Soil   | 11/07/22 11:25 | 11/07/22 17:04 |
| BG02@3'   | 2211105-03    | Soil   | 11/07/22 11:30 | 11/07/22 17:04 |
| BG02@6'   | 2211105-04    | Soil   | 11/07/22 11:35 | 11/07/22 17:04 |
| BG03@3'   | 2211105-05    | Soil   | 11/07/22 11:40 | 11/07/22 17:04 |
| BG03@6'   | 2211105-06    | Soil   | 11/07/22 11:45 | 11/07/22 17:04 |
| BG04@3'   | 2211105-07    | Soil   | 11/07/22 11:55 | 11/07/22 17:04 |
| BG04@6'   | 2211105-08    | Soil   | 11/07/22 12:00 | 11/07/22 17:04 |
| BG05@3'   | 2211105-09    | Soil   | 11/07/22 12:05 | 11/07/22 17:04 |
| BG05@6'   | 2211105-10    | Soil   | 11/07/22 12:10 | 11/07/22 17:04 |
| BG06@3'   | 2211105-11    | Soil   | 11/07/22 12:15 | 11/07/22 17:04 |
| BG06@6'   | 2211105-12    | Soil   | 11/07/22 12:20 | 11/07/22 17:04 |
| BG07@3'   | 2211105-13    | Soil   | 11/07/22 13:00 | 11/07/22 17:04 |
| BG07@6'   | 2211105-14    | Soil   | 11/07/22 13:05 | 11/07/22 17:04 |
| BG08@3'   | 2211105-15    | Soil   | 11/07/22 13:10 | 11/07/22 17:04 |
| BG08@6'   | 2211105-16    | Soil   | 11/07/22 13:15 | 11/07/22 17:04 |
| BG09@3'   | 2211105-17    | Soil   | 11/07/22 13:20 | 11/07/22 17:04 |
| BG09@6'   | 2211105-18    | Soil   | 11/07/22 13:25 | 11/07/22 17:04 |

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.*





S<sub>2</sub>

2/2

Sample Receipt Checklist

S2 Work Order# 2211105

Client: Nobel/Tasman Client Project ID: Cody White D3-2, Cody White D3-1, Gutteresen D3-17

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

-

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

Temp (°C)  Thermometer #

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

Additional Comments (if any):

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

Custodian Printed Name

11.7.22

Date/Time



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

Project: Noble - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/22 10:58

**BG01@3'**  
**2211105-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/07/22 11:20**

| Analyte         | Result       | Reporting |       | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
|                 |              | Limit     | MDL   |           |          |         |          |          |           |       |
| <b>Arsenic</b>  | <b>1.70</b>  | 0.200     |       | mg/kg dry | 1        | BFL0362 | 12/14/22 | 12/14/22 | EPA 6020B |       |
| <b>Barium</b>   | <b>49.7</b>  | 0.400     |       | "         | "        | "       | "        | "        | "         |       |
| Cadmium         | ND           | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Lead</b>     | <b>4.08</b>  | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Selenium</b> | <b>0.357</b> | 0.260     | 0.175 | "         | "        | "       | "        | "        | "         |       |

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

Date Sampled: **11/07/22 11:20**

| Analyte          | Result     | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|                  |            | Limit     | MDL |          |          |         |          |          |           |       |
| <b>Calcium</b>   | <b>345</b> | 0.0540    |     | mg/L dry | 1        | BFK0225 | 11/09/22 | 11/10/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>243</b> | 0.0540    |     | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>535</b> | 0.0540    |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/07/22 11:20**

| Analyte                        | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|--------------------------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                                |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>Sodium Adsorption Ratio</b> | <b>5.40</b> | 0.00100   |     | units | 1        | BFK0339 | 11/12/22 | 11/12/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/07/22 11:20**

| Analyte         | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                 |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>% Solids</b> | <b>92.5</b> |           |     | %     | 1        | BFK0279 | 11/10/22 | 11/11/22 | Calculation |       |

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/15/22 10:58

**BG01@3'**  
**2211105-01 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/07/22 11:20**

| Analyte                   | Result | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|                           |        | Limit     | MDL |          |          |         |          |          |           |       |
| Specific Conductance (EC) | 3.31   | 0.0100    |     | mmhos/cm | 1        | BFK0202 | 11/08/22 | 11/08/22 | EPA 120.1 |       |

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/22 10:58

**BG01@6'**  
**2211105-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/07/22 11:25**

| Analyte  | Result | Reporting |       | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
|          |        | Limit     | MDL   |           |          |         |          |          |           |       |
| Arsenic  | 4.28   | 0.200     |       | mg/kg dry | 1        | BFL0362 | 12/14/22 | 12/14/22 | EPA 6020B |       |
| Barium   | 73.5   | 0.400     |       | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | 0.284  | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| Lead     | 13.6   | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| Selenium | 1.23   | 0.260     | 0.175 | "         | "        | "       | "        | "        | "         |       |

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

Date Sampled: **11/07/22 11:25**

| Analyte   | Result | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|           |        | Limit     | MDL |          |          |         |          |          |           |       |
| Calcium   | 543    | 0.0721    |     | mg/L dry | 1        | BFK0225 | 11/09/22 | 11/10/22 | EPA 6020B |       |
| Magnesium | 231    | 0.0721    |     | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 530    | 0.0721    |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/07/22 11:25**

| Analyte                 | Result | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                         |        | Limit     | MDL |       |          |         |          |          |             |       |
| Sodium Adsorption Ratio | 4.80   | 0.00100   |     | units | 1        | BFK0339 | 11/12/22 | 11/12/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/07/22 11:25**

| Analyte  | Result | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|          |        | Limit     | MDL |       |          |         |          |          |             |       |
| % Solids | 69.4   |           |     | %     | 1        | BFK0279 | 11/10/22 | 11/11/22 | Calculation |       |

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/07/22 11:25**

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

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/15/22 10:58

**BG01@6'**  
**2211105-02 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

|                           |      |        |          |   |         |          |          |           |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|
| Specific Conductance (EC) | 3.57 | 0.0100 | mmhos/cm | 1 | BFK0202 | 11/08/22 | 11/08/22 | EPA 120.1 |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/22 10:58

**BG02@3'**  
**2211105-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/07/22 11:30**

| Analyte         | Result       | Reporting |       | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
|                 |              | Limit     | MDL   |           |          |         |          |          |           |       |
| <b>Arsenic</b>  | <b>1.53</b>  | 0.200     |       | mg/kg dry | 1        | BFL0362 | 12/14/22 | 12/14/22 | EPA 6020B |       |
| <b>Barium</b>   | <b>45.6</b>  | 0.400     |       | "         | "        | "       | "        | "        | "         |       |
| Cadmium         | ND           | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Lead</b>     | <b>3.86</b>  | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Selenium</b> | <b>0.406</b> | 0.260     | 0.175 | "         | "        | "       | "        | "        | "         |       |

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

Date Sampled: **11/07/22 11:30**

| Analyte          | Result      | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|                  |             | Limit     | MDL |          |          |         |          |          |           |       |
| <b>Calcium</b>   | <b>467</b>  | 0.0562    |     | mg/L dry | 1        | BFK0225 | 11/09/22 | 11/10/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>389</b>  | 0.0562    |     | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>1510</b> | 0.0562    |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/07/22 11:30**

| Analyte                        | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|--------------------------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                                |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>Sodium Adsorption Ratio</b> | <b>12.5</b> | 0.00100   |     | units | 1        | BFK0339 | 11/12/22 | 11/12/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/07/22 11:30**

| Analyte         | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                 |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>% Solids</b> | <b>88.9</b> |           |     | %     | 1        | BFK0279 | 11/10/22 | 11/11/22 | Calculation |       |

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/07/22 11:30**

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

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/15/22 10:58

**BG02@3'**  
**2211105-03 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

|                           |      |        |          |   |         |          |          |           |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|
| Specific Conductance (EC) | 5.52 | 0.0100 | mmhos/cm | 1 | BFK0202 | 11/08/22 | 11/08/22 | EPA 120.1 |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/22 10:58

**BG02@6'**  
**2211105-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/07/22 11:35**

| Analyte         | Result       | Reporting |       | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
|                 |              | Limit     | MDL   |           |          |         |          |          |           |       |
| <b>Arsenic</b>  | <b>4.60</b>  | 0.200     |       | mg/kg dry | 1        | BFL0362 | 12/14/22 | 12/14/22 | EPA 6020B |       |
| <b>Barium</b>   | <b>81.6</b>  | 0.400     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Cadmium</b>  | <b>0.251</b> | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Lead</b>     | <b>11.2</b>  | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Selenium</b> | <b>1.01</b>  | 0.260     | 0.175 | "         | "        | "       | "        | "        | "         |       |

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

Date Sampled: **11/07/22 11:35**

| Analyte          | Result      | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|                  |             | Limit     | MDL |          |          |         |          |          |           |       |
| <b>Calcium</b>   | <b>583</b>  | 0.0732    |     | mg/L dry | 1        | BFK0225 | 11/09/22 | 11/10/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>352</b>  | 0.0732    |     | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>1470</b> | 0.0732    |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/07/22 11:35**

| Analyte                        | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|--------------------------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                                |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>Sodium Adsorption Ratio</b> | <b>11.9</b> | 0.00100   |     | units | 1        | BFK0339 | 11/12/22 | 11/12/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/07/22 11:35**

| Analyte         | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                 |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>% Solids</b> | <b>68.3</b> |           |     | %     | 1        | BFK0279 | 11/10/22 | 11/11/22 | Calculation |       |

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/07/22 11:35**

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

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/15/22 10:58

**BG02@6'**  
**2211105-04 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

|                           |      |        |          |   |         |          |          |           |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|
| Specific Conductance (EC) | 5.99 | 0.0100 | mmhos/cm | 1 | BFK0202 | 11/08/22 | 11/08/22 | EPA 120.1 |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/22 10:58

**BG03@3'**  
**2211105-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/07/22 11:40**

| Analyte         | Result       | Reporting |       | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
|                 |              | Limit     | MDL   |           |          |         |          |          |           |       |
| <b>Arsenic</b>  | <b>1.28</b>  | 0.200     |       | mg/kg dry | 1        | BFL0362 | 12/14/22 | 12/14/22 | EPA 6020B |       |
| <b>Barium</b>   | <b>38.2</b>  | 0.400     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Cadmium</b>  | <b>ND</b>    | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Lead</b>     | <b>3.17</b>  | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Selenium</b> | <b>0.416</b> | 0.260     | 0.175 | "         | "        | "       | "        | "        | "         |       |

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

Date Sampled: **11/07/22 11:40**

| Analyte          | Result      | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|                  |             | Limit     | MDL |          |          |         |          |          |           |       |
| <b>Calcium</b>   | <b>419</b>  | 0.0541    |     | mg/L dry | 1        | BFK0225 | 11/09/22 | 11/10/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>413</b>  | 0.0541    |     | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>2080</b> | 0.0541    |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/07/22 11:40**

| Analyte                        | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|--------------------------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                                |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>Sodium Adsorption Ratio</b> | <b>17.3</b> | 0.00100   |     | units | 1        | BFK0339 | 11/12/22 | 11/12/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/07/22 11:40**

| Analyte         | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                 |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>% Solids</b> | <b>92.3</b> |           |     | %     | 1        | BFK0279 | 11/10/22 | 11/11/22 | Calculation |       |

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/07/22 11:40**

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

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/15/22 10:58

**BG03@3'**  
**2211105-05 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

|                           |      |        |          |   |         |          |          |           |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|
| Specific Conductance (EC) | 6.28 | 0.0100 | mmhos/cm | 1 | BFK0202 | 11/08/22 | 11/08/22 | EPA 120.1 |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/22 10:58

**BG03@6'**  
**2211105-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/07/22 11:45**

| Analyte         | Result       | Reporting |       | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
|                 |              | Limit     | MDL   |           |          |         |          |          |           |       |
| <b>Arsenic</b>  | <b>3.35</b>  | 0.200     |       | mg/kg dry | 1        | BFL0362 | 12/14/22 | 12/14/22 | EPA 6020B |       |
| <b>Barium</b>   | <b>53.0</b>  | 0.400     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Cadmium</b>  | <b>0.207</b> | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Lead</b>     | <b>10.0</b>  | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Selenium</b> | <b>0.764</b> | 0.260     | 0.175 | "         | "        | "       | "        | "        | "         |       |

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

Date Sampled: **11/07/22 11:45**

| Analyte          | Result      | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|                  |             | Limit     | MDL |          |          |         |          |          |           |       |
| <b>Calcium</b>   | <b>483</b>  | 0.0698    |     | mg/L dry | 1        | BFK0225 | 11/09/22 | 11/10/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>398</b>  | 0.0698    |     | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>2190</b> | 0.0698    |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/07/22 11:45**

| Analyte                        | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|--------------------------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                                |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>Sodium Adsorption Ratio</b> | <b>17.9</b> | 0.00100   |     | units | 1        | BFK0339 | 11/12/22 | 11/12/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/07/22 11:45**

| Analyte         | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                 |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>% Solids</b> | <b>71.6</b> |           |     | %     | 1        | BFK0279 | 11/10/22 | 11/11/22 | Calculation |       |

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/07/22 11:45**

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

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/15/22 10:58

**BG03@6'**  
**2211105-06 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

|                           |      |        |          |   |         |          |          |           |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|
| Specific Conductance (EC) | 7.40 | 0.0100 | mmhos/cm | 1 | BFK0202 | 11/08/22 | 11/08/22 | EPA 120.1 |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/22 10:58

**BG04@3'**  
**2211105-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/07/22 11:55**

| Analyte         | Result       | Reporting |       | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
|                 |              | Limit     | MDL   |           |          |         |          |          |           |       |
| <b>Arsenic</b>  | <b>2.08</b>  | 0.200     |       | mg/kg dry | 1        | BFL0362 | 12/14/22 | 12/14/22 | EPA 6020B |       |
| <b>Barium</b>   | <b>52.7</b>  | 0.400     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Cadmium</b>  | <b>ND</b>    | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Lead</b>     | <b>5.33</b>  | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Selenium</b> | <b>0.707</b> | 0.260     | 0.175 | "         | "        | "       | "        | "        | "         |       |

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

Date Sampled: **11/07/22 11:55**

| Analyte          | Result      | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|                  |             | Limit     | MDL |          |          |         |          |          |           |       |
| <b>Calcium</b>   | <b>25.7</b> | 0.0572    |     | mg/L dry | 1        | BFK0225 | 11/09/22 | 11/10/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>63.1</b> | 0.0572    |     | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>859</b>  | 0.0572    |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/07/22 11:55**

| Analyte                        | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|--------------------------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                                |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>Sodium Adsorption Ratio</b> | <b>20.8</b> | 0.00100   |     | units | 1        | BFK0339 | 11/12/22 | 11/12/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/07/22 11:55**

| Analyte         | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                 |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>% Solids</b> | <b>87.5</b> |           |     | %     | 1        | BFK0279 | 11/10/22 | 11/11/22 | Calculation |       |

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/07/22 11:55**

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

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/22 10:58

**BG04@3'**  
**2211105-07 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

---

|                           |      |        |          |   |         |          |          |           |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|
| Specific Conductance (EC) | 2.81 | 0.0100 | mmhos/cm | 1 | BFK0202 | 11/08/22 | 11/08/22 | EPA 120.1 |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|

---

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/22 10:58

**BG04@6'**  
**2211105-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/07/22 12:00**

| Analyte         | Result       | Reporting |       | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
|                 |              | Limit     | MDL   |           |          |         |          |          |           |       |
| <b>Arsenic</b>  | <b>2.32</b>  | 0.200     |       | mg/kg dry | 1        | BFL0362 | 12/14/22 | 12/14/22 | EPA 6020B |       |
| <b>Barium</b>   | <b>38.8</b>  | 0.400     |       | "         | "        | "       | "        | "        | "         |       |
| Cadmium         | ND           | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Lead</b>     | <b>4.41</b>  | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Selenium</b> | <b>0.510</b> | 0.260     | 0.175 | "         | "        | "       | "        | "        | "         |       |

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

Date Sampled: **11/07/22 12:00**

| Analyte          | Result      | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|                  |             | Limit     | MDL |          |          |         |          |          |           |       |
| <b>Calcium</b>   | <b>6.95</b> | 0.0595    |     | mg/L dry | 1        | BFK0225 | 11/09/22 | 11/10/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>8.93</b> | 0.0595    |     | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>249</b>  | 0.0595    |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/07/22 12:00**

| Analyte                        | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|--------------------------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                                |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>Sodium Adsorption Ratio</b> | <b>14.7</b> | 0.00100   |     | units | 1        | BFK0339 | 11/12/22 | 11/12/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/07/22 12:00**

| Analyte         | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                 |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>% Solids</b> | <b>84.0</b> |           |     | %     | 1        | BFK0279 | 11/10/22 | 11/11/22 | Calculation |       |

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/07/22 12:00**

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

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/15/22 10:58

**BG04@6'**  
**2211105-08 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

---

|                           |      |        |          |   |         |          |          |           |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|
| Specific Conductance (EC) | 1.05 | 0.0100 | mmhos/cm | 1 | BFK0202 | 11/08/22 | 11/08/22 | EPA 120.1 |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/22 10:58

**BG05@3'**  
**2211105-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/07/22 12:05**

| Analyte         | Result       | Reporting |       | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
|                 |              | Limit     | MDL   |           |          |         |          |          |           |       |
| <b>Arsenic</b>  | <b>3.50</b>  | 0.200     |       | mg/kg dry | 1        | BFL0362 | 12/14/22 | 12/14/22 | EPA 6020B |       |
| <b>Barium</b>   | <b>80.0</b>  | 0.400     |       | "         | "        | "       | "        | "        | "         |       |
| Cadmium         | ND           | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Lead</b>     | <b>7.77</b>  | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Selenium</b> | <b>0.977</b> | 0.260     | 0.175 | "         | "        | "       | "        | "        | "         |       |

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

Date Sampled: **11/07/22 12:05**

| Analyte          | Result      | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|                  |             | Limit     | MDL |          |          |         |          |          |           |       |
| <b>Calcium</b>   | <b>133</b>  | 0.0611    |     | mg/L dry | 1        | BFK0225 | 11/09/22 | 11/10/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>173</b>  | 0.0611    |     | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>1160</b> | 0.0611    |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/07/22 12:05**

| Analyte                        | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|--------------------------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                                |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>Sodium Adsorption Ratio</b> | <b>15.6</b> | 0.00100   |     | units | 1        | BFK0339 | 11/12/22 | 11/12/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/07/22 12:05**

| Analyte         | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                 |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>% Solids</b> | <b>81.9</b> |           |     | %     | 1        | BFK0279 | 11/10/22 | 11/11/22 | Calculation |       |

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/07/22 12:05**

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

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/15/22 10:58

**BG05@3'**  
**2211105-09 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

|                           |      |        |          |   |         |          |          |           |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|
| Specific Conductance (EC) | 4.72 | 0.0100 | mmhos/cm | 1 | BFK0202 | 11/08/22 | 11/08/22 | EPA 120.1 |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/22 10:58

**BG05@6'**  
**2211105-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/07/22 12:10**

| Analyte         | Result       | Reporting |       | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
|                 |              | Limit     | MDL   |           |          |         |          |          |           |       |
| <b>Arsenic</b>  | <b>2.64</b>  | 0.200     |       | mg/kg dry | 1        | BFL0362 | 12/14/22 | 12/14/22 | EPA 6020B |       |
| <b>Barium</b>   | <b>18.6</b>  | 0.400     |       | "         | "        | "       | "        | "        | "         |       |
| Cadmium         | ND           | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Lead</b>     | <b>3.98</b>  | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Selenium</b> | <b>0.436</b> | 0.260     | 0.175 | "         | "        | "       | "        | "        | "         |       |

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

Date Sampled: **11/07/22 12:10**

| Analyte          | Result      | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|                  |             | Limit     | MDL |          |          |         |          |          |           |       |
| <b>Calcium</b>   | <b>16.7</b> | 0.0562    |     | mg/L dry | 1        | BFK0225 | 11/09/22 | 11/10/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>20.9</b> | 0.0562    |     | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>260</b>  | 0.0562    |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/07/22 12:10**

| Analyte                        | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|--------------------------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                                |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>Sodium Adsorption Ratio</b> | <b>10.0</b> | 0.00100   |     | units | 1        | BFK0339 | 11/12/22 | 11/12/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/07/22 12:10**

| Analyte         | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                 |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>% Solids</b> | <b>88.9</b> |           |     | %     | 1        | BFK0279 | 11/10/22 | 11/11/22 | Calculation |       |

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/07/22 12:10**

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

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/15/22 10:58

**BG05@6'**  
**2211105-10 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

|                           |       |        |          |   |         |          |          |           |
|---------------------------|-------|--------|----------|---|---------|----------|----------|-----------|
| Specific Conductance (EC) | 0.851 | 0.0100 | mmhos/cm | 1 | BFK0202 | 11/08/22 | 11/08/22 | EPA 120.1 |
|---------------------------|-------|--------|----------|---|---------|----------|----------|-----------|

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/22 10:58

**BG06@3'**  
**2211105-11 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/07/22 12:15**

| Analyte         | Result       | Reporting |       | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
|                 |              | Limit     | MDL   |           |          |         |          |          |           |       |
| <b>Arsenic</b>  | <b>2.12</b>  | 0.200     |       | mg/kg dry | 1        | BFL0362 | 12/14/22 | 12/14/22 | EPA 6020B |       |
| <b>Barium</b>   | <b>63.9</b>  | 0.400     |       | "         | "        | "       | "        | "        | "         |       |
| Cadmium         | ND           | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Lead</b>     | <b>5.18</b>  | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Selenium</b> | <b>0.645</b> | 0.260     | 0.175 | "         | "        | "       | "        | "        | "         |       |

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

Date Sampled: **11/07/22 12:15**

| Analyte          | Result      | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|                  |             | Limit     | MDL |          |          |         |          |          |           |       |
| <b>Calcium</b>   | <b>35.2</b> | 0.0574    |     | mg/L dry | 1        | BFK0225 | 11/09/22 | 11/11/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>73.3</b> | 0.0574    |     | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>920</b>  | 0.0574    |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/07/22 12:15**

| Analyte                        | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|--------------------------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                                |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>Sodium Adsorption Ratio</b> | <b>20.3</b> | 0.00100   |     | units | 1        | BFK0339 | 11/12/22 | 11/12/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/07/22 12:15**

| Analyte         | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                 |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>% Solids</b> | <b>87.2</b> |           |     | %     | 1        | BFK0279 | 11/10/22 | 11/11/22 | Calculation |       |

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/07/22 12:15**

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

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/15/22 10:58

**BG06@3'**  
**2211105-11 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

|                           |      |        |          |   |         |          |          |           |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|
| Specific Conductance (EC) | 2.45 | 0.0100 | mmhos/cm | 1 | BFK0202 | 11/08/22 | 11/08/22 | EPA 120.1 |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/22 10:58

**BG06@6'**  
**2211105-12 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/07/22 12:20**

| Analyte         | Result       | Reporting |       | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
|                 |              | Limit     | MDL   |           |          |         |          |          |           |       |
| <b>Arsenic</b>  | <b>1.63</b>  | 0.200     |       | mg/kg dry | 1        | BFL0362 | 12/14/22 | 12/14/22 | EPA 6020B |       |
| <b>Barium</b>   | <b>27.5</b>  | 0.400     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Cadmium</b>  | <b>ND</b>    | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Lead</b>     | <b>4.68</b>  | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Selenium</b> | <b>0.441</b> | 0.260     | 0.175 | "         | "        | "       | "        | "        | "         |       |

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

Date Sampled: **11/07/22 12:20**

| Analyte          | Result      | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|                  |             | Limit     | MDL |          |          |         |          |          |           |       |
| <b>Calcium</b>   | <b>11.3</b> | 0.0579    |     | mg/L dry | 1        | BFK0225 | 11/09/22 | 11/11/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>14.1</b> | 0.0579    |     | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>225</b>  | 0.0579    |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/07/22 12:20**

| Analyte                        | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|--------------------------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                                |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>Sodium Adsorption Ratio</b> | <b>10.5</b> | 0.00100   |     | units | 1        | BFK0339 | 11/12/22 | 11/12/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/07/22 12:20**

| Analyte         | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                 |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>% Solids</b> | <b>86.4</b> |           |     | %     | 1        | BFK0279 | 11/10/22 | 11/11/22 | Calculation |       |

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/07/22 12:20**

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

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/22 10:58

**BG06@6'**  
**2211105-12 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

---

|                           |       |        |          |   |         |          |          |           |
|---------------------------|-------|--------|----------|---|---------|----------|----------|-----------|
| Specific Conductance (EC) | 0.725 | 0.0100 | mmhos/cm | 1 | BFK0202 | 11/08/22 | 11/08/22 | EPA 120.1 |
|---------------------------|-------|--------|----------|---|---------|----------|----------|-----------|

---

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/22 10:58

**BG07@3'**  
**2211105-13 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/07/22 13:00**

| Analyte  | Result | Reporting |       | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
|          |        | Limit     | MDL   |           |          |         |          |          |           |       |
| Arsenic  | 5.48   | 0.200     |       | mg/kg dry | 1        | BFL0362 | 12/14/22 | 12/14/22 | EPA 6020B |       |
| Barium   | 92.6   | 0.400     |       | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | 0.318  | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| Lead     | 12.1   | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| Selenium | 1.83   | 0.260     | 0.175 | "         | "        | "       | "        | "        | "         |       |

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

Date Sampled: **11/07/22 13:00**

| Analyte   | Result | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|           |        | Limit     | MDL |          |          |         |          |          |           |       |
| Calcium   | 532    | 0.0701    |     | mg/L dry | 1        | BFK0225 | 11/09/22 | 11/11/22 | EPA 6020B |       |
| Magnesium | 781    | 0.0701    |     | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 4730   | 0.0701    |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/07/22 13:00**

| Analyte                 | Result | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                         |        | Limit     | MDL |       |          |         |          |          |             |       |
| Sodium Adsorption Ratio | 30.5   | 0.00100   |     | units | 1        | BFK0339 | 11/12/22 | 11/12/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/07/22 13:00**

| Analyte  | Result | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|          |        | Limit     | MDL |       |          |         |          |          |             |       |
| % Solids | 71.3   |           |     | %     | 1        | BFK0279 | 11/10/22 | 11/11/22 | Calculation |       |

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/07/22 13:00**

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

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/15/22 10:58

**BG07@3'**  
**2211105-13 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

|                           |       |        |          |   |         |          |          |           |
|---------------------------|-------|--------|----------|---|---------|----------|----------|-----------|
| Specific Conductance (EC) | 0.116 | 0.0100 | mmhos/cm | 1 | BFK0202 | 11/08/22 | 11/08/22 | EPA 120.1 |
|---------------------------|-------|--------|----------|---|---------|----------|----------|-----------|

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/22 10:58

**BG07@6'**  
**2211105-14 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/07/22 13:05**

| Analyte  | Result | Reporting |       | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
|          |        | Limit     | MDL   |           |          |         |          |          |           |       |
| Arsenic  | 3.34   | 0.200     |       | mg/kg dry | 1        | BFL0362 | 12/14/22 | 12/14/22 | EPA 6020B |       |
| Barium   | 75.5   | 0.400     |       | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | 0.396  | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| Lead     | 13.4   | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| Selenium | 1.39   | 0.260     | 0.175 | "         | "        | "       | "        | "        | "         |       |

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

Date Sampled: **11/07/22 13:05**

| Analyte   | Result | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|           |        | Limit     | MDL |          |          |         |          |          |           |       |
| Calcium   | 190    | 0.0704    |     | mg/L dry | 1        | BFK0225 | 11/09/22 | 11/11/22 | EPA 6020B |       |
| Magnesium | 211    | 0.0704    |     | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 1730   | 0.0704    |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/07/22 13:05**

| Analyte                 | Result | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                         |        | Limit     | MDL |       |          |         |          |          |             |       |
| Sodium Adsorption Ratio | 20.5   | 0.00100   |     | units | 1        | BFK0339 | 11/12/22 | 11/12/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/07/22 13:05**

| Analyte  | Result | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|          |        | Limit     | MDL |       |          |         |          |          |             |       |
| % Solids | 71.0   |           |     | %     | 1        | BFK0279 | 11/10/22 | 11/11/22 | Calculation |       |

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/07/22 13:05**

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

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/15/22 10:58

**BG07@6'**  
**2211105-14 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

---

|                           |      |        |          |   |         |          |          |           |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|
| Specific Conductance (EC) | 4.88 | 0.0100 | mmhos/cm | 1 | BFK0202 | 11/08/22 | 11/08/22 | EPA 120.1 |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/22 10:58

**BG08@3'**  
**2211105-15 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/07/22 13:10**

| Analyte  | Result | Reporting |       | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
|          |        | Limit     | MDL   |           |          |         |          |          |           |       |
| Arsenic  | 4.38   | 0.200     |       | mg/kg dry | 1        | BFL0362 | 12/14/22 | 12/14/22 | EPA 6020B |       |
| Barium   | 134    | 0.400     |       | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | 0.326  | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| Lead     | 13.7   | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| Selenium | 1.84   | 0.260     | 0.175 | "         | "        | "       | "        | "        | "         |       |

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

Date Sampled: **11/07/22 13:10**

| Analyte   | Result | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|           |        | Limit     | MDL |          |          |         |          |          |           |       |
| Calcium   | 515    | 0.0687    |     | mg/L dry | 1        | BFK0225 | 11/09/22 | 11/11/22 | EPA 6020B |       |
| Magnesium | 636    | 0.0687    |     | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 3960   | 0.0687    |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/07/22 13:10**

| Analyte                 | Result | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                         |        | Limit     | MDL |       |          |         |          |          |             |       |
| Sodium Adsorption Ratio | 27.6   | 0.00100   |     | units | 1        | BFK0339 | 11/12/22 | 11/12/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/07/22 13:10**

| Analyte  | Result | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|          |        | Limit     | MDL |       |          |         |          |          |             |       |
| % Solids | 72.8   |           |     | %     | 1        | BFK0279 | 11/10/22 | 11/11/22 | Calculation |       |

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/07/22 13:10**

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

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/15/22 10:58

**BG08@3'**  
**2211105-15 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

---

|                           |       |        |          |   |         |          |          |           |
|---------------------------|-------|--------|----------|---|---------|----------|----------|-----------|
| Specific Conductance (EC) | 0.321 | 0.0100 | mmhos/cm | 1 | BFK0202 | 11/08/22 | 11/08/22 | EPA 120.1 |
|---------------------------|-------|--------|----------|---|---------|----------|----------|-----------|

---

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/22 10:58

**BG08@6'**  
**2211105-16 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/07/22 13:15**

| Analyte         | Result       | Reporting |       | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
|                 |              | Limit     | MDL   |           |          |         |          |          |           |       |
| <b>Arsenic</b>  | <b>9.05</b>  | 0.200     |       | mg/kg dry | 1        | BFL0362 | 12/14/22 | 12/14/22 | EPA 6020B |       |
| <b>Barium</b>   | <b>208</b>   | 0.400     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Cadmium</b>  | <b>0.447</b> | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Lead</b>     | <b>14.9</b>  | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Selenium</b> | <b>2.03</b>  | 0.260     | 0.175 | "         | "        | "       | "        | "        | "         |       |

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

Date Sampled: **11/07/22 13:15**

| Analyte          | Result      | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|                  |             | Limit     | MDL |          |          |         |          |          |           |       |
| <b>Calcium</b>   | <b>98.2</b> | 0.0726    |     | mg/L dry | 1        | BFK0225 | 11/09/22 | 11/11/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>181</b>  | 0.0726    |     | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>1520</b> | 0.0726    |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/07/22 13:15**

| Analyte                        | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|--------------------------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                                |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>Sodium Adsorption Ratio</b> | <b>21.0</b> | 0.00100   |     | units | 1        | BFK0339 | 11/12/22 | 11/12/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/07/22 13:15**

| Analyte         | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                 |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>% Solids</b> | <b>68.9</b> |           |     | %     | 1        | BFK0279 | 11/10/22 | 11/11/22 | Calculation |       |

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/07/22 13:15**

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

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/15/22 10:58

**BG08@6'**  
**2211105-16 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

|                           |      |        |          |   |         |          |          |           |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|
| Specific Conductance (EC) | 4.60 | 0.0100 | mmhos/cm | 1 | BFK0202 | 11/08/22 | 11/08/22 | EPA 120.1 |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/22 10:58

**BG09@3'**  
**2211105-17 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/07/22 13:20**

| Analyte  | Result | Reporting |       | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
|          |        | Limit     | MDL   |           |          |         |          |          |           |       |
| Arsenic  | 5.51   | 0.200     |       | mg/kg dry | 1        | BFL0362 | 12/14/22 | 12/14/22 | EPA 6020B |       |
| Barium   | 149    | 0.400     |       | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | 0.470  | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| Lead     | 12.8   | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| Selenium | 1.61   | 0.260     | 0.175 | "         | "        | "       | "        | "        | "         |       |

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

Date Sampled: **11/07/22 13:20**

| Analyte   | Result | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|           |        | Limit     | MDL |          |          |         |          |          |           |       |
| Calcium   | 317    | 0.0691    |     | mg/L dry | 1        | BFK0225 | 11/09/22 | 11/11/22 | EPA 6020B |       |
| Magnesium | 662    | 0.0691    |     | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 4000   | 0.0691    |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/07/22 13:20**

| Analyte                 | Result | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                         |        | Limit     | MDL |       |          |         |          |          |             |       |
| Sodium Adsorption Ratio | 29.4   | 0.00100   |     | units | 1        | BFK0339 | 11/12/22 | 11/12/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/07/22 13:20**

| Analyte  | Result | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|          |        | Limit     | MDL |       |          |         |          |          |             |       |
| % Solids | 72.3   |           |     | %     | 1        | BFK0279 | 11/10/22 | 11/11/22 | Calculation |       |

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/07/22 13:20**

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

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/15/22 10:58

**BG09@3'**  
**2211105-17 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

|                           |      |        |          |   |         |          |          |           |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|
| Specific Conductance (EC) | 4.28 | 0.0100 | mmhos/cm | 1 | BFK0202 | 11/08/22 | 11/08/22 | EPA 120.1 |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/22 10:58

**BG09@6'**  
**2211105-18 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/07/22 13:25**

| Analyte         | Result       | Reporting |       | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
|                 |              | Limit     | MDL   |           |          |         |          |          |           |       |
| <b>Arsenic</b>  | <b>4.03</b>  | 0.200     |       | mg/kg dry | 1        | BFL0362 | 12/14/22 | 12/14/22 | EPA 6020B |       |
| <b>Barium</b>   | <b>114</b>   | 0.400     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Cadmium</b>  | <b>0.365</b> | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Lead</b>     | <b>13.0</b>  | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Selenium</b> | <b>1.42</b>  | 0.260     | 0.175 | "         | "        | "       | "        | "        | "         |       |

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

Date Sampled: **11/07/22 13:25**

| Analyte          | Result      | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|                  |             | Limit     | MDL |          |          |         |          |          |           |       |
| <b>Calcium</b>   | <b>273</b>  | 0.0714    |     | mg/L dry | 1        | BFK0225 | 11/09/22 | 11/11/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>293</b>  | 0.0714    |     | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>2140</b> | 0.0714    |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/07/22 13:25**

| Analyte                        | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|--------------------------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                                |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>Sodium Adsorption Ratio</b> | <b>21.4</b> | 0.00100   |     | units | 1        | BFK0339 | 11/12/22 | 11/12/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/07/22 13:25**

| Analyte         | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                 |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>% Solids</b> | <b>70.0</b> |           |     | %     | 1        | BFK0279 | 11/10/22 | 11/11/22 | Calculation |       |

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/07/22 13:25**

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

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/15/22 10:58

**BG09@6'**  
**2211105-18 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

---

|                           |      |        |          |   |         |          |          |           |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|
| Specific Conductance (EC) | 5.45 | 0.0100 | mmhos/cm | 1 | BFK0202 | 11/08/22 | 11/08/22 | EPA 120.1 |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|

---

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/22 10:58

**Total Metals by EPA 6020B - Quality Control**

**Summit Scientific**

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

**Batch BFL0362 - EPA 3050B**

**Blank (BFL0362-BLK1)**

Prepared & Analyzed: 12/14/22

|          |    |       |           |  |  |  |  |  |  |  |
|----------|----|-------|-----------|--|--|--|--|--|--|--|
| Arsenic  | ND | 0.200 | mg/kg wet |  |  |  |  |  |  |  |
| Barium   | ND | 0.400 | "         |  |  |  |  |  |  |  |
| Cadmium  | ND | 0.200 | "         |  |  |  |  |  |  |  |
| Lead     | ND | 0.200 | "         |  |  |  |  |  |  |  |
| Selenium | ND | 0.260 | "         |  |  |  |  |  |  |  |

**LCS (BFL0362-BS1)**

Prepared & Analyzed: 12/14/22

|          |      |       |           |      |  |      |        |  |  |  |
|----------|------|-------|-----------|------|--|------|--------|--|--|--|
| Arsenic  | 39.7 | 0.200 | mg/kg wet | 40.0 |  | 99.2 | 80-120 |  |  |  |
| Barium   | 33.0 | 0.400 | "         | 40.0 |  | 82.4 | 80-120 |  |  |  |
| Cadmium  | 1.77 | 0.200 | "         | 2.00 |  | 88.7 | 80-120 |  |  |  |
| Lead     | 16.7 | 0.200 | "         | 20.0 |  | 83.3 | 80-120 |  |  |  |
| Selenium | 3.58 | 0.260 | "         | 4.00 |  | 89.5 | 80-120 |  |  |  |

**Duplicate (BFL0362-DUP1)**

Source: 2211105-01

Prepared & Analyzed: 12/14/22

|          |        |       |           |        |  |  |      |    |  |       |
|----------|--------|-------|-----------|--------|--|--|------|----|--|-------|
| Arsenic  | 1.64   | 0.200 | mg/kg dry | 1.70   |  |  | 3.51 | 20 |  |       |
| Barium   | 30.9   | 0.400 | "         | 49.7   |  |  | 46.6 | 20 |  | QR-03 |
| Cadmium  | 0.0713 | 0.200 | "         | 0.0701 |  |  | 1.79 | 20 |  |       |
| Lead     | 2.89   | 0.200 | "         | 4.08   |  |  | 34.1 | 20 |  | QR-03 |
| Selenium | 0.294  | 0.260 | "         | 0.357  |  |  | 19.4 | 20 |  |       |

**Matrix Spike (BFL0362-MS1)**

Source: 2211105-01

Prepared & Analyzed: 12/14/22

|          |      |       |           |      |        |      |        |  |  |  |
|----------|------|-------|-----------|------|--------|------|--------|--|--|--|
| Arsenic  | 43.9 | 0.200 | mg/kg dry | 43.2 | 1.70   | 97.5 | 75-125 |  |  |  |
| Barium   | 83.4 | 0.400 | "         | 43.2 | 49.7   | 77.9 | 75-125 |  |  |  |
| Cadmium  | 2.03 | 0.200 | "         | 2.16 | 0.0701 | 90.6 | 75-125 |  |  |  |
| Lead     | 21.1 | 0.200 | "         | 21.6 | 4.08   | 78.7 | 75-125 |  |  |  |
| Selenium | 4.61 | 0.260 | "         | 4.32 | 0.357  | 98.4 | 75-125 |  |  |  |

**Matrix Spike Dup (BFL0362-MSD1)**

Source: 2211105-01

Prepared & Analyzed: 12/14/22

|          |      |       |           |      |        |      |        |       |    |  |
|----------|------|-------|-----------|------|--------|------|--------|-------|----|--|
| Arsenic  | 43.6 | 0.200 | mg/kg dry | 43.2 | 1.70   | 96.9 | 75-125 | 0.592 | 25 |  |
| Barium   | 91.2 | 0.400 | "         | 43.2 | 49.7   | 95.9 | 75-125 | 8.90  | 25 |  |
| Cadmium  | 2.36 | 0.200 | "         | 2.16 | 0.0701 | 106  | 75-125 | 15.3  | 25 |  |
| Lead     | 25.0 | 0.200 | "         | 21.6 | 4.08   | 96.6 | 75-125 | 16.7  | 25 |  |
| Selenium | 4.36 | 0.260 | "         | 4.32 | 0.357  | 92.6 | 75-125 | 5.60  | 25 |  |

Summit Scientific

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



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

Project: Noble - Cody White D3-2, D3-1, Gutterson D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/22 10:58

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

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

**Batch BFK0225 - General Preparation**

**Blank (BFK0225-BLK1)**

Prepared: 11/09/22 Analyzed: 11/10/22

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

**LCS (BFK0225-BS1)**

Prepared: 11/09/22 Analyzed: 11/10/22

|           |      |        |          |      |  |      |        |  |  |  |
|-----------|------|--------|----------|------|--|------|--------|--|--|--|
| Calcium   | 5.02 | 0.0500 | mg/L wet | 5.00 |  | 100  | 70-130 |  |  |  |
| Magnesium | 5.02 | 0.0500 | "        | 5.00 |  | 100  | 70-130 |  |  |  |
| Sodium    | 4.79 | 0.0500 | "        | 5.00 |  | 95.7 | 70-130 |  |  |  |

Summit Scientific

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



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

Project: Noble - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/15/22 10:58

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

**Summit Scientific**

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

**Batch BFK0279 - General Preparation**

| Duplicate (BFK0279-DUP1) | Source: 2211105-01 | Prepared: 11/10/22 | Analyzed: 11/11/22 |         |    |
|--------------------------|--------------------|--------------------|--------------------|---------|----|
| % Solids                 | 92.5               | %                  | 92.5               | 0.00806 | 20 |

Summit Scientific

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



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

Project: Noble - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/22 10:58

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013 - Quality Control**  
**Summit Scientific**

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

**Batch BFK0202 - General Preparation**

**Blank (BFK0202-BLK1)**

Prepared & Analyzed: 11/08/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFK0202-BS1)**

Prepared & Analyzed: 11/08/22

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

**Duplicate (BFK0202-DUP1)**

Source: 2211105-01

Prepared & Analyzed: 11/08/22

Specific Conductance (EC) 2.96 0.0100 mmhos/cm 3.31 11.0 20

Summit Scientific

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



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

Project: Noble - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/22 10:58

### Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery 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

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

December 16, 2022

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

RE: Noble - Cody White D3-2, D3-1, Guttersen D3-17 FL

Work Order # 2211147

Enclosed are the results of analyses for samples received by Summit Scientific on 11/08/22 17:16. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury  
President



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

Project: Noble - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/16/22 11:30

### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| BG10@3'   | 2211147-01    | Soil   | 11/08/22 10:40 | 11/08/22 17:16 |
| BG10@6'   | 2211147-02    | Soil   | 11/08/22 10:45 | 11/08/22 17:16 |
| BG11@3'   | 2211147-03    | Soil   | 11/08/22 10:50 | 11/08/22 17:16 |
| BG11@6'   | 2211147-04    | Soil   | 11/08/22 10:55 | 11/08/22 17:16 |
| BG12@3'   | 2211147-05    | Soil   | 11/08/22 11:00 | 11/08/22 17:16 |
| BG12@6'   | 2211147-06    | Soil   | 11/08/22 11:05 | 11/08/22 17:16 |
| BG13@3'   | 2211147-07    | Soil   | 11/08/22 11:10 | 11/08/22 17:16 |
| BG13@6'   | 2211147-08    | Soil   | 11/08/22 11:15 | 11/08/22 17:16 |
| BG14@3'   | 2211147-09    | Soil   | 11/08/22 11:20 | 11/08/22 17:16 |
| BG14@6'   | 2211147-10    | Soil   | 11/08/22 11:25 | 11/08/22 17:16 |
| BG15@3'   | 2211147-11    | Soil   | 11/08/22 11:30 | 11/08/22 17:16 |
| BG15@6'   | 2211147-12    | Soil   | 11/08/22 11:35 | 11/08/22 17:16 |

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.*

# Summit Scientific

2211147.1

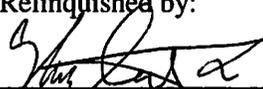
S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310

Page 1 of 2

Client: Noble / Tasman Project Manager: Jake Whritenour Invoice:  
Address: 6855 W. 119th Ave E-Mail: jwhritenour@tasman-geo.com  
City/State/Zip: Broomfield, CO 80020  
Phone: 303-261-6246 Project Name: Cody White D3-2, Cody White D03-1, & Guttarsen D3-17  
Sampler Name: Stanley Gilbert Project Number:

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative |      |      |       | Matrix |      |                |       | Analysis Requested |           |           |         |             |      | Special Instructions |                                |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|----------------|-------|--------------------|-----------|-----------|---------|-------------|------|----------------------|--------------------------------|
|    |                    |              |              |                 | HCl          | HNO3 | None | Other | Water  | Soil | Air-Canister # | Other | VOC - 915          | TPH - 915 | PAH - 915 | EC, SAR | Boron - HWS | HOLD |                      |                                |
| 1  | BG10G3'            | 11/8/22      | 10:40        | 3               |              |      | X    |       |        | X    |                |       |                    |           |           | X       |             |      |                      | pH, EC, SAR by saturated paste |
| 2  | BG10G6'            |              | 10:45        |                 |              |      |      |       |        |      |                |       |                    |           |           |         |             |      |                      |                                |
| 3  | BG11G3'            |              | 10:50        |                 |              |      |      |       |        |      |                |       |                    |           |           |         |             |      |                      |                                |
| 4  | BG11G6'            |              | 10:55        |                 |              |      |      |       |        |      |                |       |                    |           |           |         |             |      |                      |                                |
| 5  | BG12G3'            |              | 11:00        |                 |              |      |      |       |        |      |                |       |                    |           |           |         |             |      |                      |                                |
| 6  | BG12G6'            |              | 11:05        |                 |              |      |      |       |        |      |                |       |                    |           |           |         |             |      |                      |                                |
| 7  | BG13G3'            |              | 11:10        |                 |              |      |      |       |        |      |                |       |                    |           |           |         |             |      |                      |                                |
| 8  | BG13G6'            |              | 11:15        |                 |              |      |      |       |        |      |                |       |                    |           |           |         |             |      |                      |                                |
| 9  | BG14G3'            |              | 11:20        |                 |              |      |      |       |        |      |                |       |                    |           |           |         |             |      |                      |                                |
| 10 | BG14G6'            |              | 11:25        |                 |              |      |      |       |        |      |                |       |                    |           |           |         |             |      |                      |                                |

|   |                          |  |                          |   |               |
|---|--------------------------|--|--------------------------|---|---------------|
| Relinquished by:  | Date/Time: 11/8/22 16:18 | Received by: Tasman's Lock Box   | Date/Time: 11/8/22 16:18 | <b>Turn Around Time</b> (Check)<br>Same Day _____ 72 hours<br>24 hours _____ Standard <input checked="" type="checkbox"/><br>48 hours _____<br><b>Sample Integrity:</b><br>Temperature Upon Receipt: <u>9.4</u><br>Samples Intact: <input checked="" type="checkbox"/> Yes No | <b>Notes:</b> |
| Relinquished by: Tasman's Lock Box  | Date/Time: 11/8/22 17:10 | Received by:  | Date/Time: 11/8/22 17:10 |   |               |
| Relinquished by:  | Date/Time:               | Received by:   | Date/Time:               |   |               |

# Summit Scientific

2211147.2

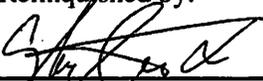
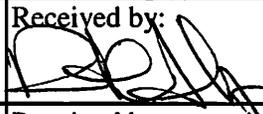
S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310

Page 2 of 2

Client: Noble / Tasman Project Manager: Jake Whritenour Invoice:  
Address: 6855 W. 119th Ave E-Mail: jwhritenour@tasman-geo.com  
City/State/Zip: Broomfield, CO 80020  
Phone: 303-261-6246 Project Name: Cody White D3-2, Cody White D03-1, & Gutteresen D3-17  
Sampler Name: Stanley Gilbert Project Number:

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative |      |      |       | Matrix |      |                |       | Analysis Requested |           |           |         |             |      | Special Instructions |  |                                |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|----------------|-------|--------------------|-----------|-----------|---------|-------------|------|----------------------|--|--------------------------------|
|    |                    |              |              |                 | HCl          | HNO3 | None | Other | Water  | Soil | Air-Canister # | Other | VOC - 915          | TPH - 915 | PAH - 915 | EC, SAR | Boron - HWS | HOLD |                      |  |                                |
| 1  | B61509'            | 11/8/22      | 11:30        | 3               |              |      | X    |       |        | X    |                |       |                    |           |           | X       |             |      |                      |  | pH, EC, SAR by saturated paste |
| 2  | B61506'            | 1            | 11:05        | 3               |              |      | X    |       |        | X    |                |       |                    |           |           | X       |             |      |                      |  |                                |
| 3  |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |           |           |         |             |      |                      |  |                                |
| 4  |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |           |           |         |             |      |                      |  |                                |
| 5  |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |           |           |         |             |      |                      |  |                                |
| 6  |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |           |           |         |             |      |                      |  |                                |
| 7  |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |           |           |         |             |      |                      |  |                                |
| 8  |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |           |           |         |             |      |                      |  |                                |
| 9  |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |           |           |         |             |      |                      |  |                                |
| 10 |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |           |           |         |             |      |                      |  |                                |

|   |                          |  |                          |  |               |
|---|--------------------------|--|--------------------------|--|---------------|
| Relinquished by:  | Date/Time: 11/8/22 16:18 | Received by: Tasman's Lock Box   | Date/Time: 11/8/22 16:18 | <b>Turn Around Time</b> (Check)<br>Same Day _____ 72 hours<br>24 hours _____ Standard <input checked="" type="checkbox"/><br>48 hours _____<br><b>Sample Integrity:</b><br>Temperature Upon Receipt: <u>9.4</u><br>Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <b>Notes:</b> |
| Relinquished by: Tasman's Lock Box  | Date/Time: 11/8/22 17:10 | Received by:  | Date/Time: 11/8/22 17:10 |  |               |
| Relinquished by:  | Date/Time:               | Received by:   | Date/Time:               |  |               |

S<sub>2</sub>

2/2  
Sample Receipt Checklist

S2 Work Order# 2211197

Client: Nobletasman Client Project ID: Cody White D3-2 Cody White D03-1 Gutforsen D3-17

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

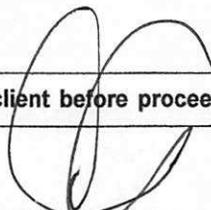
Matrix (Check all that apply) Air  Soil/Solid  Water  Other

Temp (°C)  Thermometer #

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

Additional Comments (if any):

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

  
Custodian Printed Name

11-8-22  
Date/Time



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

Project: Noble - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/16/22 11:30

**BG10@3'**  
**2211147-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/08/22 10:40**

| Analyte         | Result       | Reporting |       | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
|                 |              | Limit     | MDL   |           |          |         |          |          |           |       |
| <b>Arsenic</b>  | <b>2.50</b>  | 0.200     |       | mg/kg dry | 1        | BFL0363 | 12/14/22 | 12/15/22 | EPA 6020B |       |
| <b>Barium</b>   | <b>84.3</b>  | 0.400     |       | "         | "        | "       | "        | "        | "         |       |
| Cadmium         | ND           | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Lead</b>     | <b>5.74</b>  | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Selenium</b> | <b>0.549</b> | 0.260     | 0.175 | "         | "        | "       | "        | "        | "         |       |

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

Date Sampled: **11/08/22 10:40**

| Analyte          | Result      | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|                  |             | Limit     | MDL |          |          |         |          |          |           |       |
| <b>Calcium</b>   | <b>8.23</b> | 0.0575    |     | mg/L dry | 1        | BFK0310 | 11/11/22 | 11/13/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>16.0</b> | 0.0575    |     | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>596</b>  | 0.0575    |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/08/22 10:40**

| Analyte                        | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|--------------------------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                                |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>Sodium Adsorption Ratio</b> | <b>27.9</b> | 0.00100   |     | units | 1        | BFK0360 | 11/14/22 | 11/14/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/08/22 10:40**

| Analyte         | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                 |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>% Solids</b> | <b>87.0</b> |           |     | %     | 1        | BFK0325 | 11/12/22 | 11/12/22 | Calculation |       |

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/16/22 11:30

**BG10@3'**  
**2211147-01 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/08/22 10:40**

| Analyte                   | Result | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|                           |        | Limit     | MDL |          |          |         |          |          |           |       |
| Specific Conductance (EC) | 2.56   | 0.0100    |     | mmhos/cm | 1        | BFK0335 | 11/12/22 | 11/12/22 | EPA 120.1 |       |

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/16/22 11:30

**BG10@6'**  
**2211147-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/08/22 10:45**

| Analyte         | Result       | Reporting |       | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
|                 |              | Limit     | MDL   |           |          |         |          |          |           |       |
| <b>Arsenic</b>  | <b>2.38</b>  | 0.200     |       | mg/kg dry | 1        | BFL0363 | 12/14/22 | 12/15/22 | EPA 6020B |       |
| <b>Barium</b>   | <b>91.1</b>  | 0.400     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Cadmium</b>  | <b>ND</b>    | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Lead</b>     | <b>4.13</b>  | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Selenium</b> | <b>0.391</b> | 0.260     | 0.175 | "         | "        | "       | "        | "        | "         |       |

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

Date Sampled: **11/08/22 10:45**

| Analyte          | Result      | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|                  |             | Limit     | MDL |          |          |         |          |          |           |       |
| <b>Calcium</b>   | <b>35.6</b> | 0.0595    |     | mg/L dry | 1        | BFK0310 | 11/11/22 | 11/13/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>52.1</b> | 0.0595    |     | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>407</b>  | 0.0595    |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/08/22 10:45**

| Analyte                        | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|--------------------------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                                |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>Sodium Adsorption Ratio</b> | <b>10.2</b> | 0.00100   |     | units | 1        | BFK0360 | 11/14/22 | 11/14/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/08/22 10:45**

| Analyte         | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                 |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>% Solids</b> | <b>84.0</b> |           |     | %     | 1        | BFK0325 | 11/12/22 | 11/12/22 | Calculation |       |

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/08/22 10:45**

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

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/16/22 11:30

**BG10@6'**  
**2211147-02 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

|                           |      |        |          |   |         |          |          |           |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|
| Specific Conductance (EC) | 2.07 | 0.0100 | mmhos/cm | 1 | BFK0335 | 11/12/22 | 11/12/22 | EPA 120.1 |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/16/22 11:30

**BG11@3'**  
**2211147-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/08/22 10:50**

| Analyte         | Result       | Reporting |       | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
|                 |              | Limit     | MDL   |           |          |         |          |          |           |       |
| <b>Arsenic</b>  | <b>4.36</b>  | 0.200     |       | mg/kg dry | 1        | BFL0363 | 12/14/22 | 12/15/22 | EPA 6020B |       |
| <b>Barium</b>   | <b>142</b>   | 0.400     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Cadmium</b>  | <b>ND</b>    | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Lead</b>     | <b>5.97</b>  | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Selenium</b> | <b>0.589</b> | 0.260     | 0.175 | "         | "        | "       | "        | "        | "         |       |

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

Date Sampled: **11/08/22 10:50**

| Analyte          | Result      | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|                  |             | Limit     | MDL |          |          |         |          |          |           |       |
| <b>Calcium</b>   | <b>167</b>  | 0.0580    |     | mg/L dry | 1        | BFK0310 | 11/11/22 | 11/13/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>320</b>  | 0.0580    |     | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>1970</b> | 0.0580    |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/08/22 10:50**

| Analyte                        | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|--------------------------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                                |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>Sodium Adsorption Ratio</b> | <b>20.6</b> | 0.00100   |     | units | 1        | BFK0360 | 11/14/22 | 11/14/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/08/22 10:50**

| Analyte         | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                 |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>% Solids</b> | <b>86.2</b> |           |     | %     | 1        | BFK0325 | 11/12/22 | 11/12/22 | Calculation |       |

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/08/22 10:50**

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

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/16/22 11:30

**BG11@3'**  
**2211147-03 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

|                           |      |        |          |   |         |          |          |           |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|
| Specific Conductance (EC) | 9.01 | 0.0100 | mmhos/cm | 1 | BFK0335 | 11/12/22 | 11/12/22 | EPA 120.1 |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/16/22 11:30

**BG11@6'**  
**2211147-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/08/22 10:55**

| Analyte         | Result       | Reporting |       | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
|                 |              | Limit     | MDL   |           |          |         |          |          |           |       |
| <b>Arsenic</b>  | <b>2.36</b>  | 0.200     |       | mg/kg dry | 1        | BFL0363 | 12/14/22 | 12/15/22 | EPA 6020B |       |
| <b>Barium</b>   | <b>75.8</b>  | 0.400     |       | "         | "        | "       | "        | "        | "         |       |
| Cadmium         | ND           | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Lead</b>     | <b>4.93</b>  | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Selenium</b> | <b>0.548</b> | 0.260     | 0.175 | "         | "        | "       | "        | "        | "         |       |

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

Date Sampled: **11/08/22 10:55**

| Analyte          | Result      | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|                  |             | Limit     | MDL |          |          |         |          |          |           |       |
| <b>Calcium</b>   | <b>22.0</b> | 0.0573    |     | mg/L dry | 1        | BFK0310 | 11/11/22 | 11/13/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>16.9</b> | 0.0573    |     | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>242</b>  | 0.0573    |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/08/22 10:55**

| Analyte                        | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|--------------------------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                                |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>Sodium Adsorption Ratio</b> | <b>9.43</b> | 0.00100   |     | units | 1        | BFK0360 | 11/14/22 | 11/14/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/08/22 10:55**

| Analyte         | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                 |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>% Solids</b> | <b>87.2</b> |           |     | %     | 1        | BFK0325 | 11/12/22 | 11/12/22 | Calculation |       |

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/08/22 10:55**

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

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/16/22 11:30

**BG11@6'**  
**2211147-04 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

|                           |      |        |          |   |         |          |          |           |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|
| Specific Conductance (EC) | 1.24 | 0.0100 | mmhos/cm | 1 | BFK0335 | 11/12/22 | 11/12/22 | EPA 120.1 |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/16/22 11:30

**BG12@3'**  
**2211147-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/08/22 11:00**

| Analyte         | Result       | Reporting |       | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
|                 |              | Limit     | MDL   |           |          |         |          |          |           |       |
| <b>Arsenic</b>  | <b>4.10</b>  | 0.200     |       | mg/kg dry | 1        | BFL0363 | 12/14/22 | 12/15/22 | EPA 6020B |       |
| <b>Barium</b>   | <b>171</b>   | 0.400     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Cadmium</b>  | <b>ND</b>    | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Lead</b>     | <b>6.93</b>  | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Selenium</b> | <b>0.736</b> | 0.260     | 0.175 | "         | "        | "       | "        | "        | "         |       |

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

Date Sampled: **11/08/22 11:00**

| Analyte          | Result      | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|                  |             | Limit     | MDL |          |          |         |          |          |           |       |
| <b>Calcium</b>   | <b>391</b>  | 0.0587    |     | mg/L dry | 1        | BFK0310 | 11/11/22 | 11/13/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>306</b>  | 0.0587    |     | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>1860</b> | 0.0587    |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/08/22 11:00**

| Analyte                        | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|--------------------------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                                |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>Sodium Adsorption Ratio</b> | <b>17.1</b> | 0.00100   |     | units | 1        | BFK0360 | 11/14/22 | 11/14/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/08/22 11:00**

| Analyte         | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                 |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>% Solids</b> | <b>85.2</b> |           |     | %     | 1        | BFK0325 | 11/12/22 | 11/12/22 | Calculation |       |

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/08/22 11:00**

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

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/16/22 11:30

**BG12@3'**  
**2211147-05 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

|                           |      |        |          |   |         |          |          |           |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|
| Specific Conductance (EC) | 9.11 | 0.0100 | mmhos/cm | 1 | BFK0335 | 11/12/22 | 11/12/22 | EPA 120.1 |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/16/22 11:30

**BG12@6'**  
**2211147-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/08/22 11:05**

| Analyte         | Result       | Reporting |       | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
|                 |              | Limit     | MDL   |           |          |         |          |          |           |       |
| <b>Arsenic</b>  | <b>2.72</b>  | 0.200     |       | mg/kg dry | 1        | BFL0363 | 12/14/22 | 12/15/22 | EPA 6020B |       |
| <b>Barium</b>   | <b>72.3</b>  | 0.400     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Cadmium</b>  | <b>ND</b>    | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Lead</b>     | <b>4.98</b>  | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Selenium</b> | <b>0.633</b> | 0.260     | 0.175 | "         | "        | "       | "        | "        | "         |       |

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

Date Sampled: **11/08/22 11:05**

| Analyte          | Result     | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|                  |            | Limit     | MDL |          |          |         |          |          |           |       |
| <b>Calcium</b>   | <b>413</b> | 0.0600    |     | mg/L dry | 1        | BFK0310 | 11/11/22 | 11/13/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>125</b> | 0.0600    |     | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>694</b> | 0.0600    |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/08/22 11:05**

| Analyte                        | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|--------------------------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                                |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>Sodium Adsorption Ratio</b> | <b>7.68</b> | 0.00100   |     | units | 1        | BFK0360 | 11/14/22 | 11/14/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/08/22 11:05**

| Analyte         | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                 |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>% Solids</b> | <b>83.4</b> |           |     | %     | 1        | BFK0325 | 11/12/22 | 11/12/22 | Calculation |       |

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/08/22 11:05**

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

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/16/22 11:30

**BG12@6'**  
**2211147-06 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

|                           |      |        |          |   |         |          |          |           |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|
| Specific Conductance (EC) | 4.63 | 0.0100 | mmhos/cm | 1 | BFK0335 | 11/12/22 | 11/12/22 | EPA 120.1 |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/16/22 11:30

**BG13@3'**  
**2211147-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/08/22 11:10**

| Analyte         | Result       | Reporting |       | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
|                 |              | Limit     | MDL   |           |          |         |          |          |           |       |
| <b>Arsenic</b>  | <b>1.66</b>  | 0.200     |       | mg/kg dry | 1        | BFL0363 | 12/14/22 | 12/15/22 | EPA 6020B |       |
| <b>Barium</b>   | <b>35.3</b>  | 0.400     |       | "         | "        | "       | "        | "        | "         |       |
| Cadmium         | ND           | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Lead</b>     | <b>3.79</b>  | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Selenium</b> | <b>0.552</b> | 0.260     | 0.175 | "         | "        | "       | "        | "        | "         |       |

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

Date Sampled: **11/08/22 11:10**

| Analyte          | Result      | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|                  |             | Limit     | MDL |          |          |         |          |          |           |       |
| <b>Calcium</b>   | <b>147</b>  | 0.0537    |     | mg/L dry | 1        | BFK0310 | 11/11/22 | 11/13/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>214</b>  | 0.0537    |     | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>2200</b> | 0.0537    |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/08/22 11:10**

| Analyte                        | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|--------------------------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                                |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>Sodium Adsorption Ratio</b> | <b>27.1</b> | 0.00100   |     | units | 1        | BFK0360 | 11/14/22 | 11/14/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/08/22 11:10**

| Analyte         | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                 |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>% Solids</b> | <b>93.1</b> |           |     | %     | 1        | BFK0325 | 11/12/22 | 11/12/22 | Calculation |       |

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/08/22 11:10**

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

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/16/22 11:30

**BG13@3'**  
**2211147-07 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

|                           |      |        |          |   |         |          |          |           |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|
| Specific Conductance (EC) | 10.4 | 0.0100 | mmhos/cm | 1 | BFK0335 | 11/12/22 | 11/12/22 | EPA 120.1 |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/16/22 11:30

**BG13@6'**  
**2211147-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/08/22 11:15**

| Analyte         | Result       | Reporting |       | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
|                 |              | Limit     | MDL   |           |          |         |          |          |           |       |
| <b>Arsenic</b>  | <b>2.59</b>  | 0.200     |       | mg/kg dry | 1        | BFL0363 | 12/14/22 | 12/15/22 | EPA 6020B |       |
| <b>Barium</b>   | <b>143</b>   | 0.400     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Cadmium</b>  | <b>ND</b>    | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Lead</b>     | <b>5.38</b>  | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Selenium</b> | <b>0.517</b> | 0.260     | 0.175 | "         | "        | "       | "        | "        | "         |       |

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

Date Sampled: **11/08/22 11:15**

| Analyte          | Result      | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|                  |             | Limit     | MDL |          |          |         |          |          |           |       |
| <b>Calcium</b>   | <b>56.3</b> | 0.0597    |     | mg/L dry | 1        | BFK0310 | 11/11/22 | 11/13/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>47.5</b> | 0.0597    |     | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>865</b>  | 0.0597    |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/08/22 11:15**

| Analyte                        | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|--------------------------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                                |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>Sodium Adsorption Ratio</b> | <b>20.5</b> | 0.00100   |     | units | 1        | BFK0360 | 11/14/22 | 11/14/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/08/22 11:15**

| Analyte         | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                 |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>% Solids</b> | <b>83.8</b> |           |     | %     | 1        | BFK0325 | 11/12/22 | 11/12/22 | Calculation |       |

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/08/22 11:15**

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

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/16/22 11:30

**BG13@6'**  
**2211147-08 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

---

|                           |      |        |          |   |         |          |          |           |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|
| Specific Conductance (EC) | 3.86 | 0.0100 | mmhos/cm | 1 | BFK0335 | 11/12/22 | 11/12/22 | EPA 120.1 |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/16/22 11:30

**BG14@3'**  
**2211147-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/08/22 11:20**

| Analyte         | Result       | Reporting |       | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
|                 |              | Limit     | MDL   |           |          |         |          |          |           |       |
| <b>Arsenic</b>  | <b>1.70</b>  | 0.200     |       | mg/kg dry | 1        | BFL0363 | 12/14/22 | 12/15/22 | EPA 6020B |       |
| <b>Barium</b>   | <b>79.6</b>  | 0.400     |       | "         | "        | "       | "        | "        | "         |       |
| Cadmium         | ND           | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Lead</b>     | <b>4.17</b>  | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Selenium</b> | <b>0.421</b> | 0.260     | 0.175 | "         | "        | "       | "        | "        | "         |       |

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

Date Sampled: **11/08/22 11:20**

| Analyte          | Result      | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|                  |             | Limit     | MDL |          |          |         |          |          |           |       |
| <b>Calcium</b>   | <b>69.0</b> | 0.0557    |     | mg/L dry | 1        | BFK0310 | 11/11/22 | 11/13/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>169</b>  | 0.0557    |     | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>2630</b> | 0.0557    |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/08/22 11:20**

| Analyte                        | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|--------------------------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                                |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>Sodium Adsorption Ratio</b> | <b>38.8</b> | 0.00100   |     | units | 1        | BFK0360 | 11/14/22 | 11/14/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/08/22 11:20**

| Analyte         | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                 |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>% Solids</b> | <b>89.7</b> |           |     | %     | 1        | BFK0325 | 11/12/22 | 11/12/22 | Calculation |       |

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/08/22 11:20**

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

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/16/22 11:30

**BG14@3'**  
**2211147-09 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

|                           |      |        |          |   |         |          |          |           |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|
| Specific Conductance (EC) | 10.4 | 0.0100 | mmhos/cm | 1 | BFK0335 | 11/12/22 | 11/12/22 | EPA 120.1 |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/16/22 11:30

**BG14@6'**  
**2211147-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/08/22 11:25**

| Analyte         | Result       | Reporting |       | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
|                 |              | Limit     | MDL   |           |          |         |          |          |           |       |
| <b>Arsenic</b>  | <b>1.86</b>  | 0.200     |       | mg/kg dry | 1        | BFL0363 | 12/14/22 | 12/15/22 | EPA 6020B |       |
| <b>Barium</b>   | <b>51.4</b>  | 0.400     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Cadmium</b>  | <b>ND</b>    | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Lead</b>     | <b>4.19</b>  | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Selenium</b> | <b>0.599</b> | 0.260     | 0.175 | "         | "        | "       | "        | "        | "         |       |

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

Date Sampled: **11/08/22 11:25**

| Analyte          | Result      | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|                  |             | Limit     | MDL |          |          |         |          |          |           |       |
| <b>Calcium</b>   | <b>137</b>  | 0.0573    |     | mg/L dry | 1        | BFK0310 | 11/11/22 | 11/13/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>192</b>  | 0.0573    |     | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>2310</b> | 0.0573    |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/08/22 11:25**

| Analyte                        | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|--------------------------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                                |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>Sodium Adsorption Ratio</b> | <b>29.9</b> | 0.00100   |     | units | 1        | BFK0360 | 11/14/22 | 11/14/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/08/22 11:25**

| Analyte         | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                 |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>% Solids</b> | <b>87.3</b> |           |     | %     | 1        | BFK0325 | 11/12/22 | 11/12/22 | Calculation |       |

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/08/22 11:25**

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

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/16/22 11:30

**BG14@6'**  
**2211147-10 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

|                           |      |        |          |   |         |          |          |           |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|
| Specific Conductance (EC) | 9.79 | 0.0100 | mmhos/cm | 1 | BFK0335 | 11/12/22 | 11/12/22 | EPA 120.1 |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/16/22 11:30

**BG15@3'**  
**2211147-11 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/08/22 11:30**

| Analyte         | Result       | Reporting |       | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
|                 |              | Limit     | MDL   |           |          |         |          |          |           |       |
| <b>Arsenic</b>  | <b>2.19</b>  | 0.200     |       | mg/kg dry | 1        | BFL0363 | 12/14/22 | 12/15/22 | EPA 6020B |       |
| <b>Barium</b>   | <b>42.8</b>  | 0.400     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Cadmium</b>  | <b>ND</b>    | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Lead</b>     | <b>3.71</b>  | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Selenium</b> | <b>0.500</b> | 0.260     | 0.175 | "         | "        | "       | "        | "        | "         |       |

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

Date Sampled: **11/08/22 11:30**

| Analyte          | Result      | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|                  |             | Limit     | MDL |          |          |         |          |          |           |       |
| <b>Calcium</b>   | <b>245</b>  | 0.0546    |     | mg/L dry | 1        | BFK0310 | 11/11/22 | 11/13/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>708</b>  | 0.0546    |     | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>4570</b> | 0.0546    |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/08/22 11:30**

| Analyte                        | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|--------------------------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                                |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>Sodium Adsorption Ratio</b> | <b>33.5</b> | 0.00100   |     | units | 1        | BFK0360 | 11/14/22 | 11/14/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/08/22 11:30**

| Analyte         | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                 |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>% Solids</b> | <b>91.5</b> |           |     | %     | 1        | BFK0325 | 11/12/22 | 11/12/22 | Calculation |       |

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/08/22 11:30**

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

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/16/22 11:30

**BG15@3'**  
**2211147-11 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

---

|                           |      |        |          |   |         |          |          |           |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|
| Specific Conductance (EC) | 18.9 | 0.0100 | mmhos/cm | 1 | BFK0335 | 11/12/22 | 11/12/22 | EPA 120.1 |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/16/22 11:30

**BG15@6'**  
**2211147-12 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/08/22 11:35**

| Analyte         | Result       | Reporting |       | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
|                 |              | Limit     | MDL   |           |          |         |          |          |           |       |
| <b>Arsenic</b>  | <b>3.74</b>  | 0.200     |       | mg/kg dry | 1        | BFL0363 | 12/14/22 | 12/15/22 | EPA 6020B |       |
| <b>Barium</b>   | <b>106</b>   | 0.400     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Cadmium</b>  | <b>ND</b>    | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Lead</b>     | <b>5.57</b>  | 0.200     |       | "         | "        | "       | "        | "        | "         |       |
| <b>Selenium</b> | <b>0.613</b> | 0.260     | 0.175 | "         | "        | "       | "        | "        | "         |       |

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

Date Sampled: **11/08/22 11:35**

| Analyte          | Result      | Reporting |     | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------|-----|----------|----------|---------|----------|----------|-----------|-------|
|                  |             | Limit     | MDL |          |          |         |          |          |           |       |
| <b>Calcium</b>   | <b>150</b>  | 0.0578    |     | mg/L dry | 1        | BFK0310 | 11/11/22 | 11/13/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>406</b>  | 0.0578    |     | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>3600</b> | 0.0578    |     | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **11/08/22 11:35**

| Analyte                        | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|--------------------------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                                |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>Sodium Adsorption Ratio</b> | <b>34.6</b> | 0.00100   |     | units | 1        | BFK0360 | 11/14/22 | 11/14/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/08/22 11:35**

| Analyte         | Result      | Reporting |     | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
|                 |             | Limit     | MDL |       |          |         |          |          |             |       |
| <b>% Solids</b> | <b>86.5</b> |           |     | %     | 1        | BFK0325 | 11/12/22 | 11/12/22 | Calculation |       |

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **11/08/22 11:35**

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

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
 Project Manager: Jacob Whritenour

**Reported:**  
 12/16/22 11:30

**BG15@6'**  
**2211147-12 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

|                           |      |        |          |   |         |          |          |           |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|
| Specific Conductance (EC) | 14.3 | 0.0100 | mmhos/cm | 1 | BFK0335 | 11/12/22 | 11/12/22 | EPA 120.1 |
|---------------------------|------|--------|----------|---|---------|----------|----------|-----------|

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 - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/16/22 11:30

### Total Metals by EPA 6020B - Quality Control

#### Summit Scientific

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

#### Batch BFL0363 - EPA 3050B

##### Blank (BFL0363-BLK1)

Prepared: 12/14/22 Analyzed: 12/15/22

|          |    |       |           |  |  |  |  |  |  |  |
|----------|----|-------|-----------|--|--|--|--|--|--|--|
| Arsenic  | ND | 0.200 | mg/kg wet |  |  |  |  |  |  |  |
| Barium   | ND | 0.400 | "         |  |  |  |  |  |  |  |
| Cadmium  | ND | 0.200 | "         |  |  |  |  |  |  |  |
| Lead     | ND | 0.200 | "         |  |  |  |  |  |  |  |
| Selenium | ND | 0.260 | "         |  |  |  |  |  |  |  |

##### LCS (BFL0363-BS1)

Prepared: 12/14/22 Analyzed: 12/15/22

|          |      |       |           |      |  |      |        |  |  |  |
|----------|------|-------|-----------|------|--|------|--------|--|--|--|
| Arsenic  | 40.0 | 0.200 | mg/kg wet | 40.0 |  | 100  | 80-120 |  |  |  |
| Barium   | 43.9 | 0.400 | "         | 40.0 |  | 110  | 80-120 |  |  |  |
| Cadmium  | 2.33 | 0.200 | "         | 2.00 |  | 117  | 80-120 |  |  |  |
| Lead     | 21.8 | 0.200 | "         | 20.0 |  | 109  | 80-120 |  |  |  |
| Selenium | 3.71 | 0.260 | "         | 4.00 |  | 92.6 | 80-120 |  |  |  |

##### Duplicate (BFL0363-DUP1)

Source: 2211147-01

Prepared: 12/14/22 Analyzed: 12/15/22

|          |       |       |           |       |  |  |  |      |    |  |
|----------|-------|-------|-----------|-------|--|--|--|------|----|--|
| Arsenic  | 2.59  | 0.200 | mg/kg dry | 2.50  |  |  |  | 3.77 | 20 |  |
| Barium   | 85.9  | 0.400 | "         | 84.3  |  |  |  | 1.92 | 20 |  |
| Cadmium  | 0.162 | 0.200 | "         | 0.176 |  |  |  | 8.22 | 20 |  |
| Lead     | 5.27  | 0.200 | "         | 5.74  |  |  |  | 8.51 | 20 |  |
| Selenium | 0.477 | 0.260 | "         | 0.549 |  |  |  | 14.1 | 20 |  |

##### Matrix Spike (BFL0363-MS1)

Source: 2211147-01

Prepared: 12/14/22 Analyzed: 12/15/22

|          |      |       |           |      |       |      |        |  |  |       |
|----------|------|-------|-----------|------|-------|------|--------|--|--|-------|
| Arsenic  | 48.8 | 0.200 | mg/kg dry | 46.0 | 2.50  | 101  | 75-125 |  |  |       |
| Barium   | 184  | 0.400 | "         | 46.0 | 84.3  | 218  | 75-125 |  |  | QM-02 |
| Cadmium  | 2.92 | 0.200 | "         | 2.30 | 0.176 | 119  | 75-125 |  |  |       |
| Lead     | 30.0 | 0.200 | "         | 23.0 | 5.74  | 106  | 75-125 |  |  |       |
| Selenium | 4.08 | 0.260 | "         | 4.60 | 0.549 | 76.8 | 75-125 |  |  |       |

##### Matrix Spike Dup (BFL0363-MSD1)

Source: 2211147-01

Prepared: 12/14/22 Analyzed: 12/15/22

|          |      |       |           |      |       |      |        |      |    |       |
|----------|------|-------|-----------|------|-------|------|--------|------|----|-------|
| Arsenic  | 49.9 | 0.200 | mg/kg dry | 46.0 | 2.50  | 103  | 75-125 | 2.09 | 25 |       |
| Barium   | 147  | 0.400 | "         | 46.0 | 84.3  | 137  | 75-125 | 22.3 | 25 | QM-02 |
| Cadmium  | 2.53 | 0.200 | "         | 2.30 | 0.176 | 102  | 75-125 | 14.3 | 25 |       |
| Lead     | 26.3 | 0.200 | "         | 23.0 | 5.74  | 89.3 | 75-125 | 13.3 | 25 |       |
| Selenium | 4.76 | 0.260 | "         | 4.60 | 0.549 | 91.6 | 75-125 | 15.4 | 25 |       |

Summit Scientific

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



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

Project: Noble - Cody White D3-2, D3-1, Gutttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/16/22 11:30

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

**Summit Scientific**

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

**Batch BFK0310 - General Preparation**

**Blank (BFK0310-BLK1)**

Prepared: 11/11/22 Analyzed: 11/13/22

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

**LCS (BFK0310-BS1)**

Prepared: 11/11/22 Analyzed: 11/13/22

|           |      |        |          |      |      |        |  |  |  |  |
|-----------|------|--------|----------|------|------|--------|--|--|--|--|
| Calcium   | 4.56 | 0.0500 | mg/L wet | 5.00 | 91.2 | 70-130 |  |  |  |  |
| Magnesium | 4.91 | 0.0500 | "        | 5.00 | 98.2 | 70-130 |  |  |  |  |
| Sodium    | 5.12 | 0.0500 | "        | 5.00 | 102  | 70-130 |  |  |  |  |

Summit Scientific

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



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

Project: Noble - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/16/22 11:30

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

**Summit Scientific**

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

**Batch BFK0325 - General Preparation**

**Duplicate (BFK0325-DUP1)**

**Source: 2210524-02**

**Prepared & Analyzed: 11/12/22**

|          |      |   |  |      |  |       |    |
|----------|------|---|--|------|--|-------|----|
| % Solids | 82.4 | % |  | 81.9 |  | 0.595 | 20 |
|----------|------|---|--|------|--|-------|----|

Summit Scientific

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



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

Project: Noble - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/16/22 11:30

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013 - Quality Control**  
**Summit Scientific**

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

**Batch BFK0335 - General Preparation**

**Blank (BFK0335-BLK1)**

Prepared & Analyzed: 11/12/22

Specific Conductance (EC)                      ND                      0.0100    mmhos/cm

**LCS (BFK0335-BS1)**

Prepared & Analyzed: 11/12/22

Specific Conductance (EC)                      0.153                      0.0100    mmhos/cm                      0.150                      102                      95-105

**Duplicate (BFK0335-DUP1)**

**Source: 2211147-01**

Prepared & Analyzed: 11/12/22

Specific Conductance (EC)                      2.52                      0.0100    mmhos/cm                      2.56                      1.18                      20

Summit Scientific

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





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

Project: Noble - Cody White D3-2, D3-1, Guttersen D3-17 FL

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
12/16/22 11:30

### Notes and Definitions

- QM-02 The RPD and/or percent recovery for this QC sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
- 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