

PDC Energy, Inc.
First Quarter 2022 Groundwater Monitoring Summary

February 3, 2022

Former Kristen 1 Wellhead
NENE Section 24 T4N R67W
Remediation # 16917

This groundwater monitoring summary has been prepared by Tasman, Inc. for the former Kristin 1 Wellhead.

Site History and Background

On May 7, 2021, a historic hydrocarbon release was discovered at the former wellhead during decommissioning activities. Following the discovery, mitigation activities were initiated and between May 7, and May 12, 2021, approximately 44 cubic yards of impacted material were removed from the former excavation. During excavation activities, groundwater was encountered in the excavation at approximately 3.5 feet below ground surface (bgs). Quarterly groundwater monitoring was initiated during the third quarter 2021.

Supplemental Site Investigation Activities

On January 4, 2022, two background soil borings (BKG03 & BKG04) were advanced to a depth of approximately 6 feet bgs to assess arsenic and selenium concentrations in native soil on site. Four (4) soil samples were collected at depths of 3 feet and 6 feet bgs and were submitted to Summit Scientific Laboratories for analysis of arsenic and selenium by EPA Method 6020B.

Analytical results indicated that arsenic and selenium concentrations were above the applicable COGCC Table 915-1 regulatory standards in both background soil boring locations. Based on the results, arsenic and selenium concentrations recorded in the samples collected from the final excavation extent are representative of native soil conditions. Background soil boring locations are illustrated on Figure 1. Soil analytical results are summarized in Table 1. The analytical report is included in Attachment A. Boring logs are included as Attachment B.

Groundwater Monitoring Activities

On January 4, 2022, groundwater monitoring was conducted at all five temporary monitoring wells (BH01 – BH05). Temporary monitoring wells were advanced via hand auger, gauged and sampled, and subsequently abandoned. Five groundwater samples were submitted to Summit

Scientific Laboratory for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), naphthalene, 1,2,4-trimethylbenzene (TMB), and 1,3,5-TMB by EPA Method 8260B.

First quarter 2022 analytical results indicated that organic compound concentrations were below the applicable COGCC Table 915-1 groundwater standards in all five monitoring well locations. Sample locations and corresponding analytical results are illustrated on Figure 2. Groundwater elevation data is illustrated on Figure 3. Groundwater analytical results are summarized in Table 2. The laboratory analytical report is included in Attachment A.

Current Remediation Activities and Path Forward

Monitored natural attenuation (MNA) was selected as the remediation strategy for this site during the third quarter 2021 and will remain the selected remediation strategy through the second quarter 2022.

Second quarter 2022 groundwater sampling will be conducted in April 2022.



Legend

- Excavation Extent (Collected via Trimble GPS)
- Underground Flowline Location (Collected via Trimble GPS)
- Groundwater Sample Location
- Soil Boring Location
- Temporary Monitoring Well Location (Collected via Trimble GPS)

Notes

All locations are approximate unless otherwise noted.

GPS – Global Positioning System

0 ft. 10 ft. 20 ft.

Image Source: Google Earth; July 2019
Projection: WGS 84 UTM Zone 13 North

| | |
|--------------|-----------------|
| DATE: | January 4, 2022 |
| DESIGNED BY: | C. Hamlin |
| DRAWN BY: | D. Vigil |

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

PDC Energy, Inc. – DJ Basin
Former Kristin 1 Wellhead
NENE, Section 24, Township 4 North, Range 67 West
Weld County, Colorado

**SOIL BORING
LOCATION MAP**

**FIGURE
1**

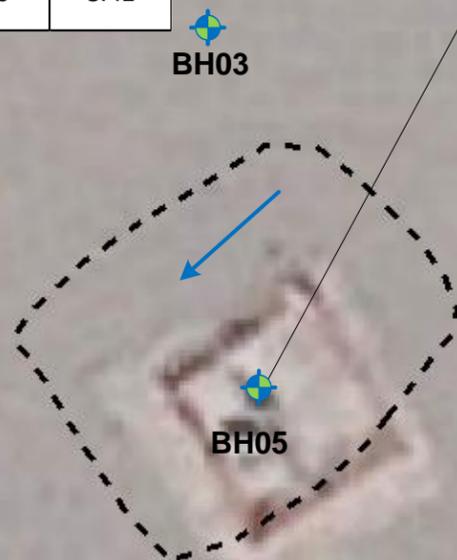
| BH03 | | |
|--------------------------|-----------|----------|
| Compound (µg/L) | 10/5/2021 | 1/4/2022 |
| Benzene | <1.0 | <1.0 |
| Toluene | <1.0 | <1.0 |
| Ethylbenzene | <1.0 | <1.0 |
| Total Xylenes | <2.0 | <2.0 |
| Naphthalene | <1.0 | <1.0 |
| 1,2,4-TMB | <1.0 | <1.0 |
| 1,3,5-TMB | <1.0 | <1.0 |
| Depth to water (ft. bgs) | 4.36 | 3.41 |

| BH05 | | |
|--------------------------|-----------|----------|
| Compound (µg/L) | 10/5/2021 | 1/4/2022 |
| Benzene | <1.0 | <1.0 |
| Toluene | <1.0 | <1.0 |
| Ethylbenzene | <1.0 | <1.0 |
| Total Xylenes | <2.0 | <2.0 |
| Naphthalene | <1.0 | <1.0 |
| 1,2,4-TMB | <1.0 | <1.0 |
| 1,3,5-TMB | <1.0 | <1.0 |
| Depth to water (ft. bgs) | 4.32 | 3.72 |

| BH02 | | |
|--------------------------|-----------|----------|
| Compound (µg/L) | 10/5/2021 | 1/4/2022 |
| Benzene | <1.0 | <1.0 |
| Toluene | <1.0 | <1.0 |
| Ethylbenzene | <1.0 | <1.0 |
| Total Xylenes | <2.0 | <2.0 |
| Naphthalene | <1.0 | <1.0 |
| 1,2,4-TMB | <1.0 | <1.0 |
| 1,3,5-TMB | <1.0 | <1.0 |
| Depth to water (ft. bgs) | 4.56 | 3.61 |

| BH04 | | |
|--------------------------|-----------|----------|
| Compound (µg/L) | 10/5/2021 | 1/4/2022 |
| Benzene | <1.0 | <1.0 |
| Toluene | <1.0 | <1.0 |
| Ethylbenzene | <1.0 | <1.0 |
| Total Xylenes | <2.0 | <2.0 |
| Naphthalene | <1.0 | <1.0 |
| 1,2,4-TMB | <1.0 | <1.0 |
| 1,3,5-TMB | <1.0 | <1.0 |
| Depth to water (ft. bgs) | 4.33 | 3.76 |

| BH01 | | |
|--------------------------|-----------|----------|
| Compound (µg/L) | 10/5/2021 | 1/4/2022 |
| Benzene | <1.0 | <1.0 |
| Toluene | <1.0 | <1.0 |
| Ethylbenzene | <1.0 | <1.0 |
| Total Xylenes | <2.0 | <2.0 |
| Naphthalene | <1.0 | <1.0 |
| 1,2,4-TMB | <1.0 | <1.0 |
| 1,3,5-TMB | <1.0 | <1.0 |
| Depth to water (ft. bgs) | 4.56 | 3.90 |



Legend

- Excavation Extent (Collected via Trimble GPS)
- Temporary Monitoring Well Location (Collected via Trimble GPS)
- Groundwater Flow Direction (1Q22)

Notes

All locations are approximate unless otherwise noted.

GPS – Global Positioning System

TMB – Trimethylbenzene

µg/L – Micrograms per liter

ft. bgs – Feet below ground surface

0 ft. 10 ft. 20 ft.

Image Source: Google Earth; 2019 Google
Projection: WGS 84 UTM Zone 13 North

DATE: February 3, 2022

DESIGNED BY: B. Nelson

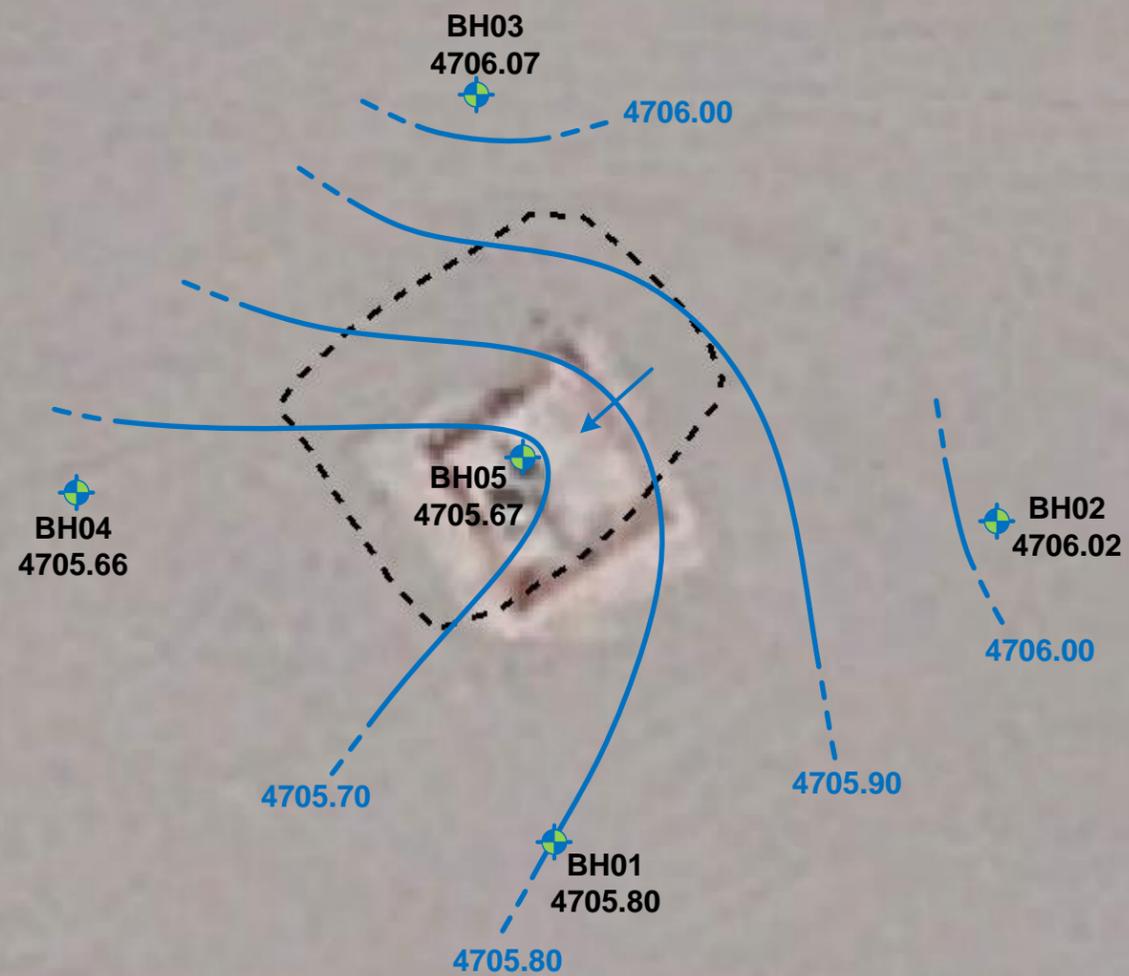
DRAWN BY: D. Vigil

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

PDC Energy, Inc. – DJ Basin
Former Kristin 1 Wellhead
NENE, Section 24, Township 4 North, Range 67 West
Weld County, Colorado

GROUNDWATER
ANALYTICAL RESULTS
MAP

FIGURE
2



Legend

- Temporary Monitoring Well Location (Collected via Trimble GPS)
- Groundwater Elevation Contour (Dashed where inferred)
- 4716.24** Groundwater Elevation (ft. AMSL)
- Groundwater Flow Direction (1Q22)

Notes

All locations are approximate unless otherwise noted.

ft. AMSL – Feet Above Mean Sea Level

GPS - Global Positioning System

0 ft. 10 ft. 20 ft.

Image Source: Google Earth; 2019 Google
Projection: WGS 84 UTM Zone 13 North

DATE: January 27, 2022

DESIGNED BY: B. Nelson

DRAWN BY: A. Dahl

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

PDC Energy, Inc. – DJ Basin
Former Kristin 1 Wellhead
NENE, Section 24, Township 4 North, Range 67 West
Weld County, Colorado

**GROUNDWATER
ELEVATION CONTOUR
MAP (01/04/2022)**

**FIGURE
3**

TABLE 1
FORMER KRISTIN 1 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 |
| WH01 @ 3' | 5/12/2021 | 3 ft. bgs | 1.56 | 71.9 | 0.246 | <0.30 ⁽⁴⁾ | 14.4 | 13.8 | 4.69 | 0.584 | 0.130 | 47.9 |
| BH01 @ 3' | 7/8/2021 | 3 ft. bgs | 1.12 | NA | NA | NA | NA | NA | NA | 0.633 | NA | NA |
| BH02 @ 3' | 7/8/2021 | 3 ft. bgs | 0.413 | NA | NA | NA | NA | NA | NA | 0.747 | NA | NA |
| BH03 @ 3' | 7/8/2021 | 3 ft. bgs | 0.344 | NA | NA | NA | NA | NA | NA | 0.591 | NA | NA |
| BH04 @ 3' | 7/8/2021 | 3 ft. bgs | 0.344 | NA | NA | NA | NA | NA | NA | 0.383 | NA | NA |
| BH05 @ 6' | 7/8/2021 | 6 ft. bgs | 3.62 | NA | NA | NA | NA | NA | NA | 1.01 | NA | NA |
| BKG02 @ 3' | 7/8/2021 | 3 ft. bgs | <0.210 | NA | NA | NA | NA | NA | NA | 0.344 | NA | NA |
| BKG03 @ 3' | 1/4/2022 | 3 ft. bgs | 0.246 | NA | NA | NA | NA | NA | NA | 0.364 | NA | NA |
| BKG03 @ 6' | 1/4/2022 | 6 ft. bgs | 1.39 | NA | NA | NA | NA | NA | NA | 0.290 | NA | NA |
| BKG04 @ 3' | 1/4/2022 | 3 ft. bgs | 2.88 | NA | NA | NA | NA | NA | NA | 0.702 | NA | NA |
| BKG04 @ 6' | 1/4/2022 | 6 ft. bgs | 4.19 | NA | NA | NA | NA | NA | NA | 1.35 | NA | NA |

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.
- COGCC = Colorado Oil and Gas Conservation Commission
(<) = Analytical result is less than the indicated laboratory reporting limit.
mg/kg = Milligrams per kilogram
= Source material characterization sample
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.
NA = Constituent not analyzed

TABLE 2
FORMER KRISTIN 1 WELLHEAD
GROUNDWATER ANALYTICAL RESULTS SUMMARY TABLE
ORGANIC COMPOUNDS

| Sample ID | Date Sampled | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | Naphthalene (µg/L) | 1,2,4-TMB (µg/L) | 1,3,5-TMB (µg/L) | Depth to Water ⁽²⁾ (ft.) | Groundwater Elevation (ft. AMSL) |
|---|--------------|----------------|----------------|---------------------|----------------------|--------------------|------------------|------------------|-------------------------------------|----------------------------------|
| COGCC Table 915-1 Groundwater Standard (µg/L) ⁽¹⁾ | | 5 | 560 | 700 | 1,400 | 140 | 67 | 67 | - | - |
| GW01 | 5/12/2021 | 280 | 83 | 110 | 1,900 | 43 | 160 | 130 | 3.5 | NA |
| BH01 | 7/8/2021 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | 3.31 | 4706.52 |
| BH01 | 10/5/2021 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | 4.56 | 4704.62 |
| BH01 | 1/4/2022 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | 3.90 | 4705.80 |
| BH02 | 7/8/2021 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | 3.31 | 4706.48 |
| BH02 | 10/5/2021 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | 4.56 | 4704.57 |
| BH02 | 1/4/2022 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | 3.61 | 4706.02 |
| BH03 | 7/8/2021 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | 3.05 | 4706.50 |
| BH03 | 10/5/2021 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | 4.36 | 4704.58 |
| BH03 | 1/4/2022 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | 3.41 | 4706.07 |
| BH04 | 7/8/2021 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | 3.07 | 4706.55 |
| BH04 | 10/5/2021 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | 4.33 | 4704.65 |
| BH04 | 1/4/2022 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | 3.76 | 4705.66 |
| BH05 | 7/8/2021 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | 2.82 | 4706.81 |
| BH05 | 10/5/2021 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | 4.32 | 4704.57 |
| BH05 | 1/4/2022 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | 3.72 | 4705.67 |

Notes:

1. Groundwater standards referenced from 2 CCR 404-1, Table 915-1, January 15, 2021.
 2. Depth to water measurements were measured from ground surface for excavation samples. Monitoring well measurements were collected from top of casing and adjusted using survey data to reflect depth of water from ground surface.
- TMB = Trimethylbenzene
COGCC = Colorado Oil and Gas Conservation Commission
µg/L = Micrograms per liter
(<) = Analytical result is less than the indicated laboratory reporting limit.
ft. = Feet
AMSL = Above Mean Sea Level
NA = Not applicable
BOLD = Analytical result is in exceedance of applicable standard.

Attachment A

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

February 04, 2022

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

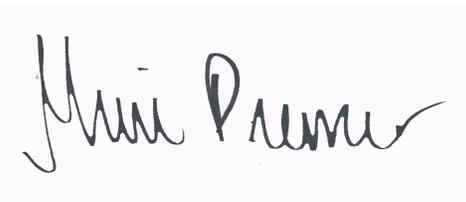
Denver, CO 80203

RE: Kristin 1 Wellhead

Work Order #2201017

Enclosed are the results of analyses for samples received by Summit Scientific on 01/04/22 14:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer

Project Manager



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

Project: Kristin 1 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
02/04/22 17:42

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| BKG03@3' | 2201017-01 | Soil | 01/04/22 10:50 | 01/04/22 14:15 |
| BKG03@6' | 2201017-02 | Soil | 01/04/22 11:05 | 01/04/22 14:15 |
| BKG04@3' | 2201017-03 | Soil | 01/04/22 11:55 | 01/04/22 14:15 |
| BKG04@6' | 2201017-04 | Soil | 01/04/22 12:10 | 01/04/22 14:15 |

Summit Scientific

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

S₂

2201017

Sample Receipt Checklist

S2 Work Order# _____

Client: Doc Fraszman Client Project ID: Kristen 1 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) 11.4

Thermometer ID: G86A9201901378

| | 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 if there is evidence that cooling has begun. | - | | | ON ICE |
| Were all samples received intact ⁽¹⁾ ? | - | | | |
| Was adequate sample volume provided ⁽¹⁾ ? | - | | | |
| If custody seals are present, are they intact ⁽¹⁾ ? | - | | | |
| Are samples with holding times due within 48 hours sample due within 48 hours present? | | - | | |
| 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 ₂ SO ₄ , NaOH, HNO ₃ , etc. | | | - | |
| If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments. | | | - | |
| If dissolved metals are requested, were samples field filtered? | | | - | |

Additional Comments (if any):

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

[Signature]
Custodian Printed Name or Initials

1.4.22
Date/Time



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

Project: Kristin 1 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 02/04/22 17:42

BKG03@3'
2201017-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **01/04/22 10:50**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 0.246 | 0.200 | mg/kg dry | 1 | BFA0096 | 01/06/22 | 01/07/22 | EPA 6020B | |
| Selenium | 0.364 | 0.260 | " | " | " | " | " | " | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/04/22 10:50**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------|-------------|-----------|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | Units | | | | | | |
| % Solids | 95.3 | | % | 1 | BFA0072 | 01/05/22 | 01/05/22 | 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: Kristin 1 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 02/04/22 17:42

BKG03@6'
2201017-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **01/04/22 11:05**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 1.39 | 0.200 | mg/kg dry | 1 | BFA0096 | 01/06/22 | 01/07/22 | EPA 6020B | |
| Selenium | 0.290 | 0.260 | " | " | " | " | " | " | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/04/22 11:05**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|-------------|-----------|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | Units | | | | | | |
| % Solids | 91.3 | | % | 1 | BFA0072 | 01/05/22 | 01/05/22 | Calculation | |

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

Project: Kristin 1 Wellhead
 Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 02/04/22 17:42

BKG04@3'
2201017-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **01/04/22 11:55**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 2.88 | 0.200 | mg/kg dry | 1 | BFA0096 | 01/06/22 | 01/07/22 | EPA 6020B | |
| Selenium | 0.702 | 0.260 | " | " | " | " | " | " | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/04/22 11:55**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|-------------|-----------|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | Units | | | | | | |
| % Solids | 95.7 | | % | 1 | BFA0072 | 01/05/22 | 01/05/22 | Calculation | |

Summit Scientific

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

Project: Kristin 1 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 02/04/22 17:42

BKG04@6'
2201017-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **01/04/22 12:10**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-----------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 4.19 | 0.200 | mg/kg dry | 1 | BFA0096 | 01/06/22 | 01/07/22 | EPA 6020B | |
| Selenium | 1.35 | 0.260 | " | " | " | " | " | " | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/04/22 12:10**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-------|----------|---------|----------|----------|-------------|-------|
| | | Limit | Units | | | | | | |
| % Solids | 79.4 | | % | 1 | BFA0072 | 01/05/22 | 01/05/22 | 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: Kristin 1 Wellhead

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 02/04/22 17:42

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BFA0096 - EPA 3050B

Blank (BFA0096-BLK1)

Prepared: 01/06/22 Analyzed: 01/07/22

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

LCS (BFA0096-BS1)

Prepared: 01/06/22 Analyzed: 01/07/22

| | | | | | | | | | | |
|----------|------|-------|-----------|------|------|--------|--|--|--|--|
| Arsenic | 40.2 | 0.200 | mg/kg wet | 40.0 | 100 | 80-120 | | | | |
| Selenium | 3.87 | 0.260 | " | 4.00 | 96.7 | 80-120 | | | | |

Duplicate (BFA0096-DUP1)

Source: 2112046-05

Prepared: 01/06/22 Analyzed: 01/07/22

| | | | | | | | | | | |
|----------|-------|-------|-----------|--|-------|--|------|----|--|--|
| Arsenic | 2.58 | 0.200 | mg/kg dry | | 2.73 | | 5.75 | 20 | | |
| Selenium | 0.748 | 0.260 | " | | 0.813 | | 8.36 | 20 | | |

Matrix Spike (BFA0096-MS1)

Source: 2112046-05

Prepared: 01/06/22 Analyzed: 01/07/22

| | | | | | | | | | | |
|----------|------|-------|-----------|------|-------|------|--------|--|--|--|
| Arsenic | 43.2 | 0.200 | mg/kg dry | 43.5 | 2.73 | 93.0 | 75-125 | | | |
| Selenium | 4.19 | 0.260 | " | 4.35 | 0.813 | 77.8 | 75-125 | | | |

Matrix Spike Dup (BFA0096-MSD1)

Source: 2112046-05

Prepared: 01/06/22 Analyzed: 01/07/22

| | | | | | | | | | | |
|----------|------|-------|-----------|------|-------|------|--------|-------|----|--|
| Arsenic | 43.5 | 0.200 | mg/kg dry | 43.5 | 2.73 | 93.8 | 75-125 | 0.754 | 25 | |
| Selenium | 4.43 | 0.260 | " | 4.35 | 0.813 | 83.2 | 75-125 | 5.42 | 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: Kristin 1 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 02/04/22 17:42

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

Summit Scientific

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

Batch BFA0072 - General Preparation

Duplicate (BFA0072-DUP1)

Source: 2201017-01

Prepared & Analyzed: 01/05/22

| | | | | | | | | | | | |
|----------|------|--|---|--|------|--|--|-------|--|----|--|
| % Solids | 96.2 | | % | | 95.3 | | | 0.927 | | 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: Kristin 1 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
02/04/22 17:42

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

January 10, 2022

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

Denver, CO 80203

RE: Kristin 1 Wellhead

Work Order #2201032

Enclosed are the results of analyses for samples received by Summit Scientific on 01/04/22 17:24. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large, stylized 'M' and 'P'.

Muri Premer

Project Manager



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

Project: Kristin 1 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
01/10/22 14:43

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| BH01 | 2201032-01 | Water | 01/04/22 14:32 | 01/04/22 17:24 |
| BH02 | 2201032-02 | Water | 01/04/22 14:38 | 01/04/22 17:24 |
| BH03 | 2201032-03 | Water | 01/04/22 14:44 | 01/04/22 17:24 |
| BH04 | 2201032-04 | Water | 01/04/22 14:30 | 01/04/22 17:24 |
| BH05 | 2201032-05 | Water | 01/04/22 14:23 | 01/04/22 17:24 |

Summit Scientific

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

S₂

2201032

Sample Receipt Checklist

S2 Work Order#

Client: Pfeiffersman Client Project ID: Kristina Iwellhead

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

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

Temp (°C) 7.3

Thermometer ID: G86A9201901378

| | 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 if there is evidence that cooling has begun. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | on ICE |
| 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 checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Are samples with holding times due within 48 hours sample due within 48 hours present? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input 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 checked="" type="checkbox"/> | <input 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 checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | HCl |
| 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.

[Signature]
Custodian Printed Name or Initials

1422
Date/Time



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

Project: Kristin 1 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 01/10/22 14:43

BH01
2201032-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/04/22 14:32**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Benzene | ND | 1.0 | ug/l | 1 | BFA0077 | 01/05/22 | 01/06/22 | EPA 8260B | |
| Toluene | ND | 1.0 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 1.0 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 2.0 | " | " | " | " | " | " | |
| Naphthalene | ND | 1.0 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | " | " | " | " | " | " | |

Date Sampled: **01/04/22 14:32**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|-------|----------|-------|----------|----------|--------|-------|
| | | Limit | Units | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 100 % | | 23-173 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 102 % | | 20-170 | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 99.7 % | | 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: Kristin 1 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 01/10/22 14:43

BH02
2201032-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/04/22 14:38**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Benzene | ND | 1.0 | ug/l | 1 | BFA0077 | 01/05/22 | 01/06/22 | EPA 8260B | |
| Toluene | ND | 1.0 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 1.0 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 2.0 | " | " | " | " | " | " | |
| Naphthalene | ND | 1.0 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | " | " | " | " | " | " | |

Date Sampled: **01/04/22 14:38**

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

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 01/10/22 14:43

BH03
2201032-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/04/22 14:44**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Benzene | ND | 1.0 | ug/l | 1 | BFA0077 | 01/05/22 | 01/06/22 | EPA 8260B | |
| Toluene | ND | 1.0 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 1.0 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 2.0 | " | " | " | " | " | " | |
| Naphthalene | ND | 1.0 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | " | " | " | " | " | " | |

Date Sampled: **01/04/22 14:44**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | Units | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 107 % | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 111 % | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 101 % | 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: Kristin 1 Wellhead

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 01/10/22 14:43

BH04
2201032-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/04/22 14:30**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Benzene | ND | 1.0 | ug/l | 1 | BFA0077 | 01/05/22 | 01/06/22 | EPA 8260B | |
| Toluene | ND | 1.0 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 1.0 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 2.0 | " | " | " | " | " | " | |
| Naphthalene | ND | 1.0 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | " | " | " | " | " | " | |

Date Sampled: **01/04/22 14:30**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | Units | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 119 % | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 119 % | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 109 % | 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: Kristin 1 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 01/10/22 14:43

BH05
2201032-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/04/22 14:23**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Benzene | ND | 1.0 | ug/l | 1 | BFA0077 | 01/05/22 | 01/06/22 | EPA 8260B | |
| Toluene | ND | 1.0 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 1.0 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 2.0 | " | " | " | " | " | " | |
| Naphthalene | ND | 1.0 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | " | " | " | " | " | " | |

Date Sampled: **01/04/22 14:23**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | Units | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 107 % | 23-173 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 101 % | 20-170 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 101 % | 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: Kristin 1 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
01/10/22 14:43

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFA0077 - EPA 5030 Water MS

Blank (BFA0077-BLK1)

Prepared & Analyzed: 01/05/22

| | | | | | | | | | | | |
|---|------|-----|------|------|--|------|--|--------|--|--|--|
| Benzene | ND | 1.0 | ug/l | | | | | | | | |
| Toluene | ND | 1.0 | " | | | | | | | | |
| Ethylbenzene | ND | 1.0 | " | | | | | | | | |
| Xylenes (total) | ND | 2.0 | " | | | | | | | | |
| Naphthalene | ND | 1.0 | " | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | " | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | " | | | | | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 13.3 | | " | 13.3 | | 100 | | 23-173 | | | |
| <i>Surrogate: Toluene-d8</i> | 13.2 | | " | 13.3 | | 98.6 | | 20-170 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 13.8 | | " | 13.3 | | 103 | | 21-167 | | | |

LCS (BFA0077-BS1)

Prepared & Analyzed: 01/05/22

| | | | | | | | | | | | |
|---|------|-----|------|------|--|------|--|--------|--|--|--|
| Benzene | 34.8 | 1.0 | ug/l | 33.3 | | 104 | | 51-132 | | | |
| Toluene | 37.5 | 1.0 | " | 33.3 | | 112 | | 51-138 | | | |
| Ethylbenzene | 37.7 | 1.0 | " | 33.3 | | 113 | | 58-146 | | | |
| m,p-Xylene | 84.3 | 2.0 | " | 66.7 | | 126 | | 57-144 | | | |
| o-Xylene | 39.8 | 1.0 | " | 33.3 | | 119 | | 53-146 | | | |
| Naphthalene | 38.9 | 1.0 | " | 33.3 | | 117 | | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 30.9 | 1.0 | " | 33.3 | | 92.8 | | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 33.0 | 1.0 | " | 33.3 | | 99.2 | | 70-130 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 14.2 | | " | 13.3 | | 107 | | 23-173 | | | |
| <i>Surrogate: Toluene-d8</i> | 13.6 | | " | 13.3 | | 102 | | 20-170 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 14.0 | | " | 13.3 | | 105 | | 21-167 | | | |

Matrix Spike (BFA0077-MS1)

Source: 2112491-01

Prepared & Analyzed: 01/05/22

| | | | | | | | | | | | |
|---|------|-----|------|------|----|------|--|--------|--|--|--|
| Benzene | 35.3 | 1.0 | ug/l | 33.3 | ND | 106 | | 34-141 | | | |
| Toluene | 38.0 | 1.0 | " | 33.3 | ND | 114 | | 27-151 | | | |
| Ethylbenzene | 38.0 | 1.0 | " | 33.3 | ND | 114 | | 29-160 | | | |
| m,p-Xylene | 85.0 | 2.0 | " | 66.7 | ND | 128 | | 20-166 | | | |
| o-Xylene | 39.6 | 1.0 | " | 33.3 | ND | 119 | | 33-159 | | | |
| Naphthalene | 42.2 | 1.0 | " | 33.3 | ND | 127 | | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 31.8 | 1.0 | " | 33.3 | ND | 95.3 | | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 33.6 | 1.0 | " | 33.3 | ND | 101 | | 70-130 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 14.4 | | " | 13.3 | | 108 | | 23-173 | | | |
| <i>Surrogate: Toluene-d8</i> | 13.5 | | " | 13.3 | | 101 | | 20-170 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 14.1 | | " | 13.3 | | 106 | | 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: Kristin 1 Wellhead
 Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 01/10/22 14:43

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

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

Batch BFA0077 - EPA 5030 Water MS

| Matrix Spike Dup (BFA0077-MSD1) | Source: 2112491-01 | | | Prepared & Analyzed: 01/05/22 | | | | | | |
|---|---------------------------|-----|----------|--|----|------------|---------------|-------|----|--|
| Benzene | 35.8 | 1.0 | ug/l | 33.3 | ND | 107 | 34-141 | 1.46 | 30 | |
| Toluene | 38.6 | 1.0 | " | 33.3 | ND | 116 | 27-151 | 1.59 | 30 | |
| Ethylbenzene | 37.6 | 1.0 | " | 33.3 | ND | 113 | 29-160 | 1.24 | 30 | |
| m,p-Xylene | 84.9 | 2.0 | " | 66.7 | ND | 127 | 20-166 | 0.188 | 30 | |
| o-Xylene | 39.4 | 1.0 | " | 33.3 | ND | 118 | 33-159 | 0.380 | 30 | |
| Naphthalene | 35.4 | 1.0 | " | 33.3 | ND | 106 | 70-130 | 17.6 | 30 | |
| 1,2,4-Trimethylbenzene | 31.3 | 1.0 | " | 33.3 | ND | 94.0 | 70-130 | 1.33 | 30 | |
| 1,3,5-Trimethylbenzene | 32.8 | 1.0 | " | 33.3 | ND | 98.3 | 70-130 | 2.50 | 30 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>14.5</i> | | <i>"</i> | <i>13.3</i> | | <i>109</i> | <i>23-173</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>13.7</i> | | <i>"</i> | <i>13.3</i> | | <i>103</i> | <i>20-170</i> | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>14.1</i> | | <i>"</i> | <i>13.3</i> | | <i>106</i> | <i>21-167</i> | | | |

Summit Scientific

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



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

Project: Kristin 1 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
01/10/22 14:43

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

Attachment B



Borehole Logging Form

BOREHOLE ID: BKG03 **SITE NAME:** Kristen 1 **CLIENT NAME:** PDC ENERGY
Date Started: 12/4/22^{0v} 1/4/22 **Location:** NE of POC
Date Completed: 1/4/22 **Surface Completion:** - **DTW:** 5' **TD:** 6'
Drilling Company: Tasman **Geologist:** David V. **Project Manager:** Brock Nelson
Bit Size: 2 3/8" **Type of Drill:** Hand Auger

Well Const. Material: Diameter: - Screen: - Riser: -

| Depth (feet) | Well Completion | Sample Type | % Recovery | PID (ppm) | Laboratory Sample | USCS | Description |
|--------------|-----------------|-------------|------------|-----------|-------------------|------|--|
| 1 | NA | ↑ | ↑ | 0.0 | | | Light brown, sand, fine to coarse grain, trace gravel, well graded, moist, no odor |
| 2 | | ↑ | ↑ | 0.0 | | SW | |
| 3 | | HA | 100% | 0.1 | BKG0203 | | |
| 4 | | ↓ | ↓ | 0.1 | 1090 | | |
| 5 | | ↓ | ↓ | 0.0 | | | |
| 6 | | ↓ | ↓ | 0.2 | BKG0206 | 1105 | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
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TASMAN
GEOSCIENCES

Borehole Logging Form

| | | |
|---|---------------------------|-------------------------------|
| BOREHOLE ID: BKG04 | SITE NAME: Kristen 1 | CLIENT NAME: PDC ENERGY |
| Date Started: 1/4/22 | Location: SW of POC | |
| Date Completed: 1/4/22 | Surface Completion: - | DTW: 5' TD: 6' |
| Drilling Company: Tasman | Geologist: David V. | Project Manager: Brock Nelson |
| Bit Size 2 3/8" | Type of Drill: Hand Auger | |
| Well Const. Material: Diameter: - Screen: - | | Riser: - |

| Depth (feet) | Well Completion | Sample Type | % Recovery | PID (ppm) | Laboratory Sample | USCS | Description |
|--------------|-----------------|-------------|------------|-----------|-------------------|---------|--|
| 1 | NA | ↑ | ↑ | 0.0 | | | Light brown, sand, fine to large coarse grain, trace gravel, well graded, moist, no odor |
| 2 | | ↑ | ↑ | 0.0 | | SW | |
| 3 | | HA | 100% | 0.1 | BK60303 | | |
| 4 | | ↓ | ↓ | 0.8 | 1155 | | |
| 5 | | ↓ | ↓ | 1.1 | | SC | |
| 6 | | ↓ | ↓ | 1.8 | 1210 | BK60306 | |
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