

TABLE 1
FORMER GUTTERSEN 33-6 WELLHEAD
SOIL ANALYTICAL RESULTS SUMMARY TABLE
ORGANIC COMPOUNDS

| 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' | 12/6/2022 | 6 ft. bgs | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <50 |
| FLR01 @ 4' | 12/6/2022 | 4 ft. bgs | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <50 |
| FL01-02 @ 5' | 12/7/2022 | 5 ft. bgs | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <50 |
| FL01-04 @ 5' | 12/7/2022 | 5 ft. bgs | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <50 |
| FL01-07 @ 5' | 12/8/2022 | 5 ft. bgs | <0.0020 | <0.0050 | <0.0050 | <0.010 | <0.0050 | <0.0050 | <0.0038 | <50 |

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.
 - 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 GUTTERSEN 33-6 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 |
| WH01 @ 6' | 12/6/2022 | 6 ft. bgs | 9.82 | 0.602 | 2.71 | 0.0587 |
| FLR01 @ 4' | 12/6/2022 | 4 ft. bgs | 7.81 | 0.247 | 0.163 | 0.0423 |
| BKG01 @ 4' | 12/6/2022 | 4 ft. bgs | 7.13 | NA | NA | NA |
| BKG01 @ 6' | 12/6/2022 | 6 ft. bgs | 7.85 | NA | NA | NA |

Notes:

1. Compounds referenced from the COGCC 2 CCR 404-1, Table 915-1, effective January 15, 2021.

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.

TABLE 3
FORMER GUTTERSEN 33-6 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 |
| WH01 @ 6' | 12/6/2022 | 6 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 |
| FLR01 @ 4' | 12/6/2022 | 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:

- 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.

COGCC = Colorado Oil and Gas Conservation Commission

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

PAHs = Polycyclic aromatic hydrocarbons

Benz(a) = Benzantracene

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 GUTTERSEN 33-6 WELLHEAD
FIELD DATA SUMMARY TABLE

| Sample ID | Date Sampled | Depth | GPS Data ⁽¹⁾ Latitude / Longitude | | PDOP Value | VOC Concentration ⁽²⁾ (ppm) |
|----------------|--------------|-------------|-------------------------------------------------|-------------|------------|----------------------------------------------|
| WH01 @ 6' | 12/6/2022 | 6 ft. bgs | NC | NC | NC | 3.2 |
| FLR01 @ 4' | 12/6/2022 | 4 ft. bgs | 40.252668 | -104.478197 | 0.9 | 3.1 |
| WHS01-N @ 0-6" | 12/6/2022 | 0-6 in. bgs | 40.252748 | -104.478147 | 0.9 | 0.2 |
| WHS01-E @ 0-6" | 12/6/2022 | 0-6 in. bgs | 40.252691 | -104.478159 | 1.0 | 0.2 |
| WHS01-S @ 0-6" | 12/6/2022 | 0-6 in. bgs | 40.252650 | -104.478209 | 0.9 | 0.6 |
| WHS01-W @ 0-6" | 12/6/2022 | 0-6 in. bgs | 40.252710 | -104.478260 | 0.9 | 0.5 |
| FL01-01 @ 3' | 12/7/2022 | 3 ft. bgs | 40.252078 | -104.478668 | 0.8 | 0.0 |
| FL01-02 @ 5' | 12/7/2022 | 5 ft. bgs | 40.251682 | -104.478868 | 1.1 | 0.0 |
| FL01-03 @ 5' | 12/7/2022 | 5 ft. bgs | 40.251482 | -104.478048 | 0.7 | 0.0 |
| FL01-04 @ 5' | 12/7/2022 | 5 ft. bgs | 40.251182 | -104.477281 | 0.7 | 0.0 |
| FL01-05 @ 5' | 12/7/2022 | 5 ft. bgs | 40.250888 | -104.476502 | 1.0 | 0.0 |
| FL01-06 @ 4' | 12/7/2022 | 4 ft. bgs | 40.250590 | -104.475726 | 0.8 | 0.0 |
| FL01-07 @ 5' | 12/8/2022 | 5 ft. bgs | 40.250515 | -104.475596 | 1.0 | 0.0 |
| BKG01 @ 4' | 12/6/2022 | 4 ft. bgs | 40.252788 | -104.478170 | 0.9 | 0.0 |
| BKG01 @ 6' | 12/6/2022 | 6 ft. bgs | 40.252788 | -104.478170 | 0.9 | 0.0 |

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

ppm = Parts per million

ft. = Feet

in. = Inches

bgs = Below ground surface

ATTACHMENT A

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 29, 2022

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

Denver, CO 80203

RE: Guttersen 33-6 Wellhead

Work Order #2212124

Enclosed are the results of analyses for samples received by Summit Scientific on 12/06/22 17:48. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury
President



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

Project: Guttersen 33-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/29/22 14:31

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| WH01@6' | 2212124-01 | Soil | 12/06/22 12:25 | 12/06/22 17:48 |
| FLR01@4' | 2212124-02 | Soil | 12/06/22 12:30 | 12/06/22 17:48 |
| BKG01@4' | 2212124-03 | Soil | 12/06/22 12:40 | 12/06/22 17:48 |
| BKG01@6' | 2212124-04 | Soil | 12/06/22 12:45 | 12/06/22 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

2212124

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: Guttererson 33-6 wellhead |
| Sampler Name: Emilia Wozniak | Project Number: |

| 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 | PAH - 915 | | | | |
| 1 | W401(9) 6' | 12/6/22 | 1225 | 3 | | | ↓ | | | ↓ | | | | + | + | + | + | + | + | | | |
| 2 | FLR01(9) 4' | ↓ | 1230 | 3 | | | ↓ | | | ↓ | | | | + | + | + | + | + | + | | | |
| 3 | BKG01(9) 4' | ↓ | 1240 | 1 | | | ↓ | | | ↓ | | | | | | | | | | + | | |
| 4 | BKG01(9) 6' | ↓ | 1245 | 1 | | | ↓ | | | ↓ | | | | | | | | | | + | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | |
|----------------------------------------|-------------------------|---------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------|
| Relinquished by: <i>Emilia Wozniak</i> | Date/Time: 12/6/22 1718 | Received by: Tasman's Lock Box | Date/Time: 12/6/22 1718 | Turn Around Time (Check) Same Day _____ 72 hours 24 hours _____ Standard <input checked="" type="checkbox"/> 48 hours _____ | Notes: |
| Relinquished by: Tasman's Lock Box | Date/Time: 12/6/22 1748 | Received by: <i>[Signature]</i> | Date/Time: 12/6/22 1748 | Sample Integrity: Temperature Upon Receipt: 7.3 Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | | |

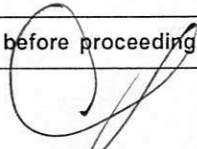
S₂

Sample Receipt Checklist

S2 Work Order# 2212124Client: Profasman Client Project ID: Gutherson 33-6 wellheadShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: _____
☐ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 7.3 Thermometer # 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.

 Custodian Printed Name

12-6-22
 Date/Time



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

Project: Gutttersen 33-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/29/22 14:31

WH01@6'
2212124-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/06/22 12:25**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Benzene | ND | 0.0020 | mg/kg | 1 | BFL0213 | 12/08/22 | 12/10/22 | 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: **12/06/22 12:25**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0399 | 99.7 % | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0382 | 95.6 % | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0396 | 99.1 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/06/22 12:25**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BFL0215 | 12/08/22 | 12/09/22 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **12/06/22 12:25**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | |
| Surrogate: o-Terphenyl | 7.24 | 57.9 % | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Gutttersen 33-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/29/22 14:31

WH01@6'
2212124-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/06/22 12:25**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BFL0235 | 12/09/22 | 12/09/22 | 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: **12/06/22 12:25**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0285 | 85.5 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0236 | 71.0 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/06/22 12:25**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|---------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.0587 | 0.0100 | mg/L | 1 | BFL0245 | 12/09/22 | 12/11/22 | EPA 6020B | |

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

Date Sampled: **12/06/22 12:25**

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

Summit Scientific

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

Project: Gutttersen 33-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/29/22 14:31

WH01@6'
2212124-01 (Soil)

Summit Scientific

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

| | | | | | | | | |
|-----------|------|--------|----------|---|---------|----------|----------|-----------|
| Calcium | 87.6 | 0.0536 | mg/L dry | 1 | BFL0253 | 12/09/22 | 12/12/22 | EPA 6020B |
| Magnesium | 54.7 | 0.0536 | " | " | " | " | " | " |
| Sodium | 131 | 0.0536 | " | " | " | " | " | " |

Calculated Analysis

Date Sampled: **12/06/22 12:25**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 2.71 | 0.00100 | units | 1 | BFL0324 | 12/13/22 | 12/13/22 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/06/22 12:25**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 93.4 | | % | 1 | BFL0291 | 12/12/22 | 12/12/22 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/06/22 12:25**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.602 | 0.0100 | mmhos/cm | 1 | BFL0266 | 12/10/22 | 12/10/22 | EPA 120.1 | |

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

Date Sampled: **12/06/22 12:25**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 9.82 | | pH Units | 1 | BFL0267 | 12/10/22 | 12/10/22 | EPA 9045D | |

Summit Scientific

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

Project: Gutttersen 33-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/29/22 14:31

FLR01@4'
2212124-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/06/22 12:30**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Benzene | ND | 0.0020 | mg/kg | 1 | BFL0213 | 12/08/22 | 12/10/22 | 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: **12/06/22 12:30**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0416 | 104 % | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0387 | 96.8 % | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0399 | 99.8 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/06/22 12:30**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BFL0215 | 12/08/22 | 12/09/22 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **12/06/22 12:30**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | |
| Surrogate: o-Terphenyl | 7.77 | 62.2 % | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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



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

Project: Gutttersen 33-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/29/22 14:31

FLR01@4'
2212124-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/06/22 12:30**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BFL0235 | 12/09/22 | 12/09/22 | 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: **12/06/22 12:30**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0269 | 80.8 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | 0.0182 | 54.7 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/06/22 12:30**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|---------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.0423 | 0.0100 | mg/L | 1 | BFL0245 | 12/09/22 | 12/11/22 | EPA 6020B | |

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

Date Sampled: **12/06/22 12:30**

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

Summit Scientific

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

Project: Gutttersen 33-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/29/22 14:31

FLR01@4'
2212124-02 (Soil)

Summit Scientific

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

| | | | | | | | | |
|-----------|------|--------|----------|---|---------|----------|----------|-----------|
| Calcium | 27.1 | 0.0525 | mg/L dry | 1 | BFL0253 | 12/09/22 | 12/12/22 | EPA 6020B |
| Magnesium | 3.56 | 0.0525 | " | " | " | " | " | " |
| Sodium | 3.39 | 0.0525 | " | " | " | " | " | " |

Calculated Analysis

Date Sampled: **12/06/22 12:30**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.163 | 0.00100 | units | 1 | BFL0324 | 12/13/22 | 12/13/22 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/06/22 12:30**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 95.2 | | % | 1 | BFL0291 | 12/12/22 | 12/12/22 | Calculation | |

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/06/22 12:30**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.247 | 0.0100 | mmhos/cm | 1 | BFL0266 | 12/10/22 | 12/10/22 | EPA 120.1 | |

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

Date Sampled: **12/06/22 12:30**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 7.81 | | pH Units | 1 | BFL0267 | 12/10/22 | 12/10/22 | EPA 9045D | |

Summit Scientific

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

Project: Guttersen 33-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/29/22 14:31

BKG01@4'
2212124-03 (Soil)

Summit Scientific

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

Date Sampled: **12/06/22 12:40**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| pH | 7.13 | | | pH Units | 1 | BFL0720 | 12/29/22 | 12/29/22 | EPA 9045D | I-04 |

Summit Scientific

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



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

Project: Guttersen 33-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/29/22 14:31

BKG01@6'
2212124-04 (Soil)

Summit Scientific

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

Date Sampled: **12/06/22 12:45**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| pH | 7.85 | | | pH Units | 1 | BFL0720 | 12/29/22 | 12/29/22 | EPA 9045D | I-04 |

Summit Scientific

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

Project: Gutteresen 33-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/29/22 14:31

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 BFL0213 - EPA 5030 Soil MS

Blank (BFL0213-BLK1)

Prepared: 12/08/22 Analyzed: 12/10/22

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | ND | 0.0020 | mg/kg | | | | | | | |
| Toluene | ND | 0.0050 | " | | | | | | | |
| Ethylbenzene | ND | 0.0050 | " | | | | | | | |
| Xylenes (total) | ND | 0.010 | " | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | | | | | | | |
| Naphthalene | ND | 0.0038 | " | | | | | | | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0417 | | " | 0.0400 | | 104 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0390 | | " | 0.0400 | | 97.6 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0407 | | " | 0.0400 | | 102 | 50-150 | | | |

LCS (BFL0213-BS1)

Prepared: 12/08/22 Analyzed: 12/10/22

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | 0.155 | 0.0020 | mg/kg | 0.150 | | 104 | 70-130 | | | |
| Toluene | 0.145 | 0.0050 | " | 0.150 | | 96.8 | 70-130 | | | |
| Ethylbenzene | 0.157 | 0.0050 | " | 0.150 | | 105 | 70-130 | | | |
| m,p-Xylene | 0.308 | 0.010 | " | 0.300 | | 103 | 70-130 | | | |
| o-Xylene | 0.142 | 0.0050 | " | 0.150 | | 94.5 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.151 | 0.0050 | " | 0.150 | | 101 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.154 | 0.0050 | " | 0.150 | | 103 | 70-130 | | | |
| Naphthalene | 0.125 | 0.0038 | " | 0.150 | | 83.2 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0415 | | " | 0.0400 | | 104 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0401 | | " | 0.0400 | | 100 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0381 | | " | 0.0400 | | 95.2 | 50-150 | | | |

Matrix Spike (BFL0213-MS1)

Source: 2212111-01

Prepared: 12/08/22 Analyzed: 12/10/22

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|----|------|--------|--|--|--|
| Benzene | 0.153 | 0.0020 | mg/kg | 0.150 | ND | 102 | 70-130 | | | |
| Toluene | 0.146 | 0.0050 | " | 0.150 | ND | 97.4 | 70-130 | | | |
| Ethylbenzene | 0.156 | 0.0050 | " | 0.150 | ND | 104 | 70-130 | | | |
| m,p-Xylene | 0.304 | 0.010 | " | 0.300 | ND | 101 | 70-130 | | | |
| o-Xylene | 0.142 | 0.0050 | " | 0.150 | ND | 94.7 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.152 | 0.0050 | " | 0.150 | ND | 101 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.155 | 0.0050 | " | 0.150 | ND | 103 | 70-130 | | | |
| Naphthalene | 0.138 | 0.0038 | " | 0.150 | ND | 92.0 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0426 | | " | 0.0400 | | 106 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0401 | | " | 0.0400 | | 100 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0384 | | " | 0.0400 | | 96.1 | 50-150 | | | |

Summit Scientific

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

Project: Gutttersen 33-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/29/22 14:31

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 BFL0213 - EPA 5030 Soil MS

| Matrix Spike Dup (BFL0213-MSD1) | Source: 2212111-01 | | | Prepared: 12/08/22 Analyzed: 12/10/22 | | | | | | |
|----------------------------------|--------------------|--------|-------|---------------------------------------|----|------|--------|-------|----|--|
| Benzene | 0.153 | 0.0020 | mg/kg | 0.150 | ND | 102 | 70-130 | 0.00 | 30 | |
| Toluene | 0.147 | 0.0050 | " | 0.150 | ND | 97.9 | 70-130 | 0.512 | 30 | |
| Ethylbenzene | 0.164 | 0.0050 | " | 0.150 | ND | 109 | 70-130 | 4.74 | 30 | |
| m,p-Xylene | 0.318 | 0.010 | " | 0.300 | ND | 106 | 70-130 | 4.52 | 30 | |
| o-Xylene | 0.145 | 0.0050 | " | 0.150 | ND | 96.9 | 70-130 | 2.28 | 30 | |
| 1,2,4-Trimethylbenzene | 0.156 | 0.0050 | " | 0.150 | ND | 104 | 70-130 | 2.94 | 30 | |
| 1,3,5-Trimethylbenzene | 0.163 | 0.0050 | " | 0.150 | ND | 108 | 70-130 | 4.99 | 30 | |
| Naphthalene | 0.139 | 0.0038 | " | 0.150 | ND | 92.8 | 70-130 | 0.887 | 30 | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0399 | | " | 0.0400 | | 99.8 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0395 | | " | 0.0400 | | 98.8 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0374 | | " | 0.0400 | | 93.6 | 50-150 | | | |

Summit Scientific

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

Project: Gutttersen 33-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/29/22 14:31

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 BFL0215 - EPA 3550A

Blank (BFL0215-BLK1)

Prepared: 12/08/22 Analyzed: 12/09/22

| | | | | | | | | | | |
|------------------------|------|----|-------|------|--|------|--------|--|--|--|
| C10-C28 (DRO) | ND | 50 | mg/kg | | | | | | | |
| C28-C36 (ORO) | ND | 50 | " | | | | | | | |
| Surrogate: o-Terphenyl | 11.6 | | " | 12.5 | | 93.0 | 30-150 | | | |

LCS (BFL0215-BS1)

Prepared: 12/08/22 Analyzed: 12/09/22

| | | | | | | | | | | |
|------------------------|------|----|-------|------|--|------|--------|--|--|--|
| C10-C28 (DRO) | 415 | 50 | mg/kg | 500 | | 83.0 | 70-130 | | | |
| Surrogate: o-Terphenyl | 11.0 | | " | 12.5 | | 88.1 | 30-150 | | | |

Matrix Spike (BFL0215-MS1)

Source: 2212111-01

Prepared: 12/08/22 Analyzed: 12/09/22

| | | | | | | | | | | |
|------------------------|------|----|-------|------|------|------|--------|--|--|--|
| C10-C28 (DRO) | 395 | 50 | mg/kg | 500 | 14.5 | 76.0 | 70-130 | | | |
| Surrogate: o-Terphenyl | 6.29 | | " | 12.5 | | 50.3 | 30-150 | | | |

Matrix Spike Dup (BFL0215-MSD1)

Source: 2212111-01

Prepared: 12/08/22 Analyzed: 12/09/22

| | | | | | | | | | | |
|------------------------|------|----|-------|------|------|------|--------|------|----|--|
| C10-C28 (DRO) | 408 | 50 | mg/kg | 500 | 14.5 | 78.7 | 70-130 | 3.34 | 20 | |
| Surrogate: o-Terphenyl | 5.67 | | " | 12.5 | | 45.4 | 30-150 | | | |

Summit Scientific

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

Project: Gutttersen 33-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/29/22 14:31

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 |

Batch BFL0235 - EPA 5030 Soil MS

Blank (BFL0235-BLK1)

Prepared & Analyzed: 12/09/22

| | | | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|--|------|--|--------|--|--|--|
| 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 | 0.0397 | | " | 0.0333 | | 119 | | 40-150 | | | |
| Surrogate: Fluoranthene-d10 | 0.0256 | | " | 0.0333 | | 76.7 | | 40-150 | | | |

LCS (BFL0235-BS1)

Prepared & Analyzed: 12/09/22

| | | | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|--|------|--|--------|--|--|--|
| Acenaphthene | 0.0318 | 0.00500 | mg/kg | 0.0333 | | 95.4 | | 31-137 | | | |
| Anthracene | 0.0307 | 0.00500 | " | 0.0333 | | 92.0 | | 30-120 | | | |
| Benzo (a) anthracene | 0.0250 | 0.00500 | " | 0.0333 | | 75.1 | | 30-120 | | | |
| Benzo (a) pyrene | 0.0280 | 0.00500 | " | 0.0333 | | 84.2 | | 30-120 | | | |
| Benzo (b) fluoranthene | 0.0276 | 0.00500 | " | 0.0333 | | 82.7 | | 30-120 | | | |
| Benzo (k) fluoranthene | 0.0356 | 0.00500 | " | 0.0333 | | 107 | | 30-120 | | | |
| Chrysene | 0.0312 | 0.00500 | " | 0.0333 | | 93.7 | | 30-120 | | | |
| Dibenz (a,h) anthracene | 0.0343 | 0.00500 | " | 0.0333 | | 103 | | 30-120 | | | |
| Fluoranthene | 0.0315 | 0.00500 | " | 0.0333 | | 94.6 | | 30-120 | | | |
| Fluorene | 0.0288 | 0.00500 | " | 0.0333 | | 86.3 | | 30-120 | | | |
| Indeno (1,2,3-cd) pyrene | 0.0355 | 0.00500 | " | 0.0333 | | 106 | | 30-120 | | | |
| Pyrene | 0.0314 | 0.00500 | " | 0.0333 | | 94.2 | | 35-142 | | | |
| 1-Methylnaphthalene | 0.0293 | 0.00500 | " | 0.0333 | | 87.8 | | 35-142 | | | |
| 2-Methylnaphthalene | 0.0286 | 0.00500 | " | 0.0333 | | 85.9 | | 35-142 | | | |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0294 | | " | 0.0333 | | 88.3 | | 40-150 | | | |
| Surrogate: Fluoranthene-d10 | 0.0314 | | " | 0.0333 | | 94.1 | | 40-150 | | | |

Summit Scientific

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

Project: Gutttersen 33-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/29/22 14:31

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 BFL0235 - EPA 5030 Soil MS

Matrix Spike (BFL0235-MS1)

Source: 2212124-01

Prepared & Analyzed: 12/09/22

| | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|----|------|--------|--|--|
| Acenaphthene | 0.0227 | 0.00500 | mg/kg | 0.0333 | ND | 68.2 | 31-137 | | |
| Anthracene | 0.0243 | 0.00500 | " | 0.0333 | ND | 72.9 | 30-120 | | |
| Benzo (a) anthracene | 0.0219 | 0.00500 | " | 0.0333 | ND | 65.7 | 30-120 | | |
| Benzo (a) pyrene | 0.0211 | 0.00500 | " | 0.0333 | ND | 63.2 | 30-120 | | |
| Benzo (b) fluoranthene | 0.0221 | 0.00500 | " | 0.0333 | ND | 66.2 | 30-120 | | |
| Benzo (k) fluoranthene | 0.0253 | 0.00500 | " | 0.0333 | ND | 75.9 | 30-120 | | |
| Chrysene | 0.0239 | 0.00500 | " | 0.0333 | ND | 71.7 | 30-120 | | |
| Dibenz (a,h) anthracene | 0.0221 | 0.00500 | " | 0.0333 | ND | 66.4 | 30-120 | | |
| Fluoranthene | 0.0254 | 0.00500 | " | 0.0333 | ND | 76.3 | 30-120 | | |
| Fluorene | 0.0222 | 0.00500 | " | 0.0333 | ND | 66.6 | 30-120 | | |
| Indeno (1,2,3-cd) pyrene | 0.0232 | 0.00500 | " | 0.0333 | ND | 69.7 | 30-120 | | |
| Pyrene | 0.0253 | 0.00500 | " | 0.0333 | ND | 76.0 | 35-142 | | |
| 1-Methylnaphthalene | 0.0253 | 0.00500 | " | 0.0333 | ND | 75.8 | 15-130 | | |
| 2-Methylnaphthalene | 0.0227 | 0.00500 | " | 0.0333 | ND | 68.1 | 15-130 | | |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0237 | | " | 0.0333 | | 71.2 | 40-150 | | |
| Surrogate: Fluoranthene-d10 | 0.0239 | | " | 0.0333 | | 71.7 | 40-150 | | |

Matrix Spike Dup (BFL0235-MSD1)

Source: 2212124-01

Prepared & Analyzed: 12/09/22

| | | | | | | | | | |
|------------------------------------|--------|---------|-------|--------|----|------|--------|-------|----|
| Acenaphthene | 0.0225 | 0.00500 | mg/kg | 0.0333 | ND | 67.6 | 31-137 | 0.994 | 30 |
| Anthracene | 0.0217 | 0.00500 | " | 0.0333 | ND | 65.0 | 30-120 | 11.4 | 30 |
| Benzo (a) anthracene | 0.0199 | 0.00500 | " | 0.0333 | ND | 59.8 | 30-120 | 9.27 | 30 |
| Benzo (a) pyrene | 0.0189 | 0.00500 | " | 0.0333 | ND | 56.7 | 30-120 | 10.8 | 30 |
| Benzo (b) fluoranthene | 0.0195 | 0.00500 | " | 0.0333 | ND | 58.5 | 30-120 | 12.3 | 30 |
| Benzo (k) fluoranthene | 0.0225 | 0.00500 | " | 0.0333 | ND | 67.5 | 30-120 | 11.6 | 30 |
| Chrysene | 0.0217 | 0.00500 | " | 0.0333 | ND | 65.1 | 30-120 | 9.53 | 30 |
| Dibenz (a,h) anthracene | 0.0197 | 0.00500 | " | 0.0333 | ND | 59.0 | 30-120 | 11.8 | 30 |
| Fluoranthene | 0.0234 | 0.00500 | " | 0.0333 | ND | 70.3 | 30-120 | 8.24 | 30 |
| Fluorene | 0.0220 | 0.00500 | " | 0.0333 | ND | 65.9 | 30-120 | 1.02 | 30 |
| Indeno (1,2,3-cd) pyrene | 0.0214 | 0.00500 | " | 0.0333 | ND | 64.3 | 30-120 | 8.15 | 30 |
| Pyrene | 0.0226 | 0.00500 | " | 0.0333 | ND | 67.8 | 35-142 | 11.5 | 30 |
| 1-Methylnaphthalene | 0.0228 | 0.00500 | " | 0.0333 | ND | 68.3 | 15-130 | 10.5 | 50 |
| 2-Methylnaphthalene | 0.0232 | 0.00500 | " | 0.0333 | ND | 69.6 | 15-130 | 2.12 | 50 |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0221 | | " | 0.0333 | | 66.2 | 40-150 | | |
| Surrogate: Fluoranthene-d10 | 0.0215 | | " | 0.0333 | | 64.6 | 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: Gutttersen 33-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/29/22 14:31

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 BFL0245 - EPA 3050B

Blank (BFL0245-BLK1)

Prepared: 12/09/22 Analyzed: 12/11/22

Boron ND 0.0100 mg/L

LCS (BFL0245-BS1)

Prepared: 12/09/22 Analyzed: 12/11/22

Boron 4.30 0.0100 mg/L 5.00 85.9 80-120

Duplicate (BFL0245-DUP1)

Source: 2212124-01

Prepared: 12/09/22 Analyzed: 12/11/22

Boron 0.0541 0.0100 mg/L 0.0587 8.19 20

Matrix Spike (BFL0245-MS1)

Source: 2212124-01

Prepared: 12/09/22 Analyzed: 12/11/22

Boron 4.49 0.0100 mg/L 5.00 0.0587 88.5 75-125

Matrix Spike Dup (BFL0245-MSD1)

Source: 2212124-01

Prepared: 12/09/22 Analyzed: 12/11/22

Boron 4.21 0.0100 mg/L 5.00 0.0587 83.1 75-125 6.29 25

Summit Scientific

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

Project: Guttersen 33-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/29/22 14:31

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 BFL0253 - General Preparation

Blank (BFL0253-BLK1)

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

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

LCS (BFL0253-BS1)

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

| | | | | | | |
|-----------|------|--------|----------|------|-----|--------|
| Calcium | 6.43 | 0.0500 | mg/L wet | 5.00 | 129 | 70-130 |
| Magnesium | 6.08 | 0.0500 | " | 5.00 | 122 | 70-130 |
| Sodium | 5.71 | 0.0500 | " | 5.00 | 114 | 70-130 |

Summit Scientific

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

Project: Guttersen 33-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/29/22 14:31

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 BFL0291 - General Preparation

Duplicate (BFL0291-DUP1)

Source: 2212122-01

Prepared & Analyzed: 12/12/22

| | | | | | |
|----------|------|---|------|--------|----|
| % Solids | 96.2 | % | 96.1 | 0.0999 | 20 |
|----------|------|---|------|--------|----|

Summit Scientific

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

Project: Guttersen 33-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/29/22 14:31

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 BFL0266 - General Preparation

Blank (BFL0266-BLK1)

Prepared & Analyzed: 12/10/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFL0266-BS1)

Prepared & Analyzed: 12/10/22

Specific Conductance (EC) 0.143 0.0100 mmhos/cm 0.150 95.3 95-105

Duplicate (BFL0266-DUP1)

Source: 2212123-01

Prepared & Analyzed: 12/10/22

Specific Conductance (EC) 0.519 0.0100 mmhos/cm 0.508 2.03 20

Summit Scientific

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

Project: Gutttersen 33-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/29/22 14:31

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 BFL0267 - General Preparation

LCS (BFL0267-BS1)

Prepared & Analyzed: 12/10/22

| | | | | | | |
|----|------|--|----------|------|------|--------|
| pH | 9.01 | | pH Units | 9.18 | 98.1 | 95-105 |
|----|------|--|----------|------|------|--------|

Duplicate (BFL0267-DUP1)

Source: 2212123-01

Prepared & Analyzed: 12/10/22

| | | | | | | |
|----|------|--|----------|------|-------|----|
| pH | 7.76 | | pH Units | 7.75 | 0.129 | 20 |
|----|------|--|----------|------|-------|----|

Batch BFL0720 - General Preparation

LCS (BFL0720-BS1)

Prepared & Analyzed: 12/29/22

| | | | | | | |
|----|------|--|----------|------|------|--------|
| pH | 9.05 | | pH Units | 9.18 | 98.6 | 95-105 |
|----|------|--|----------|------|------|--------|

Duplicate (BFL0720-DUP1)

Source: 2212124-03

Prepared & Analyzed: 12/29/22

| | | | | | | |
|----|------|--|----------|------|-------|----|
| pH | 7.15 | | pH Units | 7.13 | 0.280 | 20 |
|----|------|--|----------|------|-------|----|

Summit Scientific

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

Project: Guttersen 33-6 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
12/29/22 14:31

Notes and Definitions

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 80403

303.277.9310

December 13, 2022

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

Denver, CO 80203

RE: Guttersen 33-6 Wellhead

Work Order #2212166

Enclosed are the results of analyses for samples received by Summit Scientific on 12/07/22 17:59. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury
President



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

Project: Guttersen 33-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/13/22 15:37

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|------------|---------------|--------|----------------|----------------|
| FL01-02@5' | 2212166-01 | Soil | 12/07/22 12:45 | 12/07/22 17:59 |
| FL01-04@5' | 2212166-02 | Soil | 12/07/22 14:17 | 12/07/22 17:59 |

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

2212166

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

Page | of |

| | | | |
|-----------------|-----------------------|------------------|-------------------------|
| 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: | Guthersen 33-6 Wellhead |
| Sampler Name: | Emilia Wozniak | 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 | PAH - 915 | | | | | | pH, EC, SAR by saturated paste | |
| 1 | F601-02 (6) S1 | 12/17/22 | 1245 | 2 | | | X | | | X | | | X | X | X | | | | | | | | | | |
| 2 | F601-04 (6) S1 | ✓ | 1417 | 2 | | | X | | | X | | | X | X | X | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|-----------------------|---------------|--------------------|---------------|---------------------------|----------|--------|
| Relinquished by: | Date/Time: | Received by: | Date/Time: | Turn Around Time | (Check) | Notes: |
| <i>Emilia Wozniak</i> | 12/17/22 1657 | Tasman's Lock Box | 12/17/22 1657 | Same Day | 72 hours | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | 24 hours | Standard | |
| Tasman's Lock Box | 12/17/22 1759 | <i>[Signature]</i> | 12/17/22 1759 | 48 hours | | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | Sample Integrity: | | |
| | | | | Temperature Upon Receipt: | 9.3 | |
| | | | | Samples Intact: | (Yes) No | |

S₂

Sample Receipt Checklist

S2 Work Order# 2212166Client: POC/Trasman Client Project ID: Gutterman 33-le 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) 93Thermometer # 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"/> | ON ICE |
| 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. | | | | |

Custodian Printed Name

Date/Time

12.7.22



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

Project: Gutttersen 33-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/13/22 15:37

FL01-02@5'
2212166-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/07/22 12:45**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Benzene | ND | 0.0020 | mg/kg | 1 | BFL0240 | 12/09/22 | 12/11/22 | EPA 8260B | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | " | " | " | " | " | |

Date Sampled: **12/07/22 12:45**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0410 | 103 % | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0394 | 98.5 % | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0404 | 101 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/07/22 12:45**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BFL0243 | 12/09/22 | 12/10/22 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **12/07/22 12:45**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | |
| Surrogate: o-Terphenyl | 12.6 | 101 % | 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: Gutttersen 33-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/13/22 15:37

FL01-04@5'
2212166-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/07/22 14:17**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Benzene | ND | 0.0020 | mg/kg | 1 | BFL0240 | 12/09/22 | 12/11/22 | EPA 8260B | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | " | " | " | " | " | |

Date Sampled: **12/07/22 14:17**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0380 | 95.1 % | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0385 | 96.3 % | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0392 | 98.0 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/07/22 14:17**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BFL0243 | 12/09/22 | 12/10/22 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **12/07/22 14:17**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | |
| Surrogate: o-Terphenyl | 11.8 | 94.6 % | 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: Gutttersen 33-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/13/22 15:37

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 BFL0240 - EPA 5030 Soil MS

Blank (BFL0240-BLK1)

Prepared: 12/09/22 Analyzed: 12/11/22

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| 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 | 0.0401 | | " | 0.0400 | | 100 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0387 | | " | 0.0400 | | 96.8 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0406 | | " | 0.0400 | | 101 | 50-150 | | | |

LCS (BFL0240-BS1)

Prepared: 12/09/22 Analyzed: 12/11/22

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | 0.142 | 0.0020 | mg/kg | 0.125 | | 114 | 70-130 | | | |
| Toluene | 0.144 | 0.0050 | " | 0.125 | | 115 | 70-130 | | | |
| Ethylbenzene | 0.159 | 0.0050 | " | 0.125 | | 127 | 70-130 | | | |
| m,p-Xylene | 0.323 | 0.010 | " | 0.250 | | 129 | 70-130 | | | |
| o-Xylene | 0.149 | 0.0050 | " | 0.125 | | 119 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.160 | 0.0050 | " | 0.125 | | 128 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.153 | 0.0050 | " | 0.125 | | 122 | 70-130 | | | |
| Naphthalene | 0.131 | 0.0038 | " | 0.125 | | 105 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0390 | | " | 0.0400 | | 97.4 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0399 | | " | 0.0400 | | 99.8 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0376 | | " | 0.0400 | | 94.1 | 50-150 | | | |

Matrix Spike (BFL0240-MS1)

Source: 2212154-01

Prepared: 12/09/22 Analyzed: 12/11/22

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|----|------|--------|--|--|--|
| Benzene | 0.140 | 0.0020 | mg/kg | 0.125 | ND | 112 | 70-130 | | | |
| Toluene | 0.144 | 0.0050 | " | 0.125 | ND | 115 | 70-130 | | | |
| Ethylbenzene | 0.159 | 0.0050 | " | 0.125 | ND | 127 | 70-130 | | | |
| m,p-Xylene | 0.313 | 0.010 | " | 0.250 | ND | 125 | 70-130 | | | |
| o-Xylene | 0.145 | 0.0050 | " | 0.125 | ND | 116 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.154 | 0.0050 | " | 0.125 | ND | 124 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.162 | 0.0050 | " | 0.125 | ND | 129 | 70-130 | | | |
| Naphthalene | 0.143 | 0.0038 | " | 0.125 | ND | 114 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0418 | | " | 0.0400 | | 105 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0401 | | " | 0.0400 | | 100 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0384 | | " | 0.0400 | | 95.9 | 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: Gutttersen 33-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/13/22 15:37

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 BFL0240 - EPA 5030 Soil MS

| Matrix Spike Dup (BFL0240-MSD1) | Source: 2212154-01 | | | Prepared: 12/09/22 Analyzed: 12/11/22 | | | | | | |
|----------------------------------|--------------------|--------|-------|---------------------------------------|----|------|--------|-------|----|--|
| Benzene | 0.142 | 0.0020 | mg/kg | 0.125 | ND | 113 | 70-130 | 1.26 | 30 | |
| Toluene | 0.146 | 0.0050 | " | 0.125 | ND | 117 | 70-130 | 1.12 | 30 | |
| Ethylbenzene | 0.160 | 0.0050 | " | 0.125 | ND | 128 | 70-130 | 0.639 | 30 | |
| m,p-Xylene | 0.311 | 0.010 | " | 0.250 | ND | 124 | 70-130 | 0.577 | 30 | |
| o-Xylene | 0.147 | 0.0050 | " | 0.125 | ND | 118 | 70-130 | 1.23 | 30 | |
| 1,2,4-Trimethylbenzene | 0.160 | 0.0050 | " | 0.125 | ND | 128 | 70-130 | 3.59 | 30 | |
| 1,3,5-Trimethylbenzene | 0.162 | 0.0050 | " | 0.125 | ND | 130 | 70-130 | 0.278 | 30 | |
| Naphthalene | 0.154 | 0.0038 | " | 0.125 | ND | 123 | 70-130 | 7.72 | 30 | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0419 | | " | 0.0400 | | 105 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0399 | | " | 0.0400 | | 99.8 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0378 | | " | 0.0400 | | 94.4 | 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: Gutttersen 33-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/13/22 15:37

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 BFL0243 - EPA 3550A

Blank (BFL0243-BLK1)

Prepared: 12/09/22 Analyzed: 12/10/22

| | | | | | | | | | | |
|------------------------|------|----|-------|------|--|------|--------|--|--|--|
| C10-C28 (DRO) | ND | 50 | mg/kg | | | | | | | |
| C28-C36 (ORO) | ND | 50 | " | | | | | | | |
| Surrogate: o-Terphenyl | 12.0 | | " | 12.5 | | 96.3 | 30-150 | | | |

LCS (BFL0243-BS1)

Prepared: 12/09/22 Analyzed: 12/10/22

| | | | | | | | | | | |
|------------------------|------|----|-------|------|--|------|--------|--|--|--|
| C10-C28 (DRO) | 357 | 50 | mg/kg | 500 | | 71.3 | 70-130 | | | |
| Surrogate: o-Terphenyl | 13.5 | | " | 12.5 | | 108 | 30-150 | | | |

Matrix Spike (BFL0243-MS1)

Source: 2212154-01

Prepared: 12/09/22 Analyzed: 12/10/22

| | | | | | | | | | | |
|------------------------|------|----|-------|------|------|------|--------|--|--|--|
| C10-C28 (DRO) | 402 | 50 | mg/kg | 500 | 21.5 | 76.1 | 70-130 | | | |
| Surrogate: o-Terphenyl | 9.81 | | " | 12.5 | | 78.5 | 30-150 | | | |

Matrix Spike Dup (BFL0243-MSD1)

Source: 2212154-01

Prepared: 12/09/22 Analyzed: 12/10/22

| | | | | | | | | | | |
|------------------------|------|----|-------|------|------|------|--------|------|----|--|
| C10-C28 (DRO) | 427 | 50 | mg/kg | 500 | 21.5 | 81.2 | 70-130 | 6.11 | 20 | |
| Surrogate: o-Terphenyl | 13.7 | | " | 12.5 | | 110 | 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: Guttersen 33-6 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
12/13/22 15:37

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

December 14, 2022

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

Denver, CO 80203

RE: Guttersen 33-6 Wellhead

Work Order #2212185

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

Sincerely,



Mikayla Axtell For Paul Shrewsbury
President



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

Project: Guttersen 33-6 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
12/14/22 09:02

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|------------|---------------|--------|----------------|----------------|
| FL01-07@5' | 2212185-01 | Soil | 12/08/22 10:50 | 12/08/22 17:22 |

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

2212185

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: | Gutteresen 33-6 Wellhead |
| Sampler Name: | Emilia Wozniak | Project Number: | |

| 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 | PAH - 915 | | | |
| 1 | FL01-07 @ 5' | 12/8/22 | 1050 | 2 | | | X | | | X | | | | X | X | X | | | | | pH, EC, SAR by saturated paste |
| 2 | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|-------------------|---------------|-------------------|---------------|-------------------------------|----------|--------|
| Relinquished by: | Date/Time: | Received by: | Date/Time: | Turn Around Time | (Check) | Notes: |
| Emilia Wozniak | 12/8/22 11:15 | Tasman's Lock Box | 12/8/22 17:15 | Same Day | 72 hours | |
| | | | | 24 hours | Standard | |
| | | | | 48 hours | | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | Sample Integrity: | | |
| Tasman's Lock Box | 12/8/22 17:22 | [Signature] | 12/8/22 17:22 | Temperature Upon Receipt: 8.4 | | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | Samples Intact: Yes No | | |

S₂

Sample Receipt Checklist

S2 Work Order# 2212185Client: PC/TasmanClient Project ID: Guthers 33-6 well headShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐

Airbill #: _____

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

Matrix (Check all that apply)

Air

☐

Soil/Solid

☐

Water

☐

Other

☐

Temp (°C)

8.4

Thermometer #

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"/> | on ICE |
| 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. | | | | |

Custodian Printed Name

Date/Time

12.8.22



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

Project: Gutttersen 33-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/14/22 09:02

FL01-07@5'
2212185-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/08/22 10:50**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| Benzene | ND | 0.0020 | mg/kg | 1 | BFL0241 | 12/09/22 | 12/12/22 | 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: **12/08/22 10:50**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0370 | 92.6 % | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | 0.0386 | 96.6 % | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 0.0396 | 98.9 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/08/22 10:50**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | |
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BFL0244 | 12/09/22 | 12/10/22 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **12/08/22 10:50**

| Analyte | Result | Reporting | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | |
| Surrogate: o-Terphenyl | 11.4 | 90.9 % | 30-150 | | " | " | " | " | |

Summit Scientific

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

Project: Gutttersen 33-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/14/22 09:02

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 BFL0241 - EPA 5030 Soil MS

Blank (BFL0241-BLK1)

Prepared: 12/09/22 Analyzed: 12/11/22

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| 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 | 0.0384 | | " | 0.0400 | | 95.9 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0391 | | " | 0.0400 | | 97.8 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0399 | | " | 0.0400 | | 99.8 | 50-150 | | | |

LCS (BFL0241-BS1)

Prepared: 12/09/22 Analyzed: 12/11/22

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | 0.138 | 0.0020 | mg/kg | 0.125 | | 110 | 70-130 | | | |
| Toluene | 0.143 | 0.0050 | " | 0.125 | | 114 | 70-130 | | | |
| Ethylbenzene | 0.159 | 0.0050 | " | 0.125 | | 127 | 70-130 | | | |
| m,p-Xylene | 0.311 | 0.010 | " | 0.250 | | 124 | 70-130 | | | |
| o-Xylene | 0.145 | 0.0050 | " | 0.125 | | 116 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.155 | 0.0050 | " | 0.125 | | 124 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.161 | 0.0050 | " | 0.125 | | 129 | 70-130 | | | |
| Naphthalene | 0.132 | 0.0038 | " | 0.125 | | 106 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0386 | | " | 0.0400 | | 96.6 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0394 | | " | 0.0400 | | 98.4 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0376 | | " | 0.0400 | | 94.0 | 50-150 | | | |

Matrix Spike (BFL0241-MS1)

Source: 2212172-01

Prepared: 12/09/22 Analyzed: 12/11/22

| | | | | | | | | | | |
|----------------------------------|--------|--------|-------|--------|----|------|--------|--|--|--|
| Benzene | 0.137 | 0.0020 | mg/kg | 0.125 | ND | 109 | 70-130 | | | |
| Toluene | 0.143 | 0.0050 | " | 0.125 | ND | 114 | 70-130 | | | |
| Ethylbenzene | 0.159 | 0.0050 | " | 0.125 | ND | 127 | 70-130 | | | |
| m,p-Xylene | 0.311 | 0.010 | " | 0.250 | ND | 124 | 70-130 | | | |
| o-Xylene | 0.145 | 0.0050 | " | 0.125 | ND | 116 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.155 | 0.0050 | " | 0.125 | ND | 124 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.159 | 0.0050 | " | 0.125 | ND | 127 | 70-130 | | | |
| Naphthalene | 0.140 | 0.0038 | " | 0.125 | ND | 112 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0400 | | " | 0.0400 | | 100 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0398 | | " | 0.0400 | | 99.4 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0374 | | " | 0.0400 | | 93.4 | 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: Gutttersen 33-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/14/22 09:02

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 BFL0241 - EPA 5030 Soil MS

| Matrix Spike Dup (BFL0241-MSD1) | Source: 2212172-01 | | | Prepared: 12/09/22 Analyzed: 12/11/22 | | | | | | |
|----------------------------------|--------------------|--------|-------|---------------------------------------|----|------|--------|-------|----|--|
| Benzene | 0.137 | 0.0020 | mg/kg | 0.125 | ND | 110 | 70-130 | 0.153 | 30 | |
| Toluene | 0.143 | 0.0050 | " | 0.125 | ND | 114 | 70-130 | 0.00 | 30 | |
| Ethylbenzene | 0.160 | 0.0050 | " | 0.125 | ND | 128 | 70-130 | 0.885 | 30 | |
| m,p-Xylene | 0.310 | 0.010 | " | 0.250 | ND | 124 | 70-130 | 0.251 | 30 | |
| o-Xylene | 0.145 | 0.0050 | " | 0.125 | ND | 116 | 70-130 | 0.352 | 30 | |
| 1,2,4-Trimethylbenzene | 0.155 | 0.0050 | " | 0.125 | ND | 124 | 70-130 | 0.175 | 30 | |
| 1,3,5-Trimethylbenzene | 0.161 | 0.0050 | " | 0.125 | ND | 129 | 70-130 | 1.58 | 30 | |
| Naphthalene | 0.144 | 0.0038 | " | 0.125 | ND | 116 | 70-130 | 2.97 | 30 | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0390 | | " | 0.0400 | | 97.4 | 50-150 | | | |
| Surrogate: Toluene-d8 | 0.0394 | | " | 0.0400 | | 98.5 | 50-150 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0373 | | " | 0.0400 | | 93.3 | 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: Gutttersen 33-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/14/22 09:02

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 BFL0244 - EPA 3550A

Blank (BFL0244-BLK1)

Prepared & Analyzed: 12/09/22

| | | | | | | | | | | |
|------------------------|------|----|-------|------|--|------|--------|--|--|--|
| C10-C28 (DRO) | ND | 50 | mg/kg | | | | | | | |
| C28-C36 (ORO) | ND | 50 | " | | | | | | | |
| Surrogate: o-Terphenyl | 7.71 | | " | 12.5 | | 61.7 | 30-150 | | | |

LCS (BFL0244-BS1)

Prepared & Analyzed: 12/09/22

| | | | | | | | | | | |
|------------------------|------|----|-------|------|--|------|--------|--|--|--|
| C10-C28 (DRO) | 408 | 50 | mg/kg | 500 | | 81.7 | 70-130 | | | |
| Surrogate: o-Terphenyl | 8.90 | | " | 12.5 | | 71.2 | 30-150 | | | |

Matrix Spike (BFL0244-MS1)

Source: 2212172-01

Prepared & Analyzed: 12/09/22

| | | | | | | | | | | |
|------------------------|------|----|-------|------|------|------|--------|--|--|--|
| C10-C28 (DRO) | 403 | 50 | mg/kg | 500 | 23.9 | 75.8 | 70-130 | | | |
| Surrogate: o-Terphenyl | 9.24 | | " | 12.5 | | 73.9 | 30-150 | | | |

Matrix Spike Dup (BFL0244-MSD1)

Source: 2212172-01

Prepared & Analyzed: 12/09/22

| | | | | | | | | | | |
|------------------------|------|----|-------|------|------|------|--------|------|----|--|
| C10-C28 (DRO) | 386 | 50 | mg/kg | 500 | 23.9 | 72.3 | 70-130 | 4.34 | 20 | |
| Surrogate: o-Terphenyl | 7.04 | | " | 12.5 | | 56.3 | 30-150 | | | |

Summit Scientific

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

Project: Guttersen 33-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/14/22 09:02

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 |