

TABLE 1
FORMER BOOTH 7-26 WELLHEAD
SOIL ANALYTICAL RESULTS SUMMARY TABLE

| Sample ID | Date Sampled | Depth | 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 ⁽⁴⁾ (mg/kg) |
|---|--------------|-------------|--------------------|--------------------|-------------------------|-----------------------------|------------------------|------------------------|------------------------|-------------------------------|
| Residential SSL ^(1,2) | | | 1.2 | 490 | 5.8 | 58 | 30 | 27 | 2 | 500 |
| Protection of Groundwater SSL ^(1,2,3) | | | 0.0026 | 0.69 | 0.78 | 9.9 | 0.0081 | 0.0087 | 0.0038 | 500 |
| WH01 @ 6' | 6/30/2021 | 6 ft. bgs | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <50 |
| FLR01-B @ 7' | 6/30/2021 | 7 ft. bgs | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <50 |
| FLR01-S @ 3' | 6/30/2021 | 3 ft. bgs | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <50 |
| SB01 @ 7-8' | 06/02/2022 | 7-8 ft. bgs | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <50 |
| SB02 @ 3-4' | 06/02/2022 | 3-4 ft. bgs | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <50 |
| SB03 @ 3-4' | 06/02/2022 | 3-4 ft. bgs | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <50 |
| SB04 @ 3-4' | 06/02/2022 | 3-4 ft. bgs | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <50 |
| SB05 @ 3-4' | 06/02/2022 | 3-4 ft. bgs | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <50 |

Notes:

1. Compounds referenced from the COGCC 2 CCR 404-1, Table 915-1, effective January 15, 2021.
2. Soil Screening Levels (SSL) referenced from EPA Regional Screening Levels (EPA RSLs) for Chemical Contaminants at Superfund Sites, effective November 2020.
3. SSLs are applicable if a pathway for communication with groundwater is present.
4. Value calculated by adding TVPH-GRO, TEPH-DRO, and TEPH-ORO concentrations.

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit.

TVPH-GRO = Total volatile petroleum hydrocarbons - gasoline range organics

TEPH-DRO = Total extractable petroleum hydrocarbons - diesel range organics

TEPH-ORO = Total extractable petroleum hydrocarbons - oil range organics

mg/kg = Milligrams per kilogram

TMB = Trimethylbenzene

ft. = Feet

bgs = Below ground surface

TABLE 2
FORMER BOOTH 7-26 WELLHEAD
SOIL ANALYTICAL RESULTS SUMMARY TABLE
INORGANIC COMPOUNDS

| Sample ID | Date Sampled | Depth | pH (units) | EC (mmhos/cm) | SAR (units) | Boron (mg/L) |
|---|--------------|-------------|---------------|------------------|----------------|-----------------|
| Soil Suitability for Reclamation Standard ⁽¹⁾ | | | 6-8.3 | <4 | <6 | 2 |
| FLR01 @ 2.5' | 6/30/2021 | 2.5 ft. bgs | 8.31 | 0.389 | 0.868 | 0.102 |
| SB01 @ 7-8' | 6/2/2022 | 7-8 ft. bgs | 8.59 | 0.422 | 0.414 | 0.113 |
| SB02 @ 3-4' | 6/2/2022 | 3-4 ft. bgs | 8.48 | 0.468 | 0.403 | 0.121 |
| SB03 @ 3-4' | 6/2/2022 | 3-4 ft. bgs | 8.49 | 0.564 | 0.545 | 0.136 |
| SB04 @ 3-4' | 6/2/2022 | 3-4 ft. bgs | 8.64 | 0.471 | 0.291 | 0.103 |
| SB05 @ 3-4' | 6/2/2022 | 3-4 ft. bgs | 8.65 | 0.401 | 0.141 | 0.120 |
| BKG01 @ 2.5' ⁽²⁾ | 6/30/2021 | 2.5 ft. bgs | 8.58 | NA | NA | NA |

Notes:

- Compounds referenced from the COGCC 2 CCR 404-1, Table 915-1, effective January 15, 2021.
- Background soil sample submitted as representative native material for this location and the adjacent Booth 25-26 Wellhead.

COGCC = Colorado Oil and Gas Conservation Commission

EC = Electrical conductivity

SAR = Sodium adsorption ratio

mmhos/cm = millimhos per centimeter

mg/L = milligram per liter

ft. = Feet

bgs = Below ground surface

BOLD = Analytical result is in exceedance of applicable standard.

BOLD = Analytical result is in exceedance of applicable standard, but below background concentration.

NA = Constituent not analyzed

TABLE 3
FORMER BOOTH 7-26 WELLHEAD
SOIL ANALYTICAL RESULTS SUMMARY TABLE
ORGANIC COMPOUNDS - PAHs

| Sample ID | Date Sampled | Depth | 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 ^(1,2) | | | 360 | 1,800 | 1.1 | 0.11 | 1.1 | 11 | 110 | 0.11 | 240 | 240 | 1.1 | 180 | 18 | 24 |
| Protection of Groundwater SSL ^(1,2,3) | | | 0.55 | 5.8 | 0.011 | 0.24 | 0.3 | 2.9 | 9 | 0.096 | 8.9 | 0.54 | 0.98 | 1.3 | 0.006 | 0.019 |
| SB01 @ 7-8' | 6/2/2022 | 7-8 ft. bgs | <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 |
| SB02 @ 3-4' | 6/2/2022 | 3-4 ft. bgs | <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 |
| SB03 @ 3-4' | 6/2/2022 | 3-4 ft. bgs | <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 |
| SB04 @ 3-4' | 6/2/2022 | 3-4 ft. bgs | <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 |
| SB05 @ 3-4' | 6/2/2022 | 3-4 ft. bgs | <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 |

Notes:

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

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit.

PAHs = Polycyclic aromatic hydrocarbons

Benz(a) = Benzanthracene

Benzo(a) = Benzopyrene

Benzo(b) = Benzofluoranthene

Benzo(k) = Benzofluoranthene

A,H = Dibenzoanthracene

1,2,3-CD = Indenopyrene

M = Methylnaphthalene

mg/kg = Milligrams per kilogram

ft. = Feet

bgs = Below ground surface

TABLE 4
FORMER BOOTH 7-26 WELLHEAD
SOIL ANALYTICAL RESULTS SUMMARY TABLE
METALS

| Sample ID | Date Sampled | Depth | 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 ^(1,2) | | | 0.68 | 15,000 | 71 | 0.3 | 3,100 | 400 | 1,500 | 390 | 390 | 23,000 |
| Protection of Groundwater SSL ^(1,2,3) | | | 0.29 | 82 | 0.38 | 0.00067 | 46 | 14 | 26 | 0.26 | 0.8 | 370 |
| SB01 @ 7-8' | 6/2/2022 | 7-8 ft. bgs | 3.37 | 94.2 | <0.236 | <0.30 ⁽⁴⁾ | 7.99 | 5.32 | 9.18 | 0.530 | 0.0314 | 27.8 |
| SB02 @ 3-4' | 6/2/2022 | 3-4 ft. bgs | 2.87 | 120 | <0.237 | <0.30 ⁽⁴⁾ | 6.00 | 4.97 | 6.80 | 0.567 | 0.0327 | 22.7 |
| SB03 @ 3-4' | 6/2/2022 | 3-4 ft. bgs | 2.89 | 144 | <0.237 | <0.30 ⁽⁴⁾ | 7.39 | 6.25 | 7.97 | 0.647 | 0.0417 | 28.2 |
| SB04 @ 3-4' | 6/2/2022 | 3-4 ft. bgs | 2.36 | 75.4 | <0.231 | <0.30 ⁽⁴⁾ | 5.49 | 4.28 | 6.96 | 0.520 | <0.0231 | 22.3 |
| SB05 @ 3-4' | 6/2/2022 | 3-4 ft. bgs | 4.22 | 151 | 0.262 | <0.30 ⁽⁴⁾ | 7.87 | 5.42 | 10.3 | 0.537 | 0.0543 | 25.0 |
| BKG02 @ 3-4' | 6/2/2022 | 3-4 ft. bgs | 2.46 | 289 | <0.220 | <0.30 ⁽⁴⁾ | 4.34 | 4.70 | 5.34 | 0.590 | 0.0276 | 20.7 |
| BKG02 @ 7-8' | 6/2/2022 | 7-8 ft. bgs | 2.18 | 37.7 | <0.232 | <0.30 ⁽⁴⁾ | 4.36 | 4.20 | 5.95 | 0.381 | <0.0232 | 18.6 |
| BKG03 @ 3-4' | 6/2/2022 | 3-4 ft. bgs | 2.10 | 28.6 | <0.218 | <0.30 ⁽⁴⁾ | 3.62 | 3.96 | 4.87 | 0.435 | <0.0218 | 17.2 |
| BKG03 @ 7-8' | 6/2/2022 | 7-8 ft. bgs | 2.99 | 34.3 | <0.223 | <0.30 ⁽⁴⁾ | 5.03 | 3.55 | 5.60 | 0.470 | <0.0223 | 17.3 |
| BKG04 @ 3-4' | 6/2/2022 | 3-4 ft. bgs | 2.14 | 32.6 | <0.223 | <0.30 ⁽⁴⁾ | 4.27 | 4.37 | 5.29 | 0.476 | 0.0228 | 20.0 |
| BKG04 @ 7-8' | 6/2/2022 | 7-8 ft. bgs | 2.35 | 45.9 | <0.229 | <0.30 ⁽⁴⁾ | 4.68 | 4.60 | 5.13 | 0.398 | <0.0229 | 20.4 |
| BKG05 @ 3-4' | 6/2/2022 | 3-4 ft. bgs | 2.48 | 84.6 | <0.223 | <0.30 ⁽⁴⁾ | 4.57 | 5.21 | 6.43 | 0.547 | 0.0224 | 21.3 |
| BKG05 @ 7-8' | 6/2/2022 | 7-8 ft. bgs | 3.18 | 83.0 | <0.237 | <0.30 ⁽⁴⁾ | 3.72 | 5.34 | 5.45 | 0.673 | <0.0237 | 33.0 |
| BKG06 @ 3-4' | 6/2/2022 | 3-4 ft. bgs | 2.00 | 56.3 | <0.222 | <0.30 ⁽⁴⁾ | 3.89 | 3.88 | 4.56 | 0.419 | <0.0222 | 17.1 |
| BKG06 @ 7-8' | 6/2/2022 | 7-8 ft. bgs | 2.67 | 27.6 | <0.248 | <0.30 ⁽⁴⁾ | 4.30 | 6.12 | 5.26 | 0.722 | <0.0248 | 46.1 |
| BKG07 @ 3-4' | 3/30/2023 | 3-4 ft. bgs | 2.08 | 46.0 | NA | NA | NA | NA | NA | <0.175 ⁽⁵⁾ | NA | NA |
| BKG07 @ 7-8' | 3/30/2023 | 7-8 ft. bgs | 2.14 | 275 | NA | NA | NA | NA | NA | <0.175 ⁽⁵⁾ | NA | NA |
| BKG08 @ 3-4' | 3/30/2023 | 3-4 ft. bgs | 4.09 | 147 | NA | NA | NA | NA | NA | 0.226 ⁽⁷⁾ | NA | NA |
| BKG08 @ 7-8' | 3/30/2023 | 7-8 ft. bgs | 2.09 | 21.0 | NA | NA | NA | NA | NA | <0.175 ⁽⁵⁾ | NA | NA |
| BKG09 @ 3-4' | 3/30/2023 | 3-4 ft. bgs | 2.58 | 70.2 | NA | NA | NA | NA | NA | <0.175 ⁽⁵⁾ | NA | NA |
| BKG09 @ 7-8' | 3/30/2023 | 7-8 ft. bgs | 2.29 | 47.1 | NA | NA | NA | NA | NA | <0.175 ⁽⁵⁾ | NA | NA |
| BKG10 @ 3-4' | 3/30/2023 | 3-4 ft. bgs | 3.80 | 113 | NA | NA | NA | NA | NA | <0.175 ⁽⁵⁾ | NA | NA |
| BKG10 @ 7-8' | 3/30/2023 | 7-8 ft. bgs | 2.32 | 158 | NA | NA | NA | NA | NA | <0.175 ⁽⁵⁾ | NA | NA |
| BKG11 @ 3-4' | 3/30/2023 | 3-4 ft. bgs | 2.22 | 62.6 | NA | NA | NA | NA | NA | <0.175 ⁽⁵⁾ | NA | NA |
| BKG11 @ 7-8' | 3/30/2023 | 7-8 ft. bgs | 2.86 | 105 | NA | NA | NA | NA | NA | <0.175 ⁽⁵⁾ | NA | NA |
| Mean Background Concentration ⁽⁶⁾ | | | 2.55 | 88.2 | 0.228 | 0.30 | 4.28 | 4.59 | 5.39 | 0.346 | 0.0234 | 23.2 |
| 1.25x Mean Background Concentration | | | 3.19 | 110 | 0.285 | 0.38 | 5.35 | 5.74 | 6.74 | 0.433 | 0.0293 | 29.0 |

Notes:

- Compounds referenced from the COGCC 2 CCR 404-1, Table 915-1, effective January 15, 2021.
- Soil Screening Levels (SSL) referenced from EPA Regional Screening Levels (EPA RSLs) for Chemical Contaminants at Superfund Sites, effective November 2020.
- SSLs are applicable if a pathway for communication with groundwater is present.
- Compound falls within COGCC Table 915-1 Footnote 9.
- Non-detect value reflects the method detection limit (MDL) provided in the laboratory report.
- Non-detect background results accounted for in the mean background concentration by using the reporting limit.
- Concentration detected but below the Reporting Limit; therefore, result is an estimated concentration.

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit.

mg/kg = Milligrams per kilogram

ft. = Feet

bgs = Below ground surface

BOLD = Analytical result is in exceedance of applicable standard.

BOLD = Analytical result is in exceedance of applicable standard, but within 1.25x background concentration.

Metals Evaluation:

Arsenic:

The mean arsenic concentration observed in background soil samples is 2.55 mg/kg. 1.25x the mean arsenic concentration is 3.19 mg/kg (1.25x 2.55 mg/kg is 3.19 mg/kg). Two soil samples from soil borings SB01-SB05 are above the 1.25x mean background soil sample concentration.

Barium:

The mean barium concentration observed in background soil samples is 88.2 mg/kg. 1.25x the mean barium concentration is 110 mg/kg (1.25x 88.2 mg/kg = 110 mg/kg). Three of the five soil samples collected from soil borings SB01-SB05 are above 1.25x the mean native barium concentration.

Selenium:

The mean selenium concentration observed in background soil samples is 0.346 mg/kg. 1.25x the mean selenium concentration is 0.433 mg/kg (1.25x 0.346 mg/kg = 0.433 mg/kg). All five soil samples collected from soil borings SB01-SB05 are above 1.25x the mean native selenium concentration.

TABLE 5
FORMER BOOTH 7-26 WELLHEAD
FIELD DATA SUMMARY TABLE

| Sample ID | Date Sampled | Depth | GPS Data ⁽¹⁾ Latitude / Longitude | | PDOP Value | VOC Concentration ⁽²⁾ (ppm) |
|-----------------------------|--------------|-------------|---|--------------|------------|--|
| WH01 @ 6' | 6/30/2021 | 6 ft. bgs | 40.551493 | -104.628959 | 1.1 | 3.4 |
| FLR01 @ 2.5' | 6/30/2021 | 2.5 ft. bgs | 40.551500 | -104.628954 | 1.1 | 0.3 |
| FLR01-B @ 7' | 6/30/2021 | 7 ft. bgs | 40.551501 | -104.628941 | 1.0 | 3.6 |
| WHS01-N @ 0-6" | 6/30/2021 | 0-6 in. bgs | 40.551504 | -104.628933 | 1.1 | 0.0 |
| WHS01-E @ 0-6" | 6/30/2021 | 0-6 in. bgs | 40.551475 | -104.628904 | 1.1 | 0.0 |
| WHS01-W @ 0-6" | 6/30/2021 | 0-6 in. bgs | 40.551523 | -104.628989 | 1.1 | 0.1 |
| FL01-01 @ 4' | 6/30/2021 | 4 ft. bgs | 40.552747 | -104.629592 | 1.1 | 0.0 |
| FLR01-N @ 3' | 6/30/2021 | 3 ft. bgs | 40.551506 | -104.628943 | 1.1 | 0.0 |
| FLR01-E @ 3' | 6/30/2021 | 3 ft. bgs | 40.551474 | -104.628936 | 1.0 | 0.2 |
| FLR01-S @ 3' | 6/30/2021 | 3 ft. bgs | 40.551463 | -104.628982 | 1.1 | 0.3 |
| FLR01-W @ 3' | 6/30/2021 | 3 ft. bgs | 40.551501 | -104.628981 | 1.1 | 0.0 |
| SB01 @ 7-8' | 6/2/2022 | 7-8 ft. bgs | 40.551494 | -104.6289462 | NC | 0.0 |
| SB02 @ 3-4' | 6/2/2022 | 3-4 ft. bgs | 40.551510 | -104.628946 | NC | 0.1 |
| SB03 @ 3-4' | 6/2/2022 | 3-4 ft. bgs | 40.551492 | -104.628984 | NC | 0.0 |
| SB04 @ 3-4' | 6/2/2022 | 3-4 ft. bgs | 40.551467 | -104.628956 | NC | 0.0 |
| SB05 @ 3-4' | 6/2/2022 | 3-4 ft. bgs | 40.551482 | -104.628918 | NC | 0.0 |
| BKG01 @ 2.5' ⁽³⁾ | 6/30/2021 | 2.5 ft. bgs | 40.551342 | -104.629175 | 1.1 | 0.1 |
| BKG02 @ 3-4' | 6/2/2022 | 3-4 ft. bgs | 40.551507 | -104.629218 | NC | 0.0 |
| BKG02 @ 7-8' | 6/2/2022 | 7-8 ft. bgs | 40.551507 | -104.629218 | NC | 0.0 |
| BKG03 @ 3-4' | 6/2/2022 | 3-4 ft. bgs | 40.551450 | -104.629214 | NC | 0.0 |
| BKG03 @ 7-8' | 6/2/2022 | 7-8 ft. bgs | 40.551450 | -104.629214 | NC | 0.0 |
| BKG04 @ 3-4' | 6/2/2022 | 3-4 ft. bgs | 40.551408 | -104.629158 | NC | 0.0 |
| BKG04 @ 7-8' | 6/2/2022 | 7-8 ft. bgs | 40.551408 | -104.629158 | NC | 0.0 |
| BKG05 @ 3-4' | 6/2/2022 | 3-4 ft. bgs | 40.551364 | -104.629213 | NC | 0.0 |
| BKG05 @ 7-8' | 6/2/2022 | 7-8 ft. bgs | 40.551364 | -104.629213 | NC | 0.0 |
| BKG06 @ 3-4' | 6/2/2022 | 3-4 ft. bgs | 40.551363 | -104.629130 | NC | 0.0 |
| BKG06 @ 7-8' | 6/2/2022 | 7-8 ft. bgs | 40.551363 | -104.629130 | NC | 0.0 |
| BKG07 @ 3-4' | 3/30/2023 | 3-4 ft. bgs | 40.551680 | -104.629480 | NC | 0.1 |
| BKG07 @ 7-8' | 3/30/2023 | 7-8 ft. bgs | 40.551680 | -104.629480 | NC | 0.0 |
| BKG08 @ 3-4' | 3/30/2023 | 3-4 ft. bgs | 40.551457 | -104.629481 | NC | 0.0 |
| BKG08 @ 7-8' | 3/30/2023 | 7-8 ft. bgs | 40.551457 | -104.629481 | NC | 0.1 |
| BKG09 @ 3-4' | 3/30/2023 | 3-4 ft. bgs | 40.551263 | -104.629482 | NC | 0.1 |
| BKG09 @ 7-8' | 3/30/2023 | 7-8 ft. bgs | 40.551263 | -104.629482 | NC | 0.0 |
| BKG10 @ 3-4' | 3/30/2023 | 3-4 ft. bgs | 40.551257 | -104.628644 | NC | 0.1 |
| BKG10 @ 7-8' | 3/30/2023 | 7-8 ft. bgs | 40.551257 | -104.628644 | NC | 0.0 |
| BKG11 @ 3-4' | 3/30/2023 | 3-4 ft. bgs | 40.551428 | -104.628403 | NC | 0.0 |
| BKG11 @ 7-8' | 3/30/2023 | 7-8 ft. bgs | 40.551428 | -104.628403 | NC | 0.0 |

TABLE 5
FORMER BOOTH 7-26 WELLHEAD
FIELD DATA SUMMARY TABLE

| Sample ID | Date Sampled | Depth | GPS Data ⁽¹⁾ Latitude / Longitude | PDOP Value | VOC Concentration ⁽²⁾ (ppm) |
|-----------|--------------|-------|---|------------|--|
|-----------|--------------|-------|---|------------|--|

Notes:

1. Global Positioning System (GPS) data is provided in decimal degrees using World Geodetic System (WGS) 84 UTM Zone 13 North.

2. Volatile organic compound (VOC) concentrations are measured in the field using a photoionization detector (PID).

PDOP = Position Dilution of Precision

3. Background soil sample submitted as representative native material for this location and the adjacent Booth 25-26 Wellhead.

ppm = Parts per million

ft. = Feet

in. = Inches

bgs = Below ground surface

NC = Data not collected

Attachment A

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 09, 2021

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

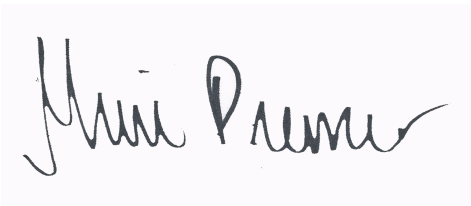
Denver, CO 80203

RE: Booth 7-26 Wellhead

Work Order #2106527

Enclosed are the results of analyses for samples received by Summit Scientific on 06/30/21 18:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Muri Premier", on a light purple rectangular background.

Muri Premier For Paul Shrewsbury
President



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/09/21 14:18

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|------------|---------------|--------|----------------|----------------|
| FLR01-B@7' | 2106527-01 | Soil | 06/30/21 15:25 | 06/30/21 18:10 |
| FLR01-S@3' | 2106527-04 | Soil | 06/30/21 15:31 | 06/30/21 18:10 |
| WH01@6' | 2106527-06 | Soil | 06/30/21 12:06 | 06/30/21 18:10 |
| FLR01@2.5' | 2106527-07 | Soil | 06/30/21 12:13 | 06/30/21 18:10 |

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

2106527

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 1

Client: PDC / Tasman

Project Manager: Mark Longhurst

Address: 6855 W 119th Ave

E-Mail: mark.longhurst@PDCE.com

City/State/Zip: Broomfield/ CO/ 80020

Phone: 303-487-1228

Project Name: Booth 7-26 wellhead

Sampler Name: TX1-LR Muffel

Project Number:

| | | | | | Preservative | | | | Matrix | | | | Analysis Requested | | | | | | | Special Instructions | | | | | | |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|----------------|-------|--------------------|------------------|-------------------|-------------|-------------|---|---|----------------------|--|--|--|--|--|--------------------------------|
| ID | Sample Description | Date Sampled | Time Sampled | # of containers | HCl | HNO3 | None | Other | Water | Soil | Air-Canister # | Other | BTEXN - 8260B | TPH - (C6 - C36) | 1,2,4 & 1,3,5-TMB | Boron - HWS | pH, EC, SAR | | | | | | | | | pH, EC, SAR by saturated paste |
| 1 | FLR01-B 07' | 6/30/21 | 15:25 | 3 | | | X | | | X | | | X | X | X | | | | | | | | | | | |
| 2 | FLR01-N 03' | ↓ | 15:29 | 3 | | | ↓ | | | ↓ | | | | | | | | | X | | | | | | | |
| 3 | FLR01-E 03' | ↓ | 15:30 | 3 | | | ↓ | | | ↓ | | | | | | | | | X | | | | | | | |
| 4 | FLR01-S 03' | ↓ | 15:31 | 3 | | | ↓ | | | ↓ | | | X | X | X | | | | | | | | | | | |
| 5 | FLR01-W 03' | ↓ | 15:32 | 3 | | | ↓ | | | ↓ | | | | | | | | | X | | | | | | | |
| 6 | WH01 06' | ↓ | 12:06 | 3 | | | ↓ | | | ↓ | | | X | X | X | | | | | | | | | | | |
| 7 | FLR01 02.5 | | 12:13 | 1 | | | | | | | | | | | | | X | X | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | |
|------------------------------------|--------------------------|--------------------------------|-------------------------|---|---------------|
| Relinquished by: <i>Tasman</i> | Date/Time: 6/30/21 17:58 | Received by: Tasman's Lock Box | Date/Time: 6/30/21 1810 | Turn Around Time (Check) Same Day <input checked="" type="checkbox"/> 72 hours ___ 24 hours ___ Standard ___ 48 hours ___ Sample Integrity: Temperature Upon Receipt: 7 Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No | Notes: |
| Relinquished by: Tasman's Lock Box | Date/Time: 6/30/21 1810 | Received by: <i>John Doe</i> | Date/Time: 6/30/21 1810 | | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | | |

Sample Receipt Checklist

S2 Work Order 2106527

Client: PDC/Tasman Client Project ID: Booth 7-26 wellhead

Shipped Via: ☐ H.D./P.U./FedEx/UPS/USPS/Other ☒ Airbill #: _____

Matrix (check all that apply): ☐ Air ☒ Soil/Solid ☐ Water ☐ Other: _____
(Describe)

| | |
|-----------|----------|
| Temp (°C) | <u>7</u> |
|-----------|----------|

Thermometer ID: 61857155-K

| | Yes | No | N/A | Comments (if any) |
|---|-------------------------------------|--------------------------|-------------------------------------|-------------------|
| If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <u>On ice</u> |
| Were all samples received intact ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was adequate sample volume provided ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| If custody seals are present, are they intact ⁽¹⁾ ? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Are samples with holding times due within 48 hours sample due within 48 hours present? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <u>Same day.</u> |
| Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| For volatiles in water – is there headspace present? If yes, contact client and note in narrative. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If dissolved metals are requested, were samples field filtered? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

Additional Comments (if any):

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

JB
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

6/30/12
Date/Time



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/09/21 14:18

FLR01-B@7'
2106527-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/30/21 15:25**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | BEF0624 | 06/30/21 | 06/30/21 | EPA 8260B | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | " | " | " | " | " | |

Date Sampled: **06/30/21 15:25**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | | 98.1 % | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 102 % | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 102 % | 21-167 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/30/21 15:25**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BEF0625 | 06/30/21 | 06/30/21 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **06/30/21 15:25**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | | 98.6 % | 30-150 | | " | " | " | " | |

Summit Scientific

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



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/09/21 14:18

FLR01-S@3'
2106527-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/30/21 15:31**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Benzene | ND | 0.0020 | mg/kg | 1 | BEF0624 | 06/30/21 | 06/30/21 | EPA 8260B | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | " | " | " | " | " | |

Date Sampled: **06/30/21 15:31**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97.9 % | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 102 % | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 101 % | 21-167 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/30/21 15:31**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BEF0625 | 06/30/21 | 06/30/21 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **06/30/21 15:31**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | |
| Surrogate: o-Terphenyl | | 97.1 % | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/09/21 14:18

WH01@6'
2106527-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/30/21 12:06**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Benzene | ND | 0.0020 | mg/kg | 1 | BEF0624 | 06/30/21 | 06/30/21 | EPA 8260B | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | " | " | " | " | " | |

Date Sampled: **06/30/21 12:06**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.8 % | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 102 % | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 103 % | 21-167 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/30/21 12:06**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BEF0625 | 06/30/21 | 06/30/21 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **06/30/21 12:06**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | |
| Surrogate: o-Terphenyl | | 96.8 % | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/09/21 14:18

FLR01@2.5'
2106527-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/30/21 12:13**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.102 | 0.0100 | mg/L | 1 | BEG0072 | 07/06/21 | 07/07/21 | EPA 6020B | |

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

Date Sampled: **06/30/21 12:13**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 39.4 | 0.0582 | mg/L dry | 1 | BEG0031 | 07/01/21 | 07/02/21 | EPA 6020B | |
| Magnesium | 14.3 | 0.0582 | " | " | " | " | " | " | |
| Sodium | 25.0 | 0.0582 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **06/30/21 12:13**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.868 | 0.00100 | units | 1 | BEG0146 | 07/08/21 | 07/08/21 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/30/21 12:13**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 86.0 | | % | 1 | BEG0070 | 07/06/21 | 07/07/21 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/30/21 12:13**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.389 | 0.0100 | mmhos/cm | 1 | BEG0053 | 07/02/21 | 07/04/21 | EPA 120.1 | |

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

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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/09/21 14:18

FLR01@2.5'
2106527-07 (Soil)

Summit Scientific

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

Date Sampled: **06/30/21 12:13**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| pH | 8.31 | | | pH Units | 1 | BEG0054 | 07/02/21 | 07/04/21 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/09/21 14:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEF0624 - EPA 5030 Soil MS

Blank (BEF0624-BLK1)

Prepared: 06/30/21 Analyzed: 07/01/21

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|-----|--------|--|--|--|
| 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 | 0.0406 | | " | 0.0400 | | 102 | 23-173 | | | |
| Surrogate: Toluene-d8 | 0.0409 | | " | 0.0400 | | 102 | 20-170 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0403 | | " | 0.0400 | | 101 | 21-167 | | | |

LCS (BEF0624-BS1)

Prepared: 06/30/21 Analyzed: 07/01/21

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | 0.107 | 0.0020 | mg/kg | 0.100 | | 107 | 70-130 | | | |
| Toluene | 0.111 | 0.0050 | " | 0.100 | | 111 | 70-130 | | | |
| Ethylbenzene | 0.0970 | 0.0050 | " | 0.100 | | 97.0 | 70-130 | | | |
| m,p-Xylene | 0.187 | 0.010 | " | 0.200 | | 93.6 | 70-130 | | | |
| o-Xylene | 0.103 | 0.0050 | " | 0.100 | | 103 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.0939 | 0.0050 | " | 0.100 | | 93.9 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0866 | 0.0050 | " | 0.100 | | 86.6 | 70-130 | | | |
| Naphthalene | 0.0813 | 0.0038 | " | 0.100 | | 81.3 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0417 | | " | 0.0400 | | 104 | 23-173 | | | |
| Surrogate: Toluene-d8 | 0.0427 | | " | 0.0400 | | 107 | 20-170 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0406 | | " | 0.0400 | | 101 | 21-167 | | | |

Matrix Spike (BEF0624-MS1)

Source: 2106526-01

Prepared: 06/30/21 Analyzed: 07/01/21

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|---------|------|--------|--|--|--|
| Benzene | 0.113 | 0.0020 | mg/kg | 0.100 | 0.0179 | 95.2 | 70-130 | | | |
| Toluene | 0.0841 | 0.0050 | " | 0.100 | 0.00627 | 77.8 | 70-130 | | | |
| Ethylbenzene | 0.104 | 0.0050 | " | 0.100 | ND | 104 | 70-130 | | | |
| m,p-Xylene | 0.201 | 0.010 | " | 0.200 | ND | 101 | 70-130 | | | |
| o-Xylene | 0.0805 | 0.0050 | " | 0.100 | ND | 80.5 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.102 | 0.0050 | " | 0.100 | ND | 102 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0963 | 0.0050 | " | 0.100 | ND | 96.3 | 70-130 | | | |
| Naphthalene | 0.0958 | 0.0038 | " | 0.100 | ND | 95.8 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0425 | | " | 0.0400 | | 106 | 23-173 | | | |
| Surrogate: Toluene-d8 | 0.0426 | | " | 0.0400 | | 106 | 20-170 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0402 | | " | 0.0400 | | 100 | 21-167 | | | |

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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/09/21 14:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BEF0624 - EPA 5030 Soil MS

| Matrix Spike Dup (BEF0624-MSD1) | Source: 2106526-01 | | | Prepared: 06/30/21 Analyzed: 07/01/21 | | | | | | |
|----------------------------------|--------------------|--------|-------|---------------------------------------|---------|------|--------|------|----|--|
| Benzene | 0.117 | 0.0020 | mg/kg | 0.100 | 0.0179 | 99.3 | 70-130 | 3.52 | 30 | |
| Toluene | 0.103 | 0.0050 | " | 0.100 | 0.00627 | 96.6 | 70-130 | 20.1 | 30 | |
| Ethylbenzene | 0.0906 | 0.0050 | " | 0.100 | ND | 90.6 | 70-130 | 13.8 | 30 | |
| m,p-Xylene | 0.170 | 0.010 | " | 0.200 | ND | 85.0 | 70-130 | 16.7 | 30 | |
| o-Xylene | 0.0944 | 0.0050 | " | 0.100 | ND | 94.4 | 70-130 | 16.0 | 30 | |
| 1,2,4-Trimethylbenzene | 0.0888 | 0.0050 | " | 0.100 | ND | 88.8 | 70-130 | 14.0 | 30 | |
| 1,3,5-Trimethylbenzene | 0.0815 | 0.0050 | " | 0.100 | ND | 81.5 | 70-130 | 16.6 | 30 | |
| Naphthalene | 0.0837 | 0.0038 | " | 0.100 | ND | 83.7 | 70-130 | 13.5 | 30 | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0415 | | " | 0.0400 | | 104 | 23-173 | | | |
| Surrogate: Toluene-d8 | 0.0424 | | " | 0.0400 | | 106 | 20-170 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0401 | | " | 0.0400 | | 100 | 21-167 | | | |

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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/09/21 14:18

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BEF0625 - EPA 3550A

Blank (BEF0625-BLK1)

Prepared & Analyzed: 06/30/21

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

LCS (BEF0625-BS1)

Prepared: 06/30/21 Analyzed: 07/01/21

| | | | | | | |
|---------------|-----|----|-------|-----|-----|--------|
| C10-C28 (DRO) | 505 | 50 | mg/kg | 500 | 101 | 70-130 |
|---------------|-----|----|-------|-----|-----|--------|

Matrix Spike (BEF0625-MS1)

Source: 2106526-01

Prepared: 06/30/21 Analyzed: 07/01/21

| | | | | | | | |
|---------------|-----|----|-------|-----|------|------|--------|
| C10-C28 (DRO) | 477 | 50 | mg/kg | 500 | 16.1 | 92.1 | 70-130 |
|---------------|-----|----|-------|-----|------|------|--------|

Matrix Spike Dup (BEF0625-MSD1)

Source: 2106526-01

Prepared: 06/30/21 Analyzed: 07/01/21

| | | | | | | | | | |
|---------------|-----|----|-------|-----|------|------|--------|------|----|
| C10-C28 (DRO) | 496 | 50 | mg/kg | 500 | 16.1 | 96.0 | 70-130 | 3.98 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/09/21 14:18

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

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

Batch BEG0072 - EPA 3050B

Blank (BEG0072-BLK1)

Prepared: 07/06/21 Analyzed: 07/07/21

Boron ND 0.0100 mg/L

LCS (BEG0072-BS1)

Prepared: 07/06/21 Analyzed: 07/07/21

Boron 5.03 0.0100 mg/L 5.00 101 80-120

Duplicate (BEG0072-DUP1)

Source: 2106519-01

Prepared: 07/06/21 Analyzed: 07/07/21

Boron 0.426 0.0100 mg/L 0.492 14.5 20

Matrix Spike (BEG0072-MS1)

Source: 2106519-01

Prepared: 07/06/21 Analyzed: 07/07/21

Boron 5.03 0.0100 mg/L 5.00 0.492 90.9 75-125

Matrix Spike Dup (BEG0072-MSD1)

Source: 2106519-01

Prepared: 07/06/21 Analyzed: 07/07/21

Boron 5.00 0.0100 mg/L 5.00 0.492 90.1 75-125 0.755 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/09/21 14:18

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

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

Batch BEG0031 - General Preparation

Blank (BEG0031-BLK1)

Prepared: 07/01/21 Analyzed: 07/02/21

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

LCS (BEG0031-BS1)

Prepared: 07/01/21 Analyzed: 07/02/21

| | | | | | | |
|-----------|------|--------|----------|------|-----|--------|
| Calcium | 5.26 | 0.0500 | mg/L wet | 5.00 | 105 | 70-130 |
| Magnesium | 5.24 | 0.0500 | " | 5.00 | 105 | 70-130 |
| Sodium | 5.17 | 0.0500 | " | 5.00 | 103 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/09/21 14:18

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

Summit Scientific

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

Batch BEG0070 - General Preparation

| Duplicate (BEG0070-DUP1) | | Source: 2106485-10 | | Prepared: 07/06/21 Analyzed: 07/07/21 | |
|--------------------------|------|--------------------|---|---------------------------------------|----------|
| % Solids | 84.4 | | % | 83.8 | 0.647 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/09/21 14:18

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

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

Batch BEG0053 - General Preparation

Blank (BEG0053-BLK1)

Prepared: 07/02/21 Analyzed: 07/04/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BEG0053-BS1)

Prepared: 07/02/21 Analyzed: 07/04/21

Specific Conductance (EC) 0.140 0.0100 mmhos/cm 0.150 93.1 90-110

Duplicate (BEG0053-DUP1)

Source: 2106513-01

Prepared: 07/02/21 Analyzed: 07/04/21

Specific Conductance (EC) 0.844 0.0100 mmhos/cm 0.845 0.0829 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:

07/09/21 14:18

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

Summit Scientific

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

Batch BEG0054 - General Preparation

LCS (BEG0054-BS1)

Prepared: 07/02/21 Analyzed: 07/04/21

| | | | | | |
|----|------|----------|------|-----|--------|
| pH | 9.21 | pH Units | 9.21 | 100 | 95-105 |
|----|------|----------|------|-----|--------|

Duplicate (BEG0054-DUP1)

Source: 2106513-01

Prepared: 07/02/21 Analyzed: 07/04/21

| | | | | | |
|----|------|----------|------|-------|----|
| pH | 8.06 | pH Units | 8.11 | 0.618 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/09/21 14:18

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

August 02, 2021

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

Denver, CO 80203

RE: Booth 25-26 Wellheads

Work Order #2106544

Enclosed are the results of analyses for samples received by Summit Scientific on 06/30/21 18:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury

President



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 25-26 Wellheads
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/02/21 12:14

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|------------|---------------|--------|----------------|----------------|
| WH01@6' | 2106544-01 | Soil | 06/30/21 11:31 | 06/30/21 18:10 |
| FLR01@2.5' | 2106544-02 | Soil | 06/30/21 11:38 | 06/30/21 18:10 |
| BKG01@2.5' | 2106544-03 | Soil | 06/30/21 11:48 | 06/30/21 18:10 |

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

S₂

2106544

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

Page 1 of 1

| | | | |
|-----------------|-----------------------|------------------|-------------------------|
| Client: | PDC / Tasman | Project Manager: | Mark Longhurst |
| Address: | 6855 W 119th Ave | E-Mail: | mark.longhurst@PDCE.com |
| City/State/Zip: | Broomfield/ CO/ 80020 | | |
| Phone: | 303-487-1228 | Project Name: | Booth 25-26 wellheads |
| Sampler Name: | Tyler Murrel | 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 | BTEXN - 8260B | TPH - (C6 - C36) | 1,2,4 & 1,3,5-TMB | Boron - HWS | pH, EC, SAR | Other | | | | | | |
| 1 | WHOI @ 6' | 6/30/21 | 11:31 | 3 | | | X | | | X | | | | X | X | X | | | | | | | | pH, EC, SAR by saturated paste |
| 2 | FLROI @ 2.5' | ↓ | 11:38 | 1 | | | X | | | X | | | | | | | X | X | | | | | | |
| 3 | BKGOI @ 2.5' | ↓ | 11:48 | 1 | | | X | | | X | | | | | | | | | | X | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|-------------------|---------------|-------------------|--------------|-------------------|---------------------------|--------|
| Relinquished by: | Date/Time: | Received by: | Date/Time: | Turn Around Time | (Check) | Notes: |
| lym | 6/30/21 17:46 | Tasman's Lock Box | 6/30/21 1810 | Same Day | 72 hours | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 24 hours | Standard | |
| Tasman's Lock Box | 6/30/21 1810 | [Signature] | 6/30/21 1810 | 48 hours | X | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | Sample Integrity: | Temperature Upon Receipt: | |
| | | | | | 7 | |
| | | | | Samples Intact: | Yes No | |
| | | | | | | |

Sample Receipt Checklist

S2 Work Order 2106544

Client: PDC/Troman Client Project ID: Booth 25-26 wellheads

Shipped Via: ☐ H.D./P.U./FedEx/UPS/USPS/Other ☒ Airbill #: _____

Matrix (check all that apply): ☐ Air ☒ Soil/Solid ☐ Water ☐ Other: _____
(Describe)

Temp (°C) 7

Thermometer ID: 61857155-K

| | Yes | No | N/A | Comments (if any) |
|---|-------------------------------------|--------------------------|-------------------------------------|-------------------|
| If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <u>On ice.</u> |
| Were all samples received intact ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was adequate sample volume provided ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| If custody seals are present, are they intact ⁽¹⁾ ? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Are samples with holding times due within 48 hours sample due within 48 hours present? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| For volatiles in water – is there headspace present? If yes, contact client and note in narrative. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If dissolved metals are requested, were samples field filtered? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

Additional Comments (if any):

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

JB
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

6/30/21
Date/Time



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 25-26 Wellheads

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/02/21 12:14

WH01@6'
2106544-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/30/21 11:31**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | BEG0044 | 07/02/21 | 07/03/21 | EPA 8260B | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | " | " | " | " | " | |

Date Sampled: **06/30/21 11:31**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | | 99.3 % | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 125 % | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 102 % | 21-167 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/30/21 11:31**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BEG0045 | 07/02/21 | 07/02/21 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **06/30/21 11:31**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | | 97.9 % | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 25-26 Wellheads
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/02/21 12:14

FLR01@2.5'
2106544-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/30/21 11:38**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.0560 | 0.0100 | mg/L | 1 | BEG0072 | 07/06/21 | 07/07/21 | EPA 6020B | |

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

Date Sampled: **06/30/21 11:38**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 34.0 | 0.0565 | mg/L dry | 1 | BEG0063 | 07/05/21 | 07/07/21 | EPA 6020B | |
| Magnesium | 9.28 | 0.0565 | " | " | " | " | " | " | |
| Sodium | 24.0 | 0.0565 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **06/30/21 11:38**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.888 | 0.00100 | units | 1 | BEG0146 | 07/08/21 | 07/08/21 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/30/21 11:38**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 88.4 | | % | 1 | BEG0157 | 07/09/21 | 07/09/21 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/30/21 11:38**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.289 | 0.0100 | mmhos/cm | 1 | BEG0096 | 07/07/21 | 07/07/21 | EPA 120.1 | |

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

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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 25-26 Wellheads
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/02/21 12:14

FLR01@2.5'
2106544-02 (Soil)

Summit Scientific

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

Date Sampled: **06/30/21 11:38**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| pH | 8.31 | | | pH Units | 1 | BEG0094 | 07/07/21 | 07/07/21 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 25-26 Wellheads
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/02/21 12:14

BKG01@2.5'
2106544-03 (Soil)

Summit Scientific

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

Date Sampled: **06/30/21 11:48**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| pH | 8.58 | | | pH Units | 1 | BEG0525 | 07/29/21 | 07/29/21 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 25-26 Wellheads

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/02/21 12:14

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEG0044 - EPA 5030 Soil MS

Blank (BEG0044-BLK1)

Prepared: 07/02/21 Analyzed: 07/03/21

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| 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 | 0.0265 | | " | 0.0400 | | 66.2 | 23-173 | | | |
| Surrogate: Toluene-d8 | 0.0422 | | " | 0.0400 | | 106 | 20-170 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0362 | | " | 0.0400 | | 90.6 | 21-167 | | | |

LCS (BEG0044-BS1)

Prepared: 07/02/21 Analyzed: 07/03/21

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | 0.0699 | 0.0020 | mg/kg | 0.0750 | | 93.2 | 70-130 | | | |
| Toluene | 0.0837 | 0.0050 | " | 0.0750 | | 112 | 70-130 | | | |
| Ethylbenzene | 0.0968 | 0.0050 | " | 0.0750 | | 129 | 70-130 | | | |
| m,p-Xylene | 0.175 | 0.010 | " | 0.150 | | 116 | 70-130 | | | |
| o-Xylene | 0.0821 | 0.0050 | " | 0.0750 | | 109 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.0902 | 0.0050 | " | 0.0750 | | 120 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0938 | 0.0050 | " | 0.0750 | | 125 | 70-130 | | | |
| Naphthalene | 0.0556 | 0.0038 | " | 0.0750 | | 74.1 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0210 | | " | 0.0400 | | 52.4 | 23-173 | | | |
| Surrogate: Toluene-d8 | 0.0421 | | " | 0.0400 | | 105 | 20-170 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0366 | | " | 0.0400 | | 91.4 | 21-167 | | | |

Matrix Spike (BEG0044-MS1)

Source: 2106543-03

Prepared: 07/02/21 Analyzed: 07/03/21

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|----|------|--------|--|--|--|
| Benzene | 0.0700 | 0.0020 | mg/kg | 0.0750 | ND | 93.4 | 70-130 | | | |
| Toluene | 0.0796 | 0.0050 | " | 0.0750 | ND | 106 | 70-130 | | | |
| Ethylbenzene | 0.0962 | 0.0050 | " | 0.0750 | ND | 128 | 70-130 | | | |
| m,p-Xylene | 0.178 | 0.010 | " | 0.150 | ND | 119 | 70-130 | | | |
| o-Xylene | 0.0822 | 0.0050 | " | 0.0750 | ND | 110 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.0904 | 0.0050 | " | 0.0750 | ND | 121 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0926 | 0.0050 | " | 0.0750 | ND | 124 | 70-130 | | | |
| Naphthalene | 0.0659 | 0.0038 | " | 0.0750 | ND | 87.9 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0233 | | " | 0.0400 | | 58.3 | 23-173 | | | |
| Surrogate: Toluene-d8 | 0.0394 | | " | 0.0400 | | 98.4 | 20-170 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0361 | | " | 0.0400 | | 90.2 | 21-167 | | | |

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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 25-26 Wellheads
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/02/21 12:14

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BEG0044 - EPA 5030 Soil MS

| Matrix Spike Dup (BEG0044-MSD1) | Source: 2106543-03 | | | Prepared: 07/02/21 Analyzed: 07/03/21 | | | | | | |
|----------------------------------|--------------------|--------|-------|---------------------------------------|----|------|--------|-------|----|--|
| Benzene | 0.0716 | 0.0020 | mg/kg | 0.0750 | ND | 95.5 | 70-130 | 2.20 | 30 | |
| Toluene | 0.0790 | 0.0050 | " | 0.0750 | ND | 105 | 70-130 | 0.757 | 30 | |
| Ethylbenzene | 0.0890 | 0.0050 | " | 0.0750 | ND | 119 | 70-130 | 7.81 | 30 | |
| m,p-Xylene | 0.181 | 0.010 | " | 0.150 | ND | 121 | 70-130 | 1.45 | 30 | |
| o-Xylene | 0.0837 | 0.0050 | " | 0.0750 | ND | 112 | 70-130 | 1.81 | 30 | |
| 1,2,4-Trimethylbenzene | 0.0931 | 0.0050 | " | 0.0750 | ND | 124 | 70-130 | 2.91 | 30 | |
| 1,3,5-Trimethylbenzene | 0.0957 | 0.0050 | " | 0.0750 | ND | 128 | 70-130 | 3.22 | 30 | |
| Naphthalene | 0.0697 | 0.0038 | " | 0.0750 | ND | 92.9 | 70-130 | 5.53 | 30 | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0239 | | " | 0.0400 | | 59.8 | 23-173 | | | |
| Surrogate: Toluene-d8 | 0.0386 | | " | 0.0400 | | 96.4 | 20-170 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0363 | | " | 0.0400 | | 90.7 | 21-167 | | | |

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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 25-26 Wellheads

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/02/21 12:14

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BEG0045 - EPA 3550A

Blank (BEG0045-BLK1)

Prepared & Analyzed: 07/02/21

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

LCS (BEG0045-BS1)

Prepared & Analyzed: 07/02/21

| | | | | | | |
|---------------|-----|----|-------|-----|------|--------|
| C10-C28 (DRO) | 470 | 50 | mg/kg | 500 | 93.9 | 70-130 |
|---------------|-----|----|-------|-----|------|--------|

Matrix Spike (BEG0045-MS1)

Source: 2106543-03

Prepared & Analyzed: 07/02/21

| | | | | | | | |
|---------------|-----|----|-------|-----|------|------|--------|
| C10-C28 (DRO) | 435 | 50 | mg/kg | 500 | 16.3 | 83.8 | 70-130 |
|---------------|-----|----|-------|-----|------|------|--------|

Matrix Spike Dup (BEG0045-MSD1)

Source: 2106543-03

Prepared & Analyzed: 07/02/21

| | | | | | | | | | |
|---------------|-----|----|-------|-----|------|------|--------|------|----|
| C10-C28 (DRO) | 445 | 50 | mg/kg | 500 | 16.3 | 85.8 | 70-130 | 2.35 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 25-26 Wellheads
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/02/21 12:14

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

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

Batch BEG0072 - EPA 3050B

Blank (BEG0072-BLK1)

Prepared: 07/06/21 Analyzed: 07/07/21

Boron ND 0.0100 mg/L

LCS (BEG0072-BS1)

Prepared: 07/06/21 Analyzed: 07/07/21

Boron 5.03 0.0100 mg/L 5.00 101 80-120

Duplicate (BEG0072-DUP1)

Source: 2106519-01

Prepared: 07/06/21 Analyzed: 07/07/21

Boron 0.426 0.0100 mg/L 0.492 14.5 20

Matrix Spike (BEG0072-MS1)

Source: 2106519-01

Prepared: 07/06/21 Analyzed: 07/07/21

Boron 5.03 0.0100 mg/L 5.00 0.492 90.9 75-125

Matrix Spike Dup (BEG0072-MSD1)

Source: 2106519-01

Prepared: 07/06/21 Analyzed: 07/07/21

Boron 5.00 0.0100 mg/L 5.00 0.492 90.1 75-125 0.755 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 25-26 Wellheads

Project Number: [none]

Project Manager: Mark Longhurst

Reported:

08/02/21 12:14

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

Summit Scientific

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

Batch BEG0063 - General Preparation

Blank (BEG0063-BLK1)

Prepared: 07/05/21 Analyzed: 07/07/21

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

LCS (BEG0063-BS1)

Prepared: 07/05/21 Analyzed: 07/07/21

| | | | | | | |
|-----------|------|--------|----------|------|-----|--------|
| Calcium | 5.54 | 0.0500 | mg/L wet | 5.00 | 111 | 70-130 |
| Magnesium | 5.67 | 0.0500 | " | 5.00 | 113 | 70-130 |
| Sodium | 5.29 | 0.0500 | " | 5.00 | 106 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 25-26 Wellheads

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/02/21 12:14

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

Summit Scientific

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

Batch BEG0157 - General Preparation

| Duplicate (BEG0157-DUP1) | | Source: 2106543-01 | | Prepared & Analyzed: 07/09/21 | |
|--------------------------|------|--------------------|---|-------------------------------|---------|
| % Solids | 84.3 | | % | 84.3 | 0.00 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 25-26 Wellheads
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/02/21 12:14

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

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

Batch BEG0096 - General Preparation

Blank (BEG0096-BLK1)

Prepared & Analyzed: 07/07/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BEG0096-BS1)

Prepared & Analyzed: 07/07/21

Specific Conductance (EC) 0.141 0.0100 mmhos/cm 0.150 93.9 90-110

Duplicate (BEG0096-DUP1)

Source: 2106525-02

Prepared & Analyzed: 07/07/21

Specific Conductance (EC) 0.310 0.0100 mmhos/cm 0.311 0.193 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 25-26 Wellheads

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/02/21 12:14

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

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

Batch BEG0094 - General Preparation

LCS (BEG0094-BS1)

Prepared & Analyzed: 07/07/21

| | | | | | | |
|----|------|--|----------|------|-----|--------|
| pH | 9.24 | | pH Units | 9.21 | 100 | 95-105 |
|----|------|--|----------|------|-----|--------|

Duplicate (BEG0094-DUP1)

Source: 2106525-02

Prepared & Analyzed: 07/07/21

| | | | | | | | |
|----|------|--|----------|------|--|-------|----|
| pH | 8.08 | | pH Units | 8.09 | | 0.124 | 20 |
|----|------|--|----------|------|--|-------|----|

Batch BEG0525 - General Preparation

LCS (BEG0525-BS1)

Prepared & Analyzed: 07/29/21

| | | | | | | |
|----|------|--|----------|------|-----|--------|
| pH | 9.33 | | pH Units | 9.21 | 101 | 95-105 |
|----|------|--|----------|------|-----|--------|

Duplicate (BEG0525-DUP1)

Source: 2107230-03

Prepared & Analyzed: 07/29/21

| | | | | | | | |
|----|------|--|----------|------|--|------|----|
| pH | 8.60 | | pH Units | 8.96 | | 4.10 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 25-26 Wellheads

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/02/21 12:14

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

July 05, 2022

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

Denver, CO 80203

RE: Booth 7-26 Wellhead

Work Order #2206059

Enclosed are the results of analyses for samples received by Summit Scientific on 06/02/22 17:48. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Mikayla Axtell".

Mikayla Axtell For Paul Shrewsbury

President



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|------------|---------------|--------|----------------|----------------|
| SB01@7-8' | 2206059-01 | Soil | 06/02/22 10:02 | 06/02/22 17:48 |
| SB02@3-4' | 2206059-02 | Soil | 06/02/22 09:52 | 06/02/22 17:48 |
| SB03@3-4' | 2206059-03 | Soil | 06/02/22 09:28 | 06/02/22 17:48 |
| SB04@3-4' | 2206059-04 | Soil | 06/02/22 10:23 | 06/02/22 17:48 |
| SB05@3-4' | 2206059-05 | Soil | 06/02/22 10:16 | 06/02/22 17:48 |
| BKG02@3-4' | 2206059-06 | Soil | 06/02/22 10:32 | 06/02/22 17:48 |
| BKG02@7-8' | 2206059-07 | Soil | 06/02/22 10:59 | 06/02/22 17:48 |
| BKG03@3-4' | 2206059-08 | Soil | 06/02/22 11:03 | 06/02/22 17:48 |
| BKG03@7-8' | 2206059-09 | Soil | 06/02/22 11:28 | 06/02/22 17:48 |
| BKG04@3-4' | 2206059-10 | Soil | 06/02/22 10:45 | 06/02/22 17:48 |
| BKG04@7-8' | 2206059-11 | Soil | 06/02/22 11:11 | 06/02/22 17:48 |
| BKG05@3-4' | 2206059-12 | Soil | 06/02/22 11:38 | 06/02/22 17:48 |
| BKG05@7-8' | 2206059-13 | Soil | 06/02/22 12:01 | 06/02/22 17:48 |
| BKG06@3-4' | 2206059-14 | Soil | 06/02/22 12:26 | 06/02/22 17:48 |
| BKG06@7-8' | 2206059-15 | Soil | 06/02/22 12:50 | 06/02/22 17:48 |

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

S₂

2206059.1

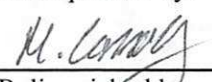
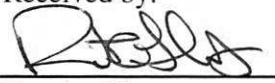
4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Page 1 of 2

Client: PDC / Tasman
Address: 6855 W 119th Ave
City/State/Zip: Broomfield/ CO/ 80020
Phone: 303-487-1228
Sampler Name: Mike Connolly

Project Manager: Mark Longhurst
E-Mail: mark.longhurst@PDCE.com
Project Name: Booth 7-26 Wellhead
Project Number: N/A

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative | | | | Matrix | | | | Analysis Requested | | | | | | | | | Special Instructions |
|----|--------------------|--------------|--------------|-----------------|--------------|------------------|------|-------|--------|------|----------------|-------|--------------------|------------------|-------------------|-------------|-------------|------|--------|---------|--------------------------------|----------------------|
| | | | | | HCl | HNO ₃ | None | Other | Water | Soil | Air-Canister # | Other | BTEXN - 8260B | TPH - (C6 - C36) | 1,2,4 & 1,3,5-TMB | Boron - HWS | pH, EC, SAR | PAHs | Metals | On Hold | | |
| 1 | SB01 @ 7-8' | 6/2/22 | 1002 | 3 | | | X | | | X | | | X | X | X | X | X | X | X | | pH, EC, SAR by saturated paste | |
| 2 | SB02 @ 3-4' | | 952 | 3 | | | X | | | X | | | X | X | X | X | X | X | | | | |
| 3 | SB03 @ 3-4' | | 928 | 3 | | | X | | | X | | | X | X | X | X | X | X | | | | |
| 4 | SB04 @ 3-4' | | 1023 | 3 | | | X | | | X | | | X | X | X | X | X | X | | | | |
| 5 | SB05 @ 3-4' | | 1016 | 3 | | | X | | | X | | | X | X | X | X | X | X | | | | |
| 6 | BK602 @ 3-4' | | 1032 | 2 | | | X | | | X | | | | | | | | X | X | | | |
| 7 | BK602 @ 7-8' | | 1059 | 2 | | | X | | | X | | | | | | | | X | X | | | |
| 8 | BK603 @ 3-4' | | 1103 | 2 | | | X | | | X | | | | | | | | X | X | | | |
| 9 | BK603 @ 7-8' | | 1128 | 2 | | | X | | | X | | | | | | | | X | X | | | |
| 10 | BK604 @ 3-4' | | 1045 | 2 | | | X | | | X | | | | | | | | X | X | | | |

| | | | | | |
|---|------------------------|--|------------------------|---|---|
| Relinquished by:  | Date/Time: 6/2/22 1500 | Received by: Tasman's Lock Box | Date/Time: 6/2/22 1500 | Turn Around Time (Check) Same Day _____ 72 hours _____ 24 hours _____ Standard <u>X</u> 48 hours _____ Sample Integrity: Temperature Upon Receipt: <u>6.4</u> Samples Intact: <u>Yes</u> No | Notes: * On hold for inorganics |
| Relinquished by: Tasman's Lock Box | Date/Time: 6/2/22 1748 | Received by:  | Date/Time: 6/2/22 1748 | | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | | |

Summit Scientific

S₂

2206059.2

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 2 of 2

Client: PDC / Tasman

Project Manager: Mark Longhurst

Address: 6855 W 119th Ave

E-Mail: mark.longhurst@PDCE.com

City/State/Zip: Broomfield/ CO/ 80020

Phone: 303-487-1228

Project Name: Booth 7-26 wellhead

Sampler Name: Mike Connolly

Project Number: N/A

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative | | | | Matrix | | | | Analysis Requested | | | | | | | | Special Instructions |
|----|--------------------|--------------|--------------|-----------------|--------------|------------------|------|-------|--------|------|----------------|-------|--------------------|------------------|-------------------|-------------|-------------|--------|---------|--------------------------------|----------------------|
| | | | | | HCl | HNO ₃ | None | Other | Water | Soil | Air-Canister # | Other | BTEXN - 8260B | TPH - (C6 - C36) | 1,2,4 & 1,3,5-TMB | Boron - HWS | pH, EC, SAR | Metals | On Hold | | |
| 1 | BKGO4 @ 7-8' | 6/2/22 | 1111 | 2 | | | X | | | X | | | | | | | | X | X | pH, EC, SAR by saturated paste | |
| 2 | BKGO5 @ 3-4' | | 1138 | 2 | | | X | | | X | | | | | | | X | X | | | |
| 3 | BKGO5 @ 7-8' | | 1201 | 2 | | | X | | | X | | | | | | | X | X | | | |
| 4 | BKGO6 @ 3-4' | | 1226 | 2 | | | X | | | X | | | | | | | X | X | | | |
| 5 | BKGO6 @ 7-8' | | 1250 | 2 | | | X | | | X | | | | | | | X | X | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|--------------------|----------------|--------------------|----------------|--------------------------------------|----------|------------------------------------|
| Relinquished by: | Date/Time: | Received by: | Date/Time: | Turn Around Time | (Check) | Notes: ★ On hold for inorganics |
| <i>M. Connolly</i> | 6/2/22 | Tasman's Lock Box | 6/2/22 | Same Day | 72 hours | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 24 hours | Standard | |
| Tasman's Lock Box | 6/2/22 1748 | <i>[Signature]</i> | 6/2/22 1748 | 48 hours | | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | Sample Integrity: | | |
| | | | | Temperature Upon Receipt: <u>6.4</u> | | |
| | | | | Samples Intact: <u>Yes</u> No | | |

Client: Booth/Tosman Client Project ID: Booth 7-26 wellhead

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

| | | | | |
|--|---|--|--|--|
| | 1 | | | |
|--|---|--|--|--|

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

| | |
|-----------------------------|-----|
| Temp ($^{\circ}\text{C}$) | 9.4 |
|-----------------------------|-----|

Thermometer # 1

| | Yes | No | N/A | Comments (if any) |
|---|-----|----|-----|-------------------|
| If samples require cooling, is the temperature $< 6^{\circ}\text{C}$ ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun. | — | | | once |
| Were all samples received intact ⁽¹⁾ ? | — | | | |
| Was adequate sample volume provided ⁽¹⁾ ? | — | | | |
| If custody seals are present, are they intact ⁽¹⁾ ? | — | | | |
| Are samples due within 48 hours present? | | — | | |
| Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe^{2+}), Hexavalent Chromium (Cr^{6+} , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen | | | — | |
| Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ? | — | | | |
| Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ? | — | | | |
| Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ? | — | | | |
| Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ? | — | | | |
| For volatiles in water – is there headspace present? If yes, contact client and note in narrative. | | | — | |
| Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the comments column – HCl, H_2SO_4 , NaOH, HNO_3 , etc. | | | — | |
| If samples are acid preserved for metals, is the $\text{pH} \leq 2$ ⁽¹⁾ ? Record the pH in Comments. | | | — | |
| If dissolved metals are requested, were samples field filtered? | | | — | |
| <u>Additional Comments (if any):</u> | | | | |

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

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

Custodian Printed Name

Date/Time



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

SB01@7-8'
2206059-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/22 10:02**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | BFF0081 | 06/03/22 | 06/03/22 | 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: **06/02/22 10:02**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | | 102 % | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 92.4 % | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 90.2 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/22 10:02**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BFF0083 | 06/03/22 | 06/04/22 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **06/02/22 10:02**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | | 114 % | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

SB01@7-8'
2206059-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/02/22 10:02**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BFF0235 | 06/09/22 | 06/13/22 | 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: **06/02/22 10:02**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | | 63.5 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | | 61.8 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/02/22 10:02**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.113 | 0.0100 | mg/L | 1 | BFF0222 | 06/08/22 | 06/13/22 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/02/22 10:02**

| 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

SB01@7-8'
2206059-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| | | | | | | | | |
|----------|--------|--------|-----------|---|---------|----------|----------|-----------|
| Arsenic | 3.37 | 0.236 | mg/kg dry | 1 | BFF0425 | 06/15/22 | 06/16/22 | EPA 6020B |
| Barium | 94.2 | 0.473 | " | " | " | " | " | " |
| Cadmium | ND | 0.236 | " | " | " | " | " | " |
| Copper | 7.99 | 0.473 | " | " | " | " | " | " |
| Lead | 5.32 | 0.236 | " | " | " | " | " | " |
| Nickel | 9.18 | 0.473 | " | " | " | " | " | " |
| Selenium | 0.530 | 0.307 | " | " | " | " | " | " |
| Silver | 0.0314 | 0.0236 | " | " | " | " | " | " |
| Zinc | 27.8 | 0.473 | " | " | " | " | " | " |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/02/22 10:02**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BFF0340 | 06/13/22 | 06/13/22 | EPA 7196A | |

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

Date Sampled: **06/02/22 10:02**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 1440 | 0.0591 | mg/L dry | 1 | BFF0323 | 06/13/22 | 06/15/22 | EPA 6020B | |
| Magnesium | 173 | 0.0591 | " | " | " | " | " | " | |
| Sodium | 62.4 | 0.0591 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **06/02/22 10:02**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.414 | 0.00100 | units | 1 | BFF0430 | 06/16/22 | 06/16/22 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/22 10:02**

| 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

SB01@7-8'
2206059-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

| | | | | | | | |
|----------|------|---|---|---------|----------|----------|-------------|
| % Solids | 84.6 | % | 1 | BFF0223 | 06/08/22 | 06/09/22 | Calculation |
|----------|------|---|---|---------|----------|----------|-------------|

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/02/22 10:02**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.422 | 0.0100 | mmhos/cm | 1 | BFF0325 | 06/13/22 | 06/14/22 | EPA 120.1 | |

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

Date Sampled: **06/02/22 10:02**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.59 | | pH Units | 1 | BFF0326 | 06/13/22 | 06/14/22 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

SB02@3-4'
2206059-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/22 09:52**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Benzene | ND | 0.0020 | mg/kg | 1 | BFF0081 | 06/03/22 | 06/04/22 | 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: **06/02/22 09:52**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 103 % | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 93.2 % | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 92.6 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/22 09:52**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BFF0083 | 06/03/22 | 06/04/22 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **06/02/22 09:52**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | |
| Surrogate: o-Terphenyl | | 115 % | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

SB02@3-4'
2206059-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/02/22 09:52**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BFF0235 | 06/09/22 | 06/13/22 | 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: **06/02/22 09:52**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | | 62.6 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | | 59.6 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/02/22 09:52**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.121 | 0.0100 | mg/L | 1 | BFF0222 | 06/08/22 | 06/13/22 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/02/22 09:52**

| 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

SB02@3-4'
2206059-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| | | | | | | | | |
|----------|--------|--------|-----------|---|---------|----------|----------|-----------|
| Arsenic | 2.87 | 0.237 | mg/kg dry | 1 | BFF0425 | 06/15/22 | 06/17/22 | EPA 6020B |
| Barium | 120 | 0.475 | " | " | " | " | " | " |
| Cadmium | ND | 0.237 | " | " | " | " | " | " |
| Copper | 6.00 | 0.475 | " | " | " | " | " | " |
| Lead | 4.97 | 0.237 | " | " | " | " | " | " |
| Nickel | 6.80 | 0.475 | " | " | " | " | " | " |
| Selenium | 0.567 | 0.308 | " | " | " | " | " | " |
| Silver | 0.0327 | 0.0237 | " | " | " | " | " | " |
| Zinc | 22.7 | 0.475 | " | " | " | " | " | " |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/02/22 09:52**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BFF0340 | 06/13/22 | 06/13/22 | EPA 7196A | |

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

Date Sampled: **06/02/22 09:52**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 1400 | 0.0593 | mg/L dry | 1 | BFF0323 | 06/13/22 | 06/15/22 | EPA 6020B | |
| Magnesium | 174 | 0.0593 | " | " | " | " | " | " | |
| Sodium | 60.1 | 0.0593 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **06/02/22 09:52**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.403 | 0.00100 | units | 1 | BFF0430 | 06/16/22 | 06/16/22 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/22 09:52**

| 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

SB02@3-4'
2206059-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

| | | | | | | | |
|----------|------|---|---|---------|----------|----------|-------------|
| % Solids | 84.3 | % | 1 | BFF0223 | 06/08/22 | 06/09/22 | Calculation |
|----------|------|---|---|---------|----------|----------|-------------|

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/02/22 09:52**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.468 | 0.0100 | mmhos/cm | 1 | BFF0325 | 06/13/22 | 06/14/22 | EPA 120.1 | |

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

Date Sampled: **06/02/22 09:52**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.48 | | pH Units | 1 | BFF0326 | 06/13/22 | 06/14/22 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

SB03@3-4'
2206059-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/22 09:28**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Benzene | ND | 0.0020 | mg/kg | 1 | BFF0081 | 06/03/22 | 06/04/22 | 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: **06/02/22 09:28**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 92.6 % | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 93.2 % | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 92.7 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/22 09:28**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BFF0083 | 06/03/22 | 06/04/22 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **06/02/22 09:28**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | |
| Surrogate: o-Terphenyl | | 115 % | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

SB03@3-4'
2206059-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/02/22 09:28**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BFF0235 | 06/09/22 | 06/13/22 | 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: **06/02/22 09:28**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | | 65.7 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | | 63.1 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/02/22 09:28**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.136 | 0.0100 | mg/L | 1 | BFF0222 | 06/08/22 | 06/13/22 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/02/22 09:28**

| 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

SB03@3-4'
2206059-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| | | | | | | | | |
|----------|--------|--------|-----------|---|---------|----------|----------|-----------|
| Arsenic | 2.89 | 0.237 | mg/kg dry | 1 | BFF0425 | 06/15/22 | 06/17/22 | EPA 6020B |
| Barium | 144 | 0.473 | " | " | " | " | " | " |
| Cadmium | ND | 0.237 | " | " | " | " | " | " |
| Copper | 7.39 | 0.473 | " | " | " | " | " | " |
| Lead | 6.25 | 0.237 | " | " | " | " | " | " |
| Nickel | 7.97 | 0.473 | " | " | " | " | " | " |
| Selenium | 0.647 | 0.308 | " | " | " | " | " | " |
| Silver | 0.0417 | 0.0237 | " | " | " | " | " | " |
| Zinc | 28.2 | 0.473 | " | " | " | " | " | " |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/02/22 09:28**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BFF0340 | 06/13/22 | 06/13/22 | EPA 7196A | |

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

Date Sampled: **06/02/22 09:28**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 1090 | 0.0592 | mg/L dry | 1 | BFF0323 | 06/13/22 | 06/15/22 | EPA 6020B | |
| Magnesium | 186 | 0.0592 | " | " | " | " | " | " | |
| Sodium | 74.0 | 0.0592 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **06/02/22 09:28**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.545 | 0.00100 | units | 1 | BFF0430 | 06/16/22 | 06/16/22 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/22 09:28**

| 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

SB03@3-4'
2206059-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

| | | | | | | | |
|----------|------|---|---|---------|----------|----------|-------------|
| % Solids | 84.5 | % | 1 | BFF0223 | 06/08/22 | 06/09/22 | Calculation |
|----------|------|---|---|---------|----------|----------|-------------|

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/02/22 09:28**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.564 | 0.0100 | mmhos/cm | 1 | BFF0325 | 06/13/22 | 06/14/22 | EPA 120.1 | |

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

Date Sampled: **06/02/22 09:28**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.49 | | pH Units | 1 | BFF0326 | 06/13/22 | 06/14/22 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

SB04@3-4'
2206059-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/22 10:23**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Benzene | ND | 0.0020 | mg/kg | 1 | BFF0081 | 06/03/22 | 06/04/22 | 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: **06/02/22 10:23**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 89.4 % | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 92.6 % | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 90.1 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/22 10:23**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BFF0083 | 06/03/22 | 06/04/22 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **06/02/22 10:23**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | |
| Surrogate: o-Terphenyl | | 115 % | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

SB04@3-4'
2206059-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/02/22 10:23**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BFF0235 | 06/09/22 | 06/13/22 | 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: **06/02/22 10:23**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | | 57.2 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | | 56.9 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/02/22 10:23**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.103 | 0.0100 | mg/L | 1 | BFF0222 | 06/08/22 | 06/13/22 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/02/22 10:23**

| 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

SB04@3-4'
2206059-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| | | | | | | | | |
|----------|-------|--------|-----------|---|---------|----------|----------|-----------|
| Arsenic | 2.36 | 0.231 | mg/kg dry | 1 | BFF0425 | 06/15/22 | 06/17/22 | EPA 6020B |
| Barium | 75.4 | 0.462 | " | " | " | " | " | " |
| Cadmium | ND | 0.231 | " | " | " | " | " | " |
| Copper | 5.49 | 0.462 | " | " | " | " | " | " |
| Lead | 4.28 | 0.231 | " | " | " | " | " | " |
| Nickel | 6.96 | 0.462 | " | " | " | " | " | " |
| Selenium | 0.520 | 0.300 | " | " | " | " | " | " |
| Silver | ND | 0.0231 | " | " | " | " | " | " |
| Zinc | 22.3 | 0.462 | " | " | " | " | " | " |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/02/22 10:23**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BFF0340 | 06/13/22 | 06/13/22 | EPA 7196A | |

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

Date Sampled: **06/02/22 10:23**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 1010 | 0.0577 | mg/L dry | 1 | BFF0323 | 06/13/22 | 06/15/22 | EPA 6020B | |
| Magnesium | 153 | 0.0577 | " | " | " | " | " | " | |
| Sodium | 37.6 | 0.0577 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **06/02/22 10:23**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.291 | 0.00100 | units | 1 | BFF0430 | 06/16/22 | 06/16/22 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

SB04@3-4'
2206059-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/22 10:23**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | | | | | | | | |
| % Solids | 86.7 | | | % | 1 | BFF0223 | 06/08/22 | 06/09/22 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/02/22 10:23**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Specific Conductance (EC) | 0.471 | 0.0100 | | mmhos/cm | 1 | BFF0325 | 06/13/22 | 06/14/22 | EPA 120.1 | |

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

Date Sampled: **06/02/22 10:23**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| pH | 8.64 | | | pH Units | 1 | BFF0326 | 06/13/22 | 06/14/22 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

SB05@3-4'
2206059-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/22 10:16**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | BFF0081 | 06/03/22 | 06/04/22 | 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: **06/02/22 10:16**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | | 89.6 % | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 93.3 % | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 90.2 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/22 10:16**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BFF0083 | 06/03/22 | 06/04/22 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **06/02/22 10:16**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | | 119 % | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

SB05@3-4'
2206059-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/02/22 10:16**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BFF0235 | 06/09/22 | 06/13/22 | 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: **06/02/22 10:16**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | | 68.9 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | | 63.6 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/02/22 10:16**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.120 | 0.0100 | mg/L | 1 | BFF0222 | 06/08/22 | 06/13/22 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **06/02/22 10:16**

| 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

SB05@3-4'
2206059-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| | | | | | | | | |
|----------|--------|--------|-----------|---|---------|----------|----------|-----------|
| Arsenic | 4.22 | 0.225 | mg/kg dry | 1 | BFF0425 | 06/15/22 | 06/17/22 | EPA 6020B |
| Barium | 151 | 0.451 | " | " | " | " | " | " |
| Cadmium | 0.262 | 0.225 | " | " | " | " | " | " |
| Copper | 7.87 | 0.451 | " | " | " | " | " | " |
| Lead | 5.42 | 0.225 | " | " | " | " | " | " |
| Nickel | 10.3 | 0.451 | " | " | " | " | " | " |
| Selenium | 0.537 | 0.293 | " | " | " | " | " | " |
| Silver | 0.0543 | 0.0225 | " | " | " | " | " | " |
| Zinc | 25.0 | 0.451 | " | " | " | " | " | " |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/02/22 10:16**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BFF0340 | 06/13/22 | 06/13/22 | EPA 7196A | |

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

Date Sampled: **06/02/22 10:16**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 2520 | 0.0564 | mg/L dry | 1 | BFF0323 | 06/13/22 | 06/15/22 | EPA 6020B | |
| Magnesium | 193 | 0.0564 | " | " | " | " | " | " | |
| Sodium | 27.2 | 0.0564 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **06/02/22 10:16**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.141 | 0.00100 | units | 1 | BFF0430 | 06/16/22 | 06/16/22 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/22 10:16**

| 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

SB05@3-4'
2206059-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

| | | | | | | | |
|----------|------|---|---|---------|----------|----------|-------------|
| % Solids | 88.7 | % | 1 | BFF0295 | 06/10/22 | 06/10/22 | Calculation |
|----------|------|---|---|---------|----------|----------|-------------|

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/02/22 10:16**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.401 | 0.0100 | mmhos/cm | 1 | BFF0325 | 06/13/22 | 06/14/22 | EPA 120.1 | |

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

Date Sampled: **06/02/22 10:16**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.65 | | pH Units | 1 | BFF0326 | 06/13/22 | 06/14/22 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

BKG02@3-4'
2206059-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/02/22 10:32**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 2.46 | 0.220 | mg/kg dry | 1 | BFF0795 | 06/30/22 | 07/02/22 | EPA 6020B | |
| Barium | 289 | 0.440 | " | " | " | " | " | " | |
| Cadmium | ND | 0.220 | " | " | " | " | " | " | |
| Copper | 4.34 | 0.440 | " | " | " | " | " | " | |
| Lead | 4.70 | 0.220 | " | " | " | " | " | " | |
| Nickel | 5.34 | 0.440 | " | " | " | " | " | " | |
| Selenium | 0.590 | 0.286 | " | " | " | " | " | " | |
| Silver | 0.0276 | 0.0220 | " | " | " | " | " | " | |
| Zinc | 20.7 | 0.440 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/02/22 10:32**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BFG0029 | 07/05/22 | 07/05/22 | EPA 7196A | I-04 |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/22 10:32**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | Units | | | | | | |
| % Solids | 90.9 | | % | 1 | BFF0788 | 06/30/22 | 06/30/22 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

BKG02@7-8'
2206059-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/02/22 10:59**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------|--------------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 2.18 | 0.232 | mg/kg dry | 1 | BFF0795 | 06/30/22 | 07/03/22 | EPA 6020B | |
| Barium | 37.7 | 0.465 | " | " | " | " | " | " | |
| Cadmium | ND | 0.232 | " | " | " | " | " | " | |
| Copper | 4.36 | 0.465 | " | " | " | " | " | " | |
| Lead | 4.20 | 0.232 | " | " | " | " | " | " | |
| Nickel | 5.95 | 0.465 | " | " | " | " | " | " | |
| Selenium | 0.381 | 0.302 | " | " | " | " | " | " | |
| Silver | ND | 0.0232 | " | " | " | " | " | " | |
| Zinc | 18.6 | 0.465 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/02/22 10:59**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BFG0029 | 07/05/22 | 07/05/22 | EPA 7196A | I-04 |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/22 10:59**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------|-------------|-----------|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | Units | | | | | | |
| % Solids | 86.1 | | % | 1 | BFF0788 | 06/30/22 | 06/30/22 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

BKG03@3-4'
2206059-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/02/22 11:03**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------|--------------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 2.10 | 0.218 | mg/kg dry | 1 | BFF0795 | 06/30/22 | 07/03/22 | EPA 6020B | |
| Barium | 28.6 | 0.435 | " | " | " | " | " | " | |
| Cadmium | ND | 0.218 | " | " | " | " | " | " | |
| Copper | 3.62 | 0.435 | " | " | " | " | " | " | |
| Lead | 3.96 | 0.218 | " | " | " | " | " | " | |
| Nickel | 4.87 | 0.435 | " | " | " | " | " | " | |
| Selenium | 0.435 | 0.283 | " | " | " | " | " | " | |
| Silver | ND | 0.0218 | " | " | " | " | " | " | |
| Zinc | 17.2 | 0.435 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/02/22 11:03**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BFG0029 | 07/05/22 | 07/05/22 | EPA 7196A | I-04 |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/22 11:03**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------|-------------|-----------|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | Units | | | | | | |
| % Solids | 91.9 | | % | 1 | BFF0788 | 06/30/22 | 06/30/22 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

BKG03@7-8'
2206059-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/02/22 11:28**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 2.99 | 0.223 | mg/kg dry | 1 | BFF0763 | 06/29/22 | 07/02/22 | EPA 6020B | |
| Barium | 34.3 | 0.445 | " | " | " | " | " | " | |
| Cadmium | ND | 0.223 | " | " | " | " | " | " | |
| Copper | 5.03 | 0.445 | " | " | " | " | " | " | |
| Lead | 3.55 | 0.223 | " | " | " | " | " | " | |
| Nickel | 5.60 | 0.445 | " | " | " | " | " | " | |
| Selenium | 0.470 | 0.289 | " | " | " | " | " | " | |
| Silver | ND | 0.0223 | " | " | " | " | " | " | |
| Zinc | 17.3 | 0.445 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/02/22 11:28**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BFG0029 | 07/05/22 | 07/05/22 | EPA 7196A | I-04 |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/22 11:28**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | Units | | | | | | |
| % Solids | 89.8 | | % | 1 | BFF0788 | 06/30/22 | 06/30/22 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

BKG04@3-4'
2206059-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/02/22 10:45**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 2.14 | 0.223 | mg/kg dry | 1 | BFF0795 | 06/30/22 | 07/03/22 | EPA 6020B | |
| Barium | 32.6 | 0.446 | " | " | " | " | " | " | |
| Cadmium | ND | 0.223 | " | " | " | " | " | " | |
| Copper | 4.27 | 0.446 | " | " | " | " | " | " | |
| Lead | 4.37 | 0.223 | " | " | " | " | " | " | |
| Nickel | 5.29 | 0.446 | " | " | " | " | " | " | |
| Selenium | 0.476 | 0.290 | " | " | " | " | " | " | |
| Silver | 0.0228 | 0.0223 | " | " | " | " | " | " | |
| Zinc | 20.0 | 0.446 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/02/22 10:45**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BFG0029 | 07/05/22 | 07/05/22 | EPA 7196A | I-04 |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/22 10:45**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | Units | | | | | | |
| % Solids | 89.6 | | % | 1 | BFF0788 | 06/30/22 | 06/30/22 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

BKG04@7-8'
2206059-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/02/22 11:11**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 2.35 | 0.229 | mg/kg dry | 1 | BFF0795 | 06/30/22 | 07/03/22 | EPA 6020B | |
| Barium | 45.9 | 0.458 | " | " | " | " | " | " | |
| Cadmium | ND | 0.229 | " | " | " | " | " | " | |
| Copper | 4.68 | 0.458 | " | " | " | " | " | " | |
| Lead | 4.60 | 0.229 | " | " | " | " | " | " | |
| Nickel | 5.13 | 0.458 | " | " | " | " | " | " | |
| Selenium | 0.398 | 0.298 | " | " | " | " | " | " | |
| Silver | ND | 0.0229 | " | " | " | " | " | " | |
| Zinc | 20.4 | 0.458 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/02/22 11:11**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BFG0029 | 07/05/22 | 07/05/22 | EPA 7196A | I-04 |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/22 11:11**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | Units | | | | | | |
| % Solids | 87.3 | | % | 1 | BFF0788 | 06/30/22 | 06/30/22 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

BKG05@3-4'
2206059-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/02/22 11:38**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 2.48 | 0.223 | mg/kg dry | 1 | BFF0795 | 06/30/22 | 07/03/22 | EPA 6020B | |
| Barium | 84.6 | 0.447 | " | " | " | " | " | " | |
| Cadmium | ND | 0.223 | " | " | " | " | " | " | |
| Copper | 4.57 | 0.447 | " | " | " | " | " | " | |
| Lead | 5.21 | 0.223 | " | " | " | " | " | " | |
| Nickel | 6.43 | 0.447 | " | " | " | " | " | " | |
| Selenium | 0.547 | 0.290 | " | " | " | " | " | " | |
| Silver | 0.0224 | 0.0223 | " | " | " | " | " | " | |
| Zinc | 21.3 | 0.447 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/02/22 11:38**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BFG0029 | 07/05/22 | 07/05/22 | EPA 7196A | I-04 |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/22 11:38**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | Units | | | | | | |
| % Solids | 89.5 | | % | 1 | BFF0788 | 06/30/22 | 06/30/22 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

BKG05@7-8'
2206059-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/02/22 12:01**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 3.18 | 0.237 | mg/kg dry | 1 | BFF0795 | 06/30/22 | 07/03/22 | EPA 6020B | |
| Barium | 83.0 | 0.473 | " | " | " | " | " | " | |
| Cadmium | ND | 0.237 | " | " | " | " | " | " | |
| Copper | 3.72 | 0.473 | " | " | " | " | " | " | |
| Lead | 5.34 | 0.237 | " | " | " | " | " | " | |
| Nickel | 5.45 | 0.473 | " | " | " | " | " | " | |
| Selenium | 0.673 | 0.308 | " | " | " | " | " | " | |
| Silver | ND | 0.0237 | " | " | " | " | " | " | |
| Zinc | 33.0 | 0.473 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/02/22 12:01**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BFG0029 | 07/05/22 | 07/05/22 | EPA 7196A | I-04 |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/22 12:01**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | Units | | | | | | |
| % Solids | 84.5 | | % | 1 | BFF0788 | 06/30/22 | 06/30/22 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

BKG06@3-4'
2206059-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/02/22 12:26**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------|--------------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 2.00 | 0.222 | mg/kg dry | 1 | BFF0795 | 06/30/22 | 07/03/22 | EPA 6020B | |
| Barium | 56.3 | 0.444 | " | " | " | " | " | " | |
| Cadmium | ND | 0.222 | " | " | " | " | " | " | |
| Copper | 3.89 | 0.444 | " | " | " | " | " | " | |
| Lead | 3.88 | 0.222 | " | " | " | " | " | " | |
| Nickel | 4.56 | 0.444 | " | " | " | " | " | " | |
| Selenium | 0.419 | 0.288 | " | " | " | " | " | " | |
| Silver | ND | 0.0222 | " | " | " | " | " | " | |
| Zinc | 17.1 | 0.444 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/02/22 12:26**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BFG0029 | 07/05/22 | 07/05/22 | EPA 7196A | I-04 |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/22 12:26**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------|-------------|-----------|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | Units | | | | | | |
| % Solids | 90.1 | | % | 1 | BFF0788 | 06/30/22 | 06/30/22 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

BKG06@7-8'
2206059-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/02/22 12:50**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 2.67 | 0.248 | mg/kg dry | 1 | BFF0795 | 06/30/22 | 07/03/22 | EPA 6020B | |
| Barium | 27.6 | 0.496 | " | " | " | " | " | " | |
| Cadmium | ND | 0.248 | " | " | " | " | " | " | |
| Copper | 4.30 | 0.496 | " | " | " | " | " | " | |
| Lead | 6.12 | 0.248 | " | " | " | " | " | " | |
| Nickel | 5.26 | 0.496 | " | " | " | " | " | " | |
| Selenium | 0.722 | 0.322 | " | " | " | " | " | " | |
| Silver | ND | 0.0248 | " | " | " | " | " | " | |
| Zinc | 46.1 | 0.496 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/02/22 12:50**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BFG0029 | 07/05/22 | 07/05/22 | EPA 7196A | I-04 |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/22 12:50**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | Units | | | | | | |
| % Solids | 80.7 | | % | 1 | BFF0788 | 06/30/22 | 06/30/22 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFF0081 - EPA 5030 Soil MS

Blank (BFF0081-BLK1)

Prepared & Analyzed: 06/03/22

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| 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 | " | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0439 | | " | 0.0400 | | 110 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0365 | | " | 0.0400 | | 91.3 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0371 | | " | 0.0400 | | 92.7 | 50-150 | | | |

LCS (BFF0081-BS1)

Prepared & Analyzed: 06/03/22

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | 0.141 | 0.0020 | mg/kg | 0.125 | | 112 | 70-130 | | | |
| Toluene | 0.0950 | 0.0050 | " | 0.125 | | 76.0 | 70-130 | | | |
| Ethylbenzene | 0.157 | 0.0050 | " | 0.125 | | 125 | 70-130 | | | |
| m,p-Xylene | 0.278 | 0.010 | " | 0.250 | | 111 | 70-130 | | | |
| o-Xylene | 0.134 | 0.0050 | " | 0.125 | | 107 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.154 | 0.0050 | " | 0.125 | | 123 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.155 | 0.0050 | " | 0.125 | | 124 | 70-130 | | | |
| Naphthalene | 0.143 | 0.0038 | " | 0.125 | | 114 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0440 | | " | 0.0400 | | 110 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0376 | | " | 0.0400 | | 94.1 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0365 | | " | 0.0400 | | 91.2 | 50-150 | | | |

Matrix Spike (BFF0081-MS1)

Source: 2206012-01

Prepared & Analyzed: 06/03/22

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|----|------|--------|--|--|--|
| Benzene | 0.139 | 0.0020 | mg/kg | 0.125 | ND | 111 | 70-130 | | | |
| Toluene | 0.0944 | 0.0050 | " | 0.125 | ND | 75.5 | 70-130 | | | |
| Ethylbenzene | 0.152 | 0.0050 | " | 0.125 | ND | 122 | 70-130 | | | |
| m,p-Xylene | 0.270 | 0.010 | " | 0.250 | ND | 108 | 70-130 | | | |
| o-Xylene | 0.132 | 0.0050 | " | 0.125 | ND | 106 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.154 | 0.0050 | " | 0.125 | ND | 123 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.154 | 0.0050 | " | 0.125 | ND | 123 | 70-130 | | | |
| Naphthalene | 0.152 | 0.0038 | " | 0.125 | ND | 122 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0454 | | " | 0.0400 | | 113 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0374 | | " | 0.0400 | | 93.6 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0376 | | " | 0.0400 | | 94.0 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BFF0081 - EPA 5030 Soil MS

| Matrix Spike Dup (BFF0081-MSD1) | | Source: 2206012-01 | | | Prepared & Analyzed: 06/03/22 | | | | | |
|----------------------------------|--------|--------------------|-------|--------|-------------------------------|------|--------|--------|----|--|
| Benzene | 0.137 | 0.0020 | mg/kg | 0.125 | ND | 110 | 70-130 | 1.39 | 30 | |
| Toluene | 0.0943 | 0.0050 | " | 0.125 | ND | 75.4 | 70-130 | 0.0954 | 30 | |
| Ethylbenzene | 0.156 | 0.0050 | " | 0.125 | ND | 124 | 70-130 | 2.16 | 30 | |
| m,p-Xylene | 0.278 | 0.010 | " | 0.250 | ND | 111 | 70-130 | 3.14 | 30 | |
| o-Xylene | 0.133 | 0.0050 | " | 0.125 | ND | 106 | 70-130 | 0.634 | 30 | |
| 1,2,4-Trimethylbenzene | 0.158 | 0.0050 | " | 0.125 | ND | 126 | 70-130 | 2.39 | 30 | |
| 1,3,5-Trimethylbenzene | 0.160 | 0.0050 | " | 0.125 | ND | 128 | 70-130 | 3.69 | 30 | |
| Naphthalene | 0.159 | 0.0038 | " | 0.125 | ND | 128 | 70-130 | 4.56 | 30 | |
| <hr/> | | | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0392 | | " | 0.0400 | | 97.9 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0375 | | " | 0.0400 | | 93.8 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0372 | | " | 0.0400 | | 93.0 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFF0083 - EPA 3550A

Blank (BFF0083-BLK1)

Prepared & Analyzed: 06/03/22

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

LCS (BFF0083-BS1)

Prepared & Analyzed: 06/03/22

| | | | | | | |
|---------------|-----|----|-------|-----|-----|--------|
| C10-C28 (DRO) | 560 | 50 | mg/kg | 500 | 112 | 70-130 |
|---------------|-----|----|-------|-----|-----|--------|

Matrix Spike (BFF0083-MS1)

Source: 2206012-01

Prepared & Analyzed: 06/03/22

| | | | | | | | |
|---------------|-----|----|-------|-----|------|-----|--------|
| C10-C28 (DRO) | 537 | 50 | mg/kg | 500 | 29.0 | 102 | 70-130 |
|---------------|-----|----|-------|-----|------|-----|--------|

Matrix Spike Dup (BFF0083-MSD1)

Source: 2206012-01

Prepared & Analyzed: 06/03/22

| | | | | | | | | | |
|---------------|-----|----|-------|-----|------|-----|--------|-------|----|
| C10-C28 (DRO) | 539 | 50 | mg/kg | 500 | 29.0 | 102 | 70-130 | 0.319 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFF0235 - EPA 5030 Soil MS

Blank (BFF0235-BLK1)

Prepared: 06/09/22 Analyzed: 06/12/22

| | | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|--|------|--------|--|--|--|
| 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 | 0.0325 | | " | 0.0333 | | 97.5 | 40-150 | | | |
| Surrogate: Fluoranthene-d10 | 0.0298 | | " | 0.0333 | | 89.5 | 40-150 | | | |

LCS (BFF0235-BS1)

Prepared: 06/09/22 Analyzed: 06/12/22

| | | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|--|------|--------|--|--|--|
| Acenaphthene | 0.0306 | 0.00500 | mg/kg | 0.0333 | | 91.9 | 31-137 | | | |
| Anthracene | 0.0324 | 0.00500 | " | 0.0333 | | 97.2 | 30-120 | | | |
| Benzo (a) anthracene | 0.0281 | 0.00500 | " | 0.0333 | | 84.2 | 30-120 | | | |
| Benzo (a) pyrene | 0.0302 | 0.00500 | " | 0.0333 | | 90.6 | 30-120 | | | |
| Benzo (b) fluoranthene | 0.0310 | 0.00500 | " | 0.0333 | | 93.1 | 30-120 | | | |
| Benzo (k) fluoranthene | 0.0353 | 0.00500 | " | 0.0333 | | 106 | 30-120 | | | |
| Chrysene | 0.0307 | 0.00500 | " | 0.0333 | | 92.1 | 30-120 | | | |
| Dibenz (a,h) anthracene | 0.0272 | 0.00500 | " | 0.0333 | | 81.5 | 30-120 | | | |
| Fluoranthene | 0.0312 | 0.00500 | " | 0.0333 | | 93.7 | 30-120 | | | |
| Fluorene | 0.0297 | 0.00500 | " | 0.0333 | | 89.1 | 30-120 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0170 | 0.00500 | " | 0.0333 | | 51.1 | 30-120 | | | |
| Pyrene | 0.0292 | 0.00500 | " | 0.0333 | | 87.7 | 35-142 | | | |
| 1-Methylnaphthalene | 0.0232 | 0.00500 | " | 0.0333 | | 69.6 | 35-142 | | | |
| 2-Methylnaphthalene | 0.0354 | 0.00500 | " | 0.0333 | | 106 | 35-142 | | | |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0310 | | " | 0.0333 | | 92.9 | 40-150 | | | |
| Surrogate: Fluoranthene-d10 | 0.0299 | | " | 0.0333 | | 89.6 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFF0235 - EPA 5030 Soil MS

Matrix Spike (BFF0235-MS1)

Source: 2206044-01

Prepared: 06/09/22 Analyzed: 06/12/22

| | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|----|------|--------|--|--|
| Acenaphthene | 0.0178 | 0.00500 | mg/kg | 0.0333 | ND | 53.5 | 31-137 | | |
| Anthracene | 0.0167 | 0.00500 | " | 0.0333 | ND | 50.2 | 30-120 | | |
| Benzo (a) anthracene | 0.0149 | 0.00500 | " | 0.0333 | ND | 44.8 | 30-120 | | |
| Benzo (a) pyrene | 0.0145 | 0.00500 | " | 0.0333 | ND | 43.5 | 30-120 | | |
| Benzo (b) fluoranthene | 0.0150 | 0.00500 | " | 0.0333 | ND | 45.0 | 30-120 | | |
| Benzo (k) fluoranthene | 0.0172 | 0.00500 | " | 0.0333 | ND | 51.6 | 30-120 | | |
| Chrysene | 0.0160 | 0.00500 | " | 0.0333 | ND | 48.1 | 30-120 | | |
| Dibenz (a,h) anthracene | 0.0165 | 0.00500 | " | 0.0333 | ND | 49.5 | 30-120 | | |
| Fluoranthene | 0.0172 | 0.00500 | " | 0.0333 | ND | 51.6 | 30-120 | | |
| Fluorene | 0.0187 | 0.00500 | " | 0.0333 | ND | 56.1 | 30-120 | | |
| Indeno (1,2,3-cd) pyrene | 0.0148 | 0.00500 | " | 0.0333 | ND | 44.3 | 30-120 | | |
| Pyrene | 0.0178 | 0.00500 | " | 0.0333 | ND | 53.6 | 35-142 | | |
| 1-Methylnaphthalene | 0.0182 | 0.00500 | " | 0.0333 | ND | 54.5 | 15-130 | | |
| 2-Methylnaphthalene | 0.0190 | 0.00500 | " | 0.0333 | ND | 57.0 | 15-130 | | |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0182 | | " | 0.0333 | | 54.5 | 40-150 | | |
| Surrogate: Fluoranthene-d10 | 0.0177 | | " | 0.0333 | | 53.1 | 40-150 | | |

Matrix Spike Dup (BFF0235-MSD1)

Source: 2206044-01

Prepared: 06/09/22 Analyzed: 06/12/22

| | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|----|------|--------|-------|----|
| Acenaphthene | 0.0188 | 0.00500 | mg/kg | 0.0333 | ND | 56.5 | 31-137 | 5.33 | 30 |
| Anthracene | 0.0190 | 0.00500 | " | 0.0333 | ND | 56.9 | 30-120 | 12.5 | 30 |
| Benzo (a) anthracene | 0.0172 | 0.00500 | " | 0.0333 | ND | 51.6 | 30-120 | 14.2 | 30 |
| Benzo (a) pyrene | 0.0171 | 0.00500 | " | 0.0333 | ND | 51.2 | 30-120 | 16.3 | 30 |
| Benzo (b) fluoranthene | 0.0172 | 0.00500 | " | 0.0333 | ND | 51.6 | 30-120 | 13.7 | 30 |
| Benzo (k) fluoranthene | 0.0192 | 0.00500 | " | 0.0333 | ND | 57.6 | 30-120 | 11.1 | 30 |
| Chrysene | 0.0183 | 0.00500 | " | 0.0333 | ND | 54.8 | 30-120 | 13.0 | 30 |
| Dibenz (a,h) anthracene | 0.0144 | 0.00500 | " | 0.0333 | ND | 43.3 | 30-120 | 13.3 | 30 |
| Fluoranthene | 0.0187 | 0.00500 | " | 0.0333 | ND | 56.0 | 30-120 | 8.13 | 30 |
| Fluorene | 0.0186 | 0.00500 | " | 0.0333 | ND | 55.7 | 30-120 | 0.708 | 30 |
| Indeno (1,2,3-cd) pyrene | 0.0136 | 0.00500 | " | 0.0333 | ND | 40.9 | 30-120 | 8.05 | 30 |
| Pyrene | 0.0192 | 0.00500 | " | 0.0333 | ND | 57.6 | 35-142 | 7.32 | 30 |
| 1-Methylnaphthalene | 0.0192 | 0.00500 | " | 0.0333 | ND | 57.6 | 15-130 | 5.68 | 50 |
| 2-Methylnaphthalene | 0.0217 | 0.00500 | " | 0.0333 | ND | 65.1 | 15-130 | 13.1 | 50 |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0199 | | " | 0.0333 | | 59.7 | 40-150 | | |
| Surrogate: Fluoranthene-d10 | 0.0188 | | " | 0.0333 | | 56.5 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

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

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

Batch BFF0222 - EPA 3050B

Blank (BFF0222-BLK1)

Prepared: 06/08/22 Analyzed: 06/13/22

Boron ND 0.0100 mg/L

LCS (BFF0222-BS1)

Prepared: 06/08/22 Analyzed: 06/13/22

Boron 5.85 0.0100 mg/L 5.00 117 80-120

Duplicate (BFF0222-DUP1)

Source: 2206044-01

Prepared: 06/08/22 Analyzed: 06/13/22

Boron 0.415 0.0100 mg/L 0.415 0.0875 20

Matrix Spike (BFF0222-MS1)

Source: 2206044-01

Prepared: 06/08/22 Analyzed: 06/13/22

Boron 6.04 0.0100 mg/L 5.00 0.415 112 75-125

Matrix Spike Dup (BFF0222-MSD1)

Source: 2206044-01

Prepared: 06/08/22 Analyzed: 06/13/22

Boron 6.09 0.0100 mg/L 5.00 0.415 114 75-125 0.928 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFF0425 - EPA 3050B

Blank (BFF0425-BLK1)

Prepared: 06/15/22 Analyzed: 06/16/22

| | | | |
|----------|----|--------|-----------|
| 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 (BFF0425-BS1)

Prepared: 06/15/22 Analyzed: 06/16/22

| | | | | | | |
|----------|------|--------|-----------|------|------|--------|
| Arsenic | 47.9 | 0.200 | mg/kg wet | 40.0 | 120 | 80-120 |
| Barium | 44.4 | 0.400 | " | 40.0 | 111 | 80-120 |
| Cadmium | 2.12 | 0.200 | " | 2.00 | 106 | 80-120 |
| Copper | 47.5 | 0.400 | " | 40.0 | 119 | 80-120 |
| Lead | 19.6 | 0.200 | " | 20.0 | 98.2 | 80-120 |
| Nickel | 46.2 | 0.400 | " | 40.0 | 116 | 80-120 |
| Selenium | 3.95 | 0.260 | " | 4.00 | 98.7 | 80-120 |
| Silver | 2.08 | 0.0200 | " | 2.00 | 104 | 80-120 |
| Zinc | 44.6 | 0.400 | " | 40.0 | 111 | 80-120 |

Duplicate (BFF0425-DUP1)

Source: 2206059-01

Prepared: 06/15/22 Analyzed: 06/16/22

| | | | | | | |
|----------|--------|--------|-----------|--------|------|----|
| Arsenic | 2.97 | 0.236 | mg/kg dry | 3.37 | 12.5 | 20 |
| Barium | 112 | 0.473 | " | 94.2 | 16.9 | 20 |
| Cadmium | 0.147 | 0.236 | " | 0.161 | 9.20 | 20 |
| Copper | 6.88 | 0.473 | " | 7.99 | 15.0 | 20 |
| Lead | 5.37 | 0.236 | " | 5.32 | 1.04 | 20 |
| Nickel | 8.41 | 0.473 | " | 9.18 | 8.79 | 20 |
| Selenium | 0.496 | 0.307 | " | 0.530 | 6.72 | 20 |
| Silver | 0.0282 | 0.0236 | " | 0.0314 | 10.9 | 20 |
| Zinc | 23.8 | 0.473 | " | 27.8 | 15.6 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFF0425 - EPA 3050B

| Matrix Spike (BFF0425-MS1) | | Source: 2206059-01 | | | Prepared: 06/15/22 Analyzed: 06/16/22 | | | | | |
|----------------------------|------|--------------------|-----------|------|---------------------------------------|------|--------|--|--|-------|
| Arsenic | 57.6 | 0.236 | mg/kg dry | 47.3 | 3.37 | 115 | 75-125 | | | |
| Barium | 191 | 0.473 | " | 47.3 | 94.2 | 205 | 75-125 | | | QM-02 |
| Cadmium | 2.66 | 0.236 | " | 2.36 | 0.161 | 106 | 75-125 | | | |
| Copper | 64.3 | 0.473 | " | 47.3 | 7.99 | 119 | 75-125 | | | |
| Lead | 26.5 | 0.236 | " | 23.6 | 5.32 | 89.8 | 75-125 | | | |
| Nickel | 63.8 | 0.473 | " | 47.3 | 9.18 | 115 | 75-125 | | | |
| Selenium | 4.33 | 0.307 | " | 4.73 | 0.530 | 80.5 | 75-125 | | | |
| Silver | 2.41 | 0.0236 | " | 2.36 | 0.0314 | 101 | 75-125 | | | |
| Zinc | 87.7 | 0.473 | " | 47.3 | 27.8 | 127 | 75-125 | | | QM-05 |

| Matrix Spike Dup (BFF0425-MSD1) | | Source: 2206059-01 | | | Prepared: 06/15/22 Analyzed: 06/16/22 | | | | | |
|---------------------------------|------|--------------------|-----------|------|---------------------------------------|------|--------|-------|----|-------|
| Arsenic | 57.5 | 0.236 | mg/kg dry | 47.3 | 3.37 | 114 | 75-125 | 0.196 | 25 | |
| Barium | 204 | 0.473 | " | 47.3 | 94.2 | 232 | 75-125 | 6.55 | 25 | QM-02 |
| Cadmium | 2.62 | 0.236 | " | 2.36 | 0.161 | 104 | 75-125 | 1.84 | 25 | |
| Copper | 62.0 | 0.473 | " | 47.3 | 7.99 | 114 | 75-125 | 3.77 | 25 | |
| Lead | 27.3 | 0.236 | " | 23.6 | 5.32 | 92.8 | 75-125 | 2.66 | 25 | |
| Nickel | 62.3 | 0.473 | " | 47.3 | 9.18 | 112 | 75-125 | 2.41 | 25 | |
| Selenium | 4.41 | 0.307 | " | 4.73 | 0.530 | 82.0 | 75-125 | 1.65 | 25 | |
| Silver | 2.39 | 0.0236 | " | 2.36 | 0.0314 | 99.7 | 75-125 | 1.08 | 25 | |
| Zinc | 86.8 | 0.473 | " | 47.3 | 27.8 | 125 | 75-125 | 0.997 | 25 | |

Batch BFF0763 - EPA 3050B

| Blank (BFF0763-BLK1) | | Prepared: 06/29/22 Analyzed: 07/02/22 | | | | | | | | |
|----------------------|----|---------------------------------------|-----------|--|--|--|--|--|--|--|
| 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 | " | | | | | | | |

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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFF0763 - EPA 3050B

LCS (BFF0763-BS1)

Prepared: 06/29/22 Analyzed: 07/02/22

| | | | | | | | | | | |
|----------|------|--------|-----------|------|--|------|--------|--|--|--|
| Arsenic | 45.2 | 0.200 | mg/kg wet | 40.0 | | 113 | 80-120 | | | |
| Barium | 44.0 | 0.400 | " | 40.0 | | 110 | 80-120 | | | |
| Cadmium | 2.20 | 0.200 | " | 2.00 | | 110 | 80-120 | | | |
| Copper | 44.6 | 0.400 | " | 40.0 | | 112 | 80-120 | | | |
| Lead | 20.0 | 0.200 | " | 20.0 | | 99.8 | 80-120 | | | |
| Nickel | 43.4 | 0.400 | " | 40.0 | | 109 | 80-120 | | | |
| Selenium | 4.24 | 0.260 | " | 4.00 | | 106 | 80-120 | | | |
| Silver | 2.16 | 0.0200 | " | 2.00 | | 108 | 80-120 | | | |
| Zinc | 45.8 | 0.400 | " | 40.0 | | 115 | 80-120 | | | |

Duplicate (BFF0763-DUP1)

Source: 2206059-09

Prepared: 06/29/22 Analyzed: 07/02/22

| | | | | | | | | | | |
|----------|--------|--------|-----------|--|--------|--|--|-------|----|-------|
| Arsenic | 2.62 | 0.223 | mg/kg dry | | 2.99 | | | 12.9 | 20 | |
| Barium | 25.5 | 0.445 | " | | 34.3 | | | 29.4 | 20 | QM-02 |
| Cadmium | 0.106 | 0.223 | " | | 0.120 | | | 12.3 | 20 | |
| Copper | 4.64 | 0.445 | " | | 5.03 | | | 8.21 | 20 | |
| Lead | 3.57 | 0.223 | " | | 3.55 | | | 0.464 | 20 | |
| Nickel | 4.71 | 0.445 | " | | 5.60 | | | 17.2 | 20 | |
| Selenium | 0.430 | 0.289 | " | | 0.470 | | | 8.99 | 20 | |
| Silver | 0.0159 | 0.0223 | " | | 0.0164 | | | 2.98 | 20 | |
| Zinc | 17.0 | 0.445 | " | | 17.3 | | | 1.60 | 20 | |

Matrix Spike (BFF0763-MS1)

Source: 2206059-09

Prepared: 06/29/22 Analyzed: 07/02/22

| | | | | | | | | | | |
|----------|------|--------|-----------|------|--------|------|--------|--|--|-------|
| Arsenic | 47.6 | 0.223 | mg/kg dry | 44.5 | 2.99 | 100 | 75-125 | | | |
| Barium | 123 | 0.445 | " | 44.5 | 34.3 | 200 | 75-125 | | | QM-02 |
| Cadmium | 2.57 | 0.223 | " | 2.23 | 0.120 | 110 | 75-125 | | | |
| Copper | 51.2 | 0.445 | " | 44.5 | 5.03 | 104 | 75-125 | | | |
| Lead | 25.3 | 0.223 | " | 22.3 | 3.55 | 97.6 | 75-125 | | | |
| Nickel | 53.1 | 0.445 | " | 44.5 | 5.60 | 107 | 75-125 | | | |
| Selenium | 4.36 | 0.289 | " | 4.45 | 0.470 | 87.4 | 75-125 | | | |
| Silver | 2.29 | 0.0223 | " | 2.23 | 0.0164 | 102 | 75-125 | | | |
| Zinc | 65.5 | 0.445 | " | 44.5 | 17.3 | 108 | 75-125 | | | |

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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFF0763 - EPA 3050B

Matrix Spike Dup (BFF0763-MSD1)

Source: 2206059-09

Prepared: 06/29/22 Analyzed: 07/02/22

| | | | | | | | | | | |
|----------|------|--------|-----------|------|--------|------|--------|--------|----|-------|
| Arsenic | 47.6 | 0.223 | mg/kg dry | 44.5 | 2.99 | 100 | 75-125 | 0.0117 | 25 | QM-05 |
| Barium | 68.9 | 0.445 | " | 44.5 | 34.3 | 77.9 | 75-125 | 56.6 | 25 | |
| Cadmium | 2.42 | 0.223 | " | 2.23 | 0.120 | 103 | 75-125 | 6.13 | 25 | |
| Copper | 48.0 | 0.445 | " | 44.5 | 5.03 | 96.5 | 75-125 | 6.51 | 25 | |
| Lead | 23.7 | 0.223 | " | 22.3 | 3.55 | 90.5 | 75-125 | 6.51 | 25 | |
| Nickel | 48.8 | 0.445 | " | 44.5 | 5.60 | 97.0 | 75-125 | 8.50 | 25 | |
| Selenium | 4.20 | 0.289 | " | 4.45 | 0.470 | 83.7 | 75-125 | 3.83 | 25 | |
| Silver | 2.24 | 0.0223 | " | 2.23 | 0.0164 | 99.8 | 75-125 | 2.46 | 25 | |
| Zinc | 61.4 | 0.445 | " | 44.5 | 17.3 | 99.2 | 75-125 | 6.43 | 25 | |

Batch BFF0795 - EPA 3050B

Blank (BFF0795-BLK1)

Prepared: 06/30/22 Analyzed: 07/02/22

| | | | |
|----------|----|--------|-----------|
| 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 (BFF0795-BS1)

Prepared: 06/30/22 Analyzed: 07/02/22

| | | | | | | |
|----------|------|--------|-----------|------|-----|--------|
| Arsenic | 46.4 | 0.200 | mg/kg wet | 40.0 | 116 | 80-120 |
| Barium | 44.3 | 0.400 | " | 40.0 | 111 | 80-120 |
| Cadmium | 2.24 | 0.200 | " | 2.00 | 112 | 80-120 |
| Copper | 43.8 | 0.400 | " | 40.0 | 109 | 80-120 |
| Lead | 21.2 | 0.200 | " | 20.0 | 106 | 80-120 |
| Nickel | 43.4 | 0.400 | " | 40.0 | 108 | 80-120 |
| Selenium | 4.60 | 0.260 | " | 4.00 | 115 | 80-120 |
| Silver | 2.20 | 0.0200 | " | 2.00 | 110 | 80-120 |
| Zinc | 47.2 | 0.400 | " | 40.0 | 118 | 80-120 |

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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFF0795 - EPA 3050B

| Duplicate (BFF0795-DUP1) | | Source: 2206059-06 | | | Prepared: 06/30/22 Analyzed: 07/02/22 | | | | | | |
|--------------------------|--------|--------------------|-----------|--|---------------------------------------|--|--|-------|----|--|-------|
| Arsenic | 2.35 | 0.220 | mg/kg dry | | 2.46 | | | 4.54 | 20 | | |
| Barium | 102 | 0.440 | " | | 289 | | | 95.4 | 20 | | QM-02 |
| Cadmium | 0.131 | 0.220 | " | | 0.143 | | | 8.25 | 20 | | |
| Copper | 4.08 | 0.440 | " | | 4.34 | | | 6.20 | 20 | | |
| Lead | 4.66 | 0.220 | " | | 4.70 | | | 0.806 | 20 | | |
| Nickel | 5.29 | 0.440 | " | | 5.34 | | | 0.898 | 20 | | |
| Selenium | 0.468 | 0.286 | " | | 0.590 | | | 23.0 | 20 | | QR-03 |
| Silver | 0.0235 | 0.0220 | " | | 0.0276 | | | 15.7 | 20 | | |
| Zinc | 20.0 | 0.440 | " | | 20.7 | | | 3.83 | 20 | | |

| Matrix Spike (BFF0795-MS1) | | Source: 2206059-06 | | | Prepared: 06/30/22 Analyzed: 07/02/22 | | | | | | |
|----------------------------|------|--------------------|-----------|------|---------------------------------------|------|--------|--|--|--|-------|
| Arsenic | 47.2 | 0.220 | mg/kg dry | 44.0 | 2.46 | 102 | 75-125 | | | | |
| Barium | 151 | 0.440 | " | 44.0 | 289 | NR | 75-125 | | | | QM-02 |
| Cadmium | 2.46 | 0.220 | " | 2.20 | 0.143 | 106 | 75-125 | | | | |
| Copper | 46.7 | 0.440 | " | 44.0 | 4.34 | 96.4 | 75-125 | | | | |
| Lead | 25.7 | 0.220 | " | 22.0 | 4.70 | 95.5 | 75-125 | | | | |
| Nickel | 49.0 | 0.440 | " | 44.0 | 5.34 | 99.3 | 75-125 | | | | |
| Selenium | 4.30 | 0.286 | " | 4.40 | 0.590 | 84.4 | 75-125 | | | | |
| Silver | 2.21 | 0.0220 | " | 2.20 | 0.0276 | 99.1 | 75-125 | | | | |
| Zinc | 67.5 | 0.440 | " | 44.0 | 20.7 | 106 | 75-125 | | | | |

| Matrix Spike Dup (BFF0795-MSD1) | | Source: 2206059-06 | | | Prepared: 06/30/22 Analyzed: 07/02/22 | | | | | | |
|---------------------------------|------|--------------------|-----------|------|---------------------------------------|------|--------|------|----|--|-------|
| Arsenic | 49.1 | 0.220 | mg/kg dry | 44.0 | 2.46 | 106 | 75-125 | 3.98 | 25 | | |
| Barium | 246 | 0.440 | " | 44.0 | 289 | NR | 75-125 | 47.8 | 25 | | QM-02 |
| Cadmium | 2.56 | 0.220 | " | 2.20 | 0.143 | 110 | 75-125 | 3.84 | 25 | | |
| Copper | 48.4 | 0.440 | " | 44.0 | 4.34 | 100 | 75-125 | 3.48 | 25 | | |
| Lead | 26.6 | 0.220 | " | 22.0 | 4.70 | 99.5 | 75-125 | 3.33 | 25 | | |
| Nickel | 50.3 | 0.440 | " | 44.0 | 5.34 | 102 | 75-125 | 2.48 | 25 | | |
| Selenium | 4.57 | 0.286 | " | 4.40 | 0.590 | 90.4 | 75-125 | 6.00 | 25 | | |
| Silver | 2.28 | 0.0220 | " | 2.20 | 0.0276 | 102 | 75-125 | 3.09 | 25 | | |
| Zinc | 69.5 | 0.440 | " | 44.0 | 20.7 | 111 | 75-125 | 2.84 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFF0340 - 3060A Mod

Blank (BFF0340-BLK1)

Prepared & Analyzed: 06/13/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFF0340-BS1)

Prepared & Analyzed: 06/13/22

Chromium, Hexavalent 29.2 0.30 mg/kg wet 25.0 117 80-120

Duplicate (BFF0340-DUP1)

Source: 2206054-01

Prepared & Analyzed: 06/13/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFF0340-MS1)

Source: 2206054-01

Prepared & Analyzed: 06/13/22

Chromium, Hexavalent 32.3 0.30 mg/kg dry 26.5 ND 122 75-125

Matrix Spike Dup (BFF0340-MSD1)

Source: 2206054-01

Prepared & Analyzed: 06/13/22

Chromium, Hexavalent 31.4 0.30 mg/kg dry 26.5 ND 119 75-125 2.83 20

Batch BFG0029 - 3060A Mod

Blank (BFG0029-BLK1)

Prepared & Analyzed: 07/05/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFG0029-BS1)

Prepared & Analyzed: 07/05/22

Chromium, Hexavalent 28.3 0.30 mg/kg wet 25.0 113 80-120

Duplicate (BFG0029-DUP1)

Source: 2206059-06

Prepared & Analyzed: 07/05/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFG0029-MS1)

Source: 2206059-06

Prepared & Analyzed: 07/05/22

Chromium, Hexavalent 30.1 0.30 mg/kg dry 27.5 ND 110 75-125

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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:

07/05/22 14:21

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFG0029 - 3060A Mod

| Matrix Spike Dup (BFG0029-MSD1) | | Source: 2206059-06 | | | Prepared & Analyzed: 07/05/22 | | | | | |
|---------------------------------|------|--------------------|-----------|------|-------------------------------|-----|--------|------|----|--|
| Chromium, Hexavalent | 31.9 | 0.30 | mg/kg dry | 27.5 | ND | 116 | 75-125 | 5.85 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

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

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

Batch BFF0323 - General Preparation

Blank (BFF0323-BLK1)

Prepared: 06/13/22 Analyzed: 06/15/22

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

LCS (BFF0323-BS1)

Prepared: 06/13/22 Analyzed: 06/15/22

| | | | | | | |
|-----------|-----|--------|----------|-----|-----|--------|
| Calcium | 557 | 0.0500 | mg/L wet | 500 | 111 | 70-130 |
| Magnesium | 579 | 0.0500 | " | 500 | 116 | 70-130 |
| Sodium | 524 | 0.0500 | " | 500 | 105 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

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

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

Batch BFF0223 - General Preparation

Duplicate (BFF0223-DUP1) **Source: 2206044-01** Prepared: 06/08/22 Analyzed: 06/09/22

| | | | | | | | | | |
|----------|------|--|---|--|------|--|--|------|----|
| % Solids | 80.0 | | % | | 80.0 | | | 0.00 | 20 |
|----------|------|--|---|--|------|--|--|------|----|

Batch BFF0295 - General Preparation

Duplicate (BFF0295-DUP1) **Source: 2206017-01** Prepared & Analyzed: 06/10/22

| | | | | | | | | | |
|----------|------|--|---|--|------|--|--|-------|----|
| % Solids | 86.5 | | % | | 86.3 | | | 0.229 | 20 |
|----------|------|--|---|--|------|--|--|-------|----|

Batch BFF0788 - General Preparation

Duplicate (BFF0788-DUP1) **Source: 2206059-06** Prepared & Analyzed: 06/30/22

| | | | | | | | | | |
|----------|------|--|---|--|------|--|--|-------|----|
| % Solids | 90.1 | | % | | 90.9 | | | 0.912 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

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

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

Batch BFF0325 - General Preparation

Blank (BFF0325-BLK1)

Prepared: 06/13/22 Analyzed: 06/14/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFF0325-BS1)

Prepared: 06/13/22 Analyzed: 06/14/22

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

Duplicate (BFF0325-DUP1)

Source: 2206059-01

Prepared: 06/13/22 Analyzed: 06/14/22

Specific Conductance (EC) 0.400 0.0100 mmhos/cm 0.422 5.42 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

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

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

Batch BFF0326 - General Preparation

LCS (BFF0326-BS1)

Prepared: 06/13/22 Analyzed: 06/14/22

| | | | | | |
|----|------|----------|------|-----|--------|
| pH | 9.25 | pH Units | 9.18 | 101 | 95-105 |
|----|------|----------|------|-----|--------|

Duplicate (BFF0326-DUP1)

Source: 2206059-01

Prepared: 06/13/22 Analyzed: 06/14/22

| | | | | | |
|----|------|----------|------|-------|----|
| pH | 8.55 | pH Units | 8.59 | 0.467 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/05/22 14:21

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. |
| 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. |
| 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. |
| 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

July 06, 2023

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

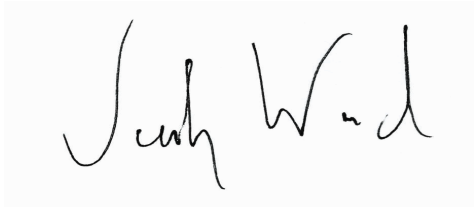
Denver, CO 80203

RE: Booth 7-26 Wellhead

Work Order # 2303733

Enclosed are the results of analyses for samples received by Summit Scientific on 03/30/23 17:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a stylized "W".

Jacob Wood For Paul Shrewsbury

President



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
07/06/23 11:25

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|------------|---------------|--------|----------------|----------------|
| BKG07@3-4' | 2303733-01 | Soil | 03/30/23 10:50 | 03/30/23 17:30 |
| BKG07@7-8' | 2303733-02 | Soil | 03/30/23 11:24 | 03/30/23 17:30 |
| BKG08@3-4' | 2303733-03 | Soil | 03/30/23 10:50 | 03/30/23 17:30 |
| BKG08@7-8' | 2303733-04 | Soil | 03/30/23 11:30 | 03/30/23 17:30 |
| BKG09@3-4' | 2303733-05 | Soil | 03/30/23 11:00 | 03/30/23 17:30 |
| BKG09@7-8' | 2303733-06 | Soil | 03/30/23 11:40 | 03/30/23 17:30 |
| BKG10@3-4' | 2303733-07 | Soil | 03/30/23 10:58 | 03/30/23 17:30 |
| BKG10@7-8' | 2303733-08 | Soil | 03/30/23 11:41 | 03/30/23 17:30 |
| BKG11@3-4' | 2303733-09 | Soil | 03/30/23 11:07 | 03/30/23 17:30 |
| BKG11@7-8' | 2303733-10 | Soil | 03/30/23 11:33 | 03/30/23 17:30 |

Case Narrative

Robert Aronoff requested Arsenic & Selenium be added to all samples on 5/5/2023. This report includes those results.

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.

| | | | | | |
|---|--|---|--|--------------------------------------|--|
| Client: PDC / Tasman | | Send Data To: Project Manager: Mark Longhurst | | Send Invoice To: Company: PDC Energy | |
| Address: 6855 W 119th Ave | | E-Mail: mark.longhurst@PDCE.com | | Project Name/Location: | |
| City/State/Zip: Broomfield / CO / 80220 | | | | AFE#: | |
| Phone: 303-487-1228 | | Project Name: Booth 7-26 Wellhead | | PO/Billing Codes: | |
| Sampler Name: Emilia Wozniak | | Project Number: | | Contact: Mark Longhurst | |

| | | | | | Preservative | | | | Matrix | | | Analysis Requested | | | | | | | | Special Instructions | |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|----------------|--------------------|---------------|------------------|-------------------|-------------|-------------|-----------|--------|----------------------|--|
| ID | Sample Description | Date Sampled | Time Sampled | # of containers | HCl | HNO3 | None | Other | Water | Soil | Air-Canister # | Other | BTEXN - 8260B | TPH - (C6 - C36) | 1,2,4 & 1,3,5-TMB | Boron - HWS | pH, EC, SAR | PAH - 915 | Barium | | |
| 1 | BKG06 @ 3-4' | 3/30/23 | 1050 | 1 | | | X | | | X | | | | | | | | | | X | |
| 2 | BKG06 @ 7-8' | | 1124 | | | | | | | | | | | | | | | | | | |
| 3 | BKG07 @ 3-4' | | 1050 | | | | | | | | | | | | | | | | | | |
| 4 | BKG07 @ 7-8' | | 1130 | | | | | | | | | | | | | | | | | | |
| 5 | BKG08 @ 3-4' | | 1100 | | | | | | | | | | | | | | | | | | |
| 6 | BKG08 @ 7-8' | | 1140 | | | | | | | | | | | | | | | | | | |
| 7 | BKG09 @ 3-4' | | 1058 | | | | | | | | | | | | | | | | | | |
| 8 | BKG09 @ 7-8' | | 1141 | | | | | | | | | | | | | | | | | | |
| 9 | BKG10 @ 3-4' | | 1107 | | | | | | | | | | | | | | | | | | |
| 10 | BKG10 @ 7-8' | | 1133 | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|--|--|---------------------------------|--------------------|-------------------|---------------|--------|
| Relinquished by: <i>Emilia Wozniak</i> | Date/Time: 3/30/23 | Received by: Tasman's Lockbox | Date/Time: | TAT Business Days | Field DO | Notes: |
| | | | | Same Day | Field EC | |
| Relinquished by: Tasman's Lockbox | Date/Time: 3/30/23 | Received by: <i>[Signature]</i> | Date/Time: 3/30/23 | 1 Day | Field ORP | |
| | 1730 | | 1730 | 2 Days | Field pH | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 3 Days | Field Temp. | |
| | | | | Standard | X Field Turb. | |
| Temperature Upon Receipt: 9.8 | Corrected Temperature: <i>[initials]</i> | IR gun #: 1 | HNO3 lot #: | | | |

S₂

Sample Receipt Checklist

S2 Work Order# 2303133Client: Bochman Client Project ID: Booth 726 wellheadShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

| | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|

Matrix (Check all that apply) Air ☐ Soil/Solid ☐ Water ☐ Other ☐Temp (°C) 9.8Thermometer # 1

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

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.
AS
Custodian Printed Name

3/30/23
Date/Time



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/06/23 11:25

BKG07@3-4'
2303733-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/30/23 10:50**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|-------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Arsenic | 2.08 | 0.200 | | mg/kg dry | 1 | BGD0032 | 04/03/23 | 04/04/23 | EPA 6020B | |
| Barium | 46.0 | 0.400 | | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | 0.175 | " | " | " | " | " | " | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/30/23 10:50**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | MDL | | | | | | | |
| % Solids | 93.1 | | | % | 1 | BGD0034 | 04/03/23 | 04/03/23 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
07/06/23 11:25

BKG07@7-8'
2303733-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/30/23 11:24**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Arsenic | 2.14 | 0.200 | | mg/kg dry | 1 | BGD0032 | 04/03/23 | 04/04/23 | EPA 6020B | |
| Barium | 275 | 0.400 | | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | 0.175 | " | " | " | " | " | " | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/30/23 11:24**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | MDL | | | | | | | |
| % Solids | 87.7 | | | % | 1 | BGD0034 | 04/03/23 | 04/03/23 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/06/23 11:25

BKG08@3-4'
2303733-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/30/23 10:50**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------|--------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Arsenic | 4.09 | 0.200 | | mg/kg dry | 1 | BGD0032 | 04/03/23 | 04/04/23 | EPA 6020B | |
| Barium | 147 | 0.400 | | " | " | " | " | " | " | |
| Selenium | 0.226 | 0.260 | 0.175 | " | " | " | " | " | " | J |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/30/23 10:50**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | MDL | | | | | | | |
| % Solids | 90.2 | | | % | 1 | BGD0034 | 04/03/23 | 04/03/23 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/06/23 11:25

BKG08@7-8'
2303733-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/30/23 11:30**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------|-------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Arsenic | 2.09 | 0.200 | | mg/kg dry | 1 | BGD0032 | 04/03/23 | 04/04/23 | EPA 6020B | |
| Barium | 21.0 | 0.400 | | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | 0.175 | " | " | " | " | " | " | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/30/23 11:30**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | MDL | | | | | | | |
| % Solids | 88.7 | | | % | 1 | BGD0034 | 04/03/23 | 04/03/23 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
07/06/23 11:25

BKG09@3-4'
2303733-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/30/23 11:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------|-------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Arsenic | 2.58 | 0.200 | | mg/kg dry | 1 | BGD0032 | 04/03/23 | 04/04/23 | EPA 6020B | |
| Barium | 70.2 | 0.400 | | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | 0.175 | " | " | " | " | " | " | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/30/23 11:00**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | MDL | | | | | | | |
| % Solids | 93.1 | | | % | 1 | BGD0034 | 04/03/23 | 04/03/23 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/06/23 11:25

BKG09@7-8'
2303733-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/30/23 11:40**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------|-------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Arsenic | 2.29 | 0.200 | | mg/kg dry | 1 | BGD0032 | 04/03/23 | 04/04/23 | EPA 6020B | |
| Barium | 47.1 | 0.400 | | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | 0.175 | " | " | " | " | " | " | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/30/23 11:40**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | MDL | | | | | | | |
| % Solids | 90.3 | | | % | 1 | BGD0034 | 04/03/23 | 04/03/23 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/06/23 11:25

BKG10@3-4'
2303733-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/30/23 10:58**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|-------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Arsenic | 3.80 | 0.200 | | mg/kg dry | 1 | BGD0032 | 04/03/23 | 04/04/23 | EPA 6020B | |
| Barium | 113 | 0.400 | | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | 0.175 | " | " | " | " | " | " | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/30/23 10:58**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | MDL | | | | | | | |
| % Solids | 87.0 | | | % | 1 | BGD0034 | 04/03/23 | 04/03/23 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/06/23 11:25

BKG10@7-8'
2303733-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/30/23 11:41**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------|-------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Arsenic | 2.32 | 0.200 | | mg/kg dry | 1 | BGD0032 | 04/03/23 | 04/04/23 | EPA 6020B | |
| Barium | 158 | 0.400 | | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | 0.175 | " | " | " | " | " | " | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/30/23 11:41**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | MDL | | | | | | | |
| % Solids | 91.0 | | | % | 1 | BGD0034 | 04/03/23 | 04/03/23 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
07/06/23 11:25

BKG11@3-4'
2303733-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/30/23 11:07**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------|-------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Arsenic | 2.22 | 0.200 | | mg/kg dry | 1 | BGD0032 | 04/03/23 | 04/04/23 | EPA 6020B | |
| Barium | 62.6 | 0.400 | | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | 0.175 | " | " | " | " | " | " | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/30/23 11:07**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | MDL | | | | | | | |
| % Solids | 85.3 | | | % | 1 | BGD0034 | 04/03/23 | 04/03/23 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/06/23 11:25

BKG11@7-8'
2303733-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/30/23 11:33**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------|-------------|-----------|-------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | MDL | | | | | | | |
| Arsenic | 2.86 | 0.200 | | mg/kg dry | 1 | BGD0032 | 04/03/23 | 04/04/23 | EPA 6020B | |
| Barium | 105 | 0.400 | | " | " | " | " | " | " | |
| Selenium | ND | 0.260 | 0.175 | " | " | " | " | " | " | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/30/23 11:33**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------|-------------|-----------|-----|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | MDL | | | | | | | |
| % Solids | 86.8 | | | % | 1 | BGD0034 | 04/03/23 | 04/03/23 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
07/06/23 11:25

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BGD0032 - EPA 3050B

Blank (BGD0032-BLK1)

Prepared: 04/03/23 Analyzed: 04/04/23

| | | | |
|----------|----|-------|-----------|
| Arsenic | ND | 0.200 | mg/kg wet |
| Barium | ND | 0.400 | " |
| Selenium | ND | 0.260 | " |

LCS (BGD0032-BS1)

Prepared: 04/03/23 Analyzed: 04/04/23

| | | | | | | |
|----------|------|-------|-----------|------|------|--------|
| Arsenic | 39.0 | 0.200 | mg/kg wet | 40.0 | 97.4 | 80-120 |
| Barium | 39.1 | 0.400 | " | 40.0 | 97.7 | 80-120 |
| Selenium | 3.91 | 0.260 | " | 4.00 | 97.8 | 80-120 |

Duplicate (BGD0032-DUP1)

Source: 2303726-01

Prepared: 04/03/23 Analyzed: 04/04/23

| | | | | | | | |
|----------|------|-------|-----------|------|------|----|-------|
| Arsenic | 1.43 | 0.200 | mg/kg dry | 2.15 | 40.2 | 20 | QR-04 |
| Barium | 88.8 | 0.400 | " | 148 | 50.2 | 20 | QR-04 |
| Selenium | ND | 0.260 | " | ND | | 20 | |

Matrix Spike (BGD0032-MS1)

Source: 2303726-01

Prepared: 04/03/23 Analyzed: 04/04/23

| | | | | | | | | |
|----------|------|-------|-----------|------|------|------|--------|-------|
| Arsenic | 47.0 | 0.200 | mg/kg dry | 49.9 | 2.15 | 89.9 | 75-125 | |
| Barium | 147 | 0.400 | " | 49.9 | 148 | NR | 75-125 | QM-05 |
| Selenium | 4.48 | 0.260 | " | 4.99 | ND | 89.8 | 75-125 | |

Matrix Spike Dup (BGD0032-MSD1)

Source: 2303726-01

Prepared: 04/03/23 Analyzed: 04/04/23

| | | | | | | | | | | |
|----------|------|-------|-----------|------|------|------|--------|------|----|-------|
| Arsenic | 47.5 | 0.200 | mg/kg dry | 49.9 | 2.15 | 90.9 | 75-125 | 1.08 | 25 | |
| Barium | 156 | 0.400 | " | 49.9 | 148 | 15.6 | 75-125 | 5.91 | 25 | QM-05 |
| Selenium | 4.60 | 0.260 | " | 4.99 | ND | 92.1 | 75-125 | 2.54 | 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Booth 7-26 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
07/06/23 11:25

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

Summit Scientific

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

Batch BGD0034 - General Preparation

Duplicate (BGD0034-DUP1)

Source: 2303726-01

Prepared & Analyzed: 04/03/23

| | | | | | |
|----------|------|---|------|------|----|
| % Solids | 81.2 | % | 80.2 | 1.24 | 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.



PDC Energy

1775 Sherman St. STE. 3000

Denver CO, 80203

Project: Booth 7-26 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:

07/06/23 11:25

Notes and Definitions

| | |
|-------|---|
| QR-04 | The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values. |
| 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. |
| J | Detected but below the Reporting Limit; therefore, result is an estimated concentration |
| 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 |