

TABLE 1
FORMER WHITE 27-6 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'	2/15/2023	6 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50
FLR01 @ 4'	2/15/2023	4 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50
FL01-02 @ 4'	2/15/2023	4 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50
FL01-05 @ 4'	2/15/2023	4 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50
FL01-06 @ 4'	2/16/2023	4 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50
FL01-07 @ 4'	2/16/2023	4 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50

Notes:

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

COGCC = Colorado Oil and Gas Conservation Commission

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

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

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

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

mg/kg = Milligrams per kilogram

TMB = Trimethylbenzene

ft. = Feet

bgs = Below ground surface

TABLE 2
FORMER WHITE 27-6 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'	2/15/2023	6 ft. bgs	9.78	0.354	0.494	0.0526
FLR01 @ 4'	2/15/2023	4 ft. bgs	7.62	0.315	0.484	0.0703
SB01 @ 1'	7/26/2023	1 ft. bgs	7.83	NA	NA	NA
SB01 @ 2.5'	7/26/2023	2.5 ft. bgs	7.51	NA	NA	NA
SB01 @ 4'	7/26/2023	4 ft. bgs	7.38	NA	NA	NA
SB01 @ 5'	7/26/2023	5 ft. bgs	7.83	NA	NA	NA
SB01 @ 6'	7/26/2023	6 ft. bgs	8.11	NA	NA	NA
SB01 @ 7'	7/26/2023	7 ft. bgs	7.98	NA	NA	NA
SB02 @ 6'	7/26/2023	6 ft. bgs	7.87	NA	NA	NA
SB03 @ 6'	7/26/2023	6 ft. bgs	7.93	NA	NA	NA
SB04 @ 6'	7/26/2023	6 ft. bgs	8.06	NA	NA	NA
SB05 @ 6'	7/26/2023	6 ft. bgs	7.57	NA	NA	NA
BKG01 @ 4'	2/15/2023	4 ft. bgs	7.96	NA	NA	NA
BKG01 @ 6'	2/15/2023	6 ft. bgs	8.32	NA	NA	NA
BKG02 @ 1'	7/26/2023	1 ft. bgs	6.39	NA	NA	NA
BKG02 @ 2.5'	7/26/2023	2.5 ft. bgs	8.15	NA	NA	NA
BKG02 @ 4'	7/26/2023	4 ft. bgs	7.98	NA	NA	NA
BKG02 @ 5'	7/26/2023	5 ft. bgs	7.94	NA	NA	NA
BKG03 @ 1'	7/26/2023	1 ft. bgs	7.42	NA	NA	NA
BKG03 @ 2.5'	7/26/2023	2.5 ft. bgs	7.43	NA	NA	NA
BKG03 @ 4'	7/26/2023	4 ft. bgs	7.00	NA	NA	NA
BKG03 @ 5'	7/26/2023	5 ft. bgs	7.76	NA	NA	NA
BKG03 @ 6'	7/26/2023	6 ft. bgs	7.70	NA	NA	NA
BKG04 @ 1'	7/26/2023	1 ft. bgs	8.10	NA	NA	NA
BKG04 @ 2.5'	7/26/2023	2.5 ft. bgs	7.74	NA	NA	NA
BKG04 @ 4'	7/26/2023	4 ft. bgs	7.78	NA	NA	NA
BKG04 @ 5'	7/26/2023	5 ft. bgs	7.74	NA	NA	NA
BKG04 @ 6'	7/26/2023	6 ft. bgs	7.84	NA	NA	NA
BKG05 @ 1'	7/26/2023	1 ft. bgs	8.05	NA	NA	NA
BKG05 @ 2.5'	7/26/2023	2.5 ft. bgs	7.68	NA	NA	NA
BKG05 @ 4'	7/26/2023	4 ft. bgs	7.47	NA	NA	NA
BKG05 @ 5'	7/26/2023	5 ft. bgs	7.50	NA	NA	NA

TABLE 2
FORMER WHITE 27-6 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
BKG05 @ 6'	7/26/2023	6 ft. bgs	7.97	NA	NA	NA
BKG05 @ 7'	7/26/2023	7 ft. bgs	8.07	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.

NA = Constituent not analyzed

TABLE 3
FORMER WHITE 27-6 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'	2/15/2023	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'	2/15/2023	4 ft. bgs	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Notes:

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

COGCC = Colorado Oil and Gas Conservation Commission

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

PAHs = Polycyclic aromatic hydrocarbons

Benz(a) = Benzanthracene

Benzo(a) = Benzopyrene

Benzo(b) = Benzofluoranthene

Benzo(k) = Benzofluoranthene

A,H = Dibenzoanthracene

1,2,3-CD = Indenopyrene

M = Methylnaphthalene

mg/kg = Milligrams per kilogram

ft. = Feet

bgs = Below ground surface

TABLE 4
FORMER WHITE 27-6 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	7/26/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	5	NA

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

TABLE 5
FORMER WHITE 27-6 WELLHEAD
FIELD DATA SUMMARY TABLE

Sample ID	Date Sampled	Depth	GPS Data ⁽¹⁾ Latitude / Longitude		PDOP Value	VOC Concentration ⁽²⁾ (ppm)
WH01 @ 6' ⁽³⁾	2/15/2023	6 ft. bgs	40.372218	-104.542853	NC	0.1
FLR01 @ 4'	2/15/2023	4 ft. bgs	40.372220	-104.542821	0.9	0.0
WHS01-N @ 0-6"	2/15/2023	0-6 in. bgs	40.372269	-104.542848	NC	0.0
WHS01-E @ 0-6"	2/15/2023	0-6 in. bgs	40.372227	-104.542788	NC	0.1
WHS01-S @ 0-6"	2/15/2023	0-6 in. bgs	40.372190	-104.542850	NC	0.1
WHS01-W @ 0-6"	2/15/2023	0-6 in. bgs	40.372217	-104.542904	NC	0.0
FL01-01 @ 4'	2/15/2023	4 ft. bgs	40.375399	-104.542819	0.8	0.0
FL01-02 @ 4'	2/15/2023	4 ft. bgs	40.375152	-104.542496	0.9	0.1
FL01-03 @ 4'	2/15/2023	4 ft. bgs	40.374840	-104.542074	0.9	0.0
FL01-04 @ 4'	2/15/2023	4 ft. bgs	40.374452	-104.541786	0.9	0.0
FL01-05 @ 4'	2/15/2023	4 ft. bgs	40.373738	-104.541325	0.9	0.1
FL01-06 @ 4'	2/16/2023	4 ft. bgs	40.372821	-104.541495	0.7	0.1
FL01-07 @ 4'	2/16/2023	4 ft. bgs	40.372241	-104.542203	0.8	0.1
SB01 @ 1'	7/26/2023	1 ft. bgs	40.372211	-104.542843	NC	0.1
SB01 @ 2.5'	7/26/2023	2.5 ft. bgs	40.372211	-104.542843	NC	0.0
SB01 @ 4'	7/26/2023	4 ft. bgs	40.372211	-104.542843	NC	0.0
SB01 @ 5'	7/26/2023	5 ft. bgs	40.372211	-104.542843	NC	0.0
SB01 @ 6'	7/26/2023	6 ft. bgs	40.372211	-104.542843	NC	0.0
SB01 @ 7'	7/26/2023	7 ft. bgs	40.372211	-104.542843	NC	0.1
SB02 @ 6'	7/26/2023	6 ft. bgs	40.372259	-104.542844	NC	0.0
SB03 @ 6'	7/26/2023	6 ft. bgs	40.372210	-104.542898	NC	0.0
SB04 @ 6'	7/26/2023	6 ft. bgs	40.372174	-104.542844	NC	0.0
SB05 @ 6'	7/26/2023	6 ft. bgs	40.372207	-104.542784	NC	0.1
BKG01 @ 4'	2/15/2023	4 ft. bgs	40.372113	-104.542899	0.8	0.1
BKG01 @ 6'	2/15/2023	6 ft. bgs	40.372113	-104.542899	0.8	0.0
BKG02 @ 1'	7/26/2023	1 ft. bgs	40.372213	-104.543085	NC	0.0
BKG02 @ 2.5'	7/26/2023	2.5 ft. bgs	40.372213	-104.543085	NC	0.0
BKG02 @ 4'	7/26/2023	4 ft. bgs	40.372213	-104.543085	NC	0.0
BKG02 @ 5'	7/26/2023	5 ft. bgs	40.372213	-104.543085	NC	0.0
BKG03 @ 1'	7/26/2023	1 ft. bgs	40.372302	-104.542561	NC	0.0
BKG03 @ 2.5'	7/26/2023	2.5 ft. bgs	40.372302	-104.542561	NC	0.0
BKG03 @ 4'	7/26/2023	4 ft. bgs	40.372302	-104.542561	NC	0.1
BKG03 @ 5'	7/26/2023	5 ft. bgs	40.372302	-104.542561	NC	0.0
BKG03 @ 6'	7/26/2023	6 ft. bgs	40.372302	-104.542561	NC	0.0
BKG04 @ 1'	7/26/2023	1 ft. bgs	40.372341	-104.542843	NC	0.0
BKG04 @ 2.5'	7/26/2023	2.5 ft. bgs	40.372341	-104.542843	NC	0.0
BKG04 @ 4'	7/26/2023	4 ft. bgs	40.372341	-104.542843	NC	0.0
BKG04 @ 5'	7/26/2023	5 ft. bgs	40.372341	-104.542843	NC	0.0
BKG04 @ 6'	7/26/2023	6 ft. bgs	40.372341	-104.542843	NC	0.0

TABLE 5
FORMER WHITE 27-6 WELLHEAD
FIELD DATA SUMMARY TABLE

Sample ID	Date Sampled	Depth	GPS Data ⁽¹⁾ Latitude / Longitude		PDOP Value	VOC Concentration ⁽²⁾ (ppm)
BKG05 @ 1'	7/26/2023	1 ft. bgs	40.372106	-104.542666	NC	0.0
BKG05 @ 2.5'	7/26/2023	2.5 ft. bgs	40.372106	-104.542666	NC	0.0
BKG05 @ 4'	7/26/2023	4 ft. bgs	40.372106	-104.542666	NC	0.0
BKG05 @ 5'	7/26/2023	5 ft. bgs	40.372106	-104.542666	NC	0.0
BKG05 @ 6'	7/26/2023	6 ft. bgs	40.372106	-104.542666	NC	0.0
BKG05 @ 7'	7/26/2023	7 ft. bgs	40.372106	-104.542666	NC	0.0

Notes:

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum (NAD) 83 UTM Zone 13 North.
2. Volatile organic compound (VOC) concentrations are measured in the field using a photoionization detector (PID).
3. GPS points were unable to be collected from these locations. Due to the depth and perceived stability of the excavation sidewall at the time of collection, safety was prioritized.

PDOP = Position Dilution of Precision

ppm = Parts per million

ft. = Feet

in. = Inches

bgs = Below ground surface

NC = Data not collected

ATTACHMENT A

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 02, 2023

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

Denver, CO 80203

RE: White 27-6 Wellhead

Work Order #2302310

Enclosed are the results of analyses for samples received by Summit Scientific on 02/15/23 17:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Sheely".

Scott Sheely For Paul Shrewsbury
President



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

Project: White 27-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/02/23 11:22

ANALYTICAL REPORT FOR SAMPLES

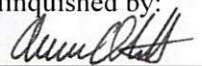
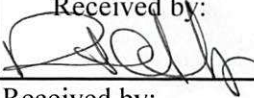

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6'	2302310-01	Soil	02/15/23 13:30	02/15/23 17:40
FLR01@4'	2302310-02	Soil	02/15/23 13:40	02/15/23 17:40
FL01-02@4'	2302310-03	Soil	02/15/23 14:40	02/15/23 17:40
FL01-05@4'	2302310-04	Soil	02/15/23 15:00	02/15/23 17:40
BKG01@4'	2302310-05	Soil	02/15/23 14:20	02/15/23 17:40
BKG01@6'	2302310-06	Soil	02/15/23 14:25	02/15/23 17:40

Summit Scientific

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

Client: PDC / Tasman		Send Data To: Project Manager: Mark Longhurst		Send Invoice To: Company: PDC Energy	
Address: 6855 W 119th Ave		E-Mail: mark.longhurst@PDCE.com		Project Name/Location:	
City/State/Zip: Broomfield / CO / 80220				AFE#:	
Phone: 303-487-1228		Project Name: White 27-6 Wellhead		PO/Billing Codes:	
Sampler Name: Aaron Otillar		Project Number:		Contact: Mark Longhurst	

					Preservative				Matrix				Analysis Requested								Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other _____	Water	Soil	Air-Canister #	Other _____	BTEXN - 8260B	TPH - (C6 - C36)	1,2,4 & 1,3,5-TMB	Boron - HWS	pH, EC, SAR	PAH - 915	ON HOLD			
1	WHOLE 6'	2/15/23	1330	3			X			X			X	X	X	X	X	X	X			
2	FL01@4'		1340	3									X	X	X	X	X	X	X			
3	AO SEPA-FL@4'		1505	2									X	X	X							
4	FL01-02@4'		1440	2									X	X	X							
5	FL01-05@4'		1500	2									X	X	X							
6	BK01@4'		1420	1																X		
7	BK01@6'		1425	1																X		
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						

Relinquished by: 	Date/Time: 2/15/23 1630	Received by: TASMAN LOCKBOX	Date/Time: 2/15/23 1630	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: Tasman LockBox	Date/Time: 2/15/23 1740	Received by: 	Date/Time: 2/15/23 1740	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 8.0	Corrected Temperature: 	IR gun #: 1	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2302310Client: Procterman Client Project ID: White 27-6 wellheadShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☐ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 8.0Thermometer # 1

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

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

2/15/23
 Date/Time



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

Project: White 27-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/02/23 11:22

WH01@6'
2302310-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/15/23 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BGB0481	02/16/23	02/17/23	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: **02/15/23 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0263	65.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0322	80.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0351	87.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/15/23 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BGB0483	02/16/23	02/17/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/15/23 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	13.6	109 %	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: White 27-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/02/23 11:22

WH01@6'
2302310-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/15/23 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BGB0574	02/20/23	02/21/23	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: **02/15/23 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0207	62.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0242	72.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/15/23 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.0526	0.0100	mg/L	1	BGB0522	02/17/23	02/19/23	EPA 6020B	

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

Date Sampled: **02/15/23 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

Summit Scientific

The results in 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: White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/02/23 11:22

WH01@6'
2302310-01 (Soil)

Summit Scientific

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

Calcium	27.9	0.0537	mg/L dry	1	BGB0672	02/21/23	02/23/23	EPA 6020B
Magnesium	1.02	0.0537	"	"	"	"	"	"
Sodium	9.76	0.0537	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **02/15/23 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.494	0.00100	units	1	BGB0749	02/23/23	02/23/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/15/23 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.1		%	1	BGB0615	02/20/23	02/21/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/15/23 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.354	0.0100	mmhos/cm	1	BGB0716	02/22/23	02/22/23	EPA 120.1	

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

Date Sampled: **02/15/23 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.78		pH Units	1	BGB0717	02/22/23	02/22/23	EPA 9045D	

Summit Scientific

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

Project: White 27-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/02/23 11:22

FLR01@4'
2302310-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/15/23 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGB0481	02/16/23	02/17/23	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: **02/15/23 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0277	69.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0325	81.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0350	87.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/15/23 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGB0483	02/16/23	02/17/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/15/23 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	13.2	106 %	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: White 27-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/02/23 11:22

FLR01@4'
2302310-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/15/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGB0574	02/20/23	02/21/23	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: **02/15/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0225	67.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0280	83.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/15/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0703	0.0100	mg/L	1	BGB0522	02/17/23	02/19/23	EPA 6020B	

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

Date Sampled: **02/15/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

The results in 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: White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/02/23 11:22

FLR01@4'
2302310-02 (Soil)

Summit Scientific

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

Calcium	21.2	0.0568	mg/L dry	1	BGB0672	02/21/23	02/23/23	EPA 6020B
Magnesium	7.17	0.0568	"	"	"	"	"	"
Sodium	10.1	0.0568	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **02/15/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.484	0.00100	units	1	BGB0749	02/23/23	02/23/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/15/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.0		%	1	BGB0615	02/20/23	02/21/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/15/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.315	0.0100	mmhos/cm	1	BGB0716	02/22/23	02/22/23	EPA 120.1	

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

Date Sampled: **02/15/23 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.62		pH Units	1	BGB0717	02/22/23	02/22/23	EPA 9045D	

Summit Scientific

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

Project: White 27-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/02/23 11:22

FL01-02@4'
2302310-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/15/23 14:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGB0481	02/16/23	02/17/23	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: **02/15/23 14:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0272	68.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0326	81.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0362	90.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/15/23 14:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGB0483	02/16/23	02/17/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/15/23 14:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.2	97.3 %	30-150		"	"	"	"	

Summit Scientific

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

Project: White 27-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/02/23 11:22

FL01-05@4'
2302310-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/15/23 15:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGB0481	02/16/23	02/17/23	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: **02/15/23 15:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0302	75.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0328	81.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0373	93.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/15/23 15:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGB0483	02/16/23	02/17/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/15/23 15:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.0	95.8 %	30-150		"	"	"	"	

Summit Scientific

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

Project: White 27-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/02/23 11:22

BKG01@4'
2302310-05 (Soil)

Summit Scientific

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

Date Sampled: **02/15/23 14:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.96			pH Units	1	BGC0032	03/01/23	03/01/23	EPA 9045D	I-02

Summit Scientific

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

Project: White 27-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/02/23 11:22

BKG01@6'
2302310-06 (Soil)

Summit Scientific

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

Date Sampled: **02/15/23 14:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.32			pH Units	1	BGC0032	03/01/23	03/01/23	EPA 9045D	I-02

Summit Scientific

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

Project: White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/02/23 11:22

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 BGB0481 - EPA 5030 Soil MS

LCS (BGB0481-BS1)

Prepared & Analyzed: 02/16/23

Benzene	0.0789	0.0020	mg/kg	0.0750		105	70-130
Toluene	0.0727	0.0050	"	0.0750		96.9	70-130
Ethylbenzene	0.0724	0.0050	"	0.0750		96.5	70-130
m,p-Xylene	0.183	0.010	"	0.150		122	70-130
o-Xylene	0.0916	0.0050	"	0.0750		122	70-130
1,2,4-Trimethylbenzene	0.0811	0.0050	"	0.0750		108	70-130
1,3,5-Trimethylbenzene	0.0875	0.0050	"	0.0750		117	70-130
Naphthalene	0.0803	0.0038	"	0.0750		107	70-130
Surrogate: 1,2-Dichloroethane-d4	0.0249		"	0.0400		62.2	50-150
Surrogate: Toluene-d8	0.0313		"	0.0400		78.3	50-150
Surrogate: 4-Bromofluorobenzene	0.0344		"	0.0400		85.9	50-150

Matrix Spike (BGB0481-MS1)

Source: 2302307-01

Prepared & Analyzed: 02/16/23

Benzene	0.0766	0.0020	mg/kg	0.0750	ND	102	70-130
Toluene	0.0710	0.0050	"	0.0750	ND	94.6	70-130
Ethylbenzene	0.0689	0.0050	"	0.0750	ND	91.9	70-130
m,p-Xylene	0.191	0.010	"	0.150	ND	127	70-130
o-Xylene	0.0880	0.0050	"	0.0750	ND	117	70-130
1,2,4-Trimethylbenzene	0.0797	0.0050	"	0.0750	ND	106	70-130
1,3,5-Trimethylbenzene	0.0833	0.0050	"	0.0750	ND	111	70-130
Naphthalene	0.0836	0.0038	"	0.0750	ND	112	70-130
Surrogate: 1,2-Dichloroethane-d4	0.0239		"	0.0400		59.8	50-150
Surrogate: Toluene-d8	0.0307		"	0.0400		76.6	50-150
Surrogate: 4-Bromofluorobenzene	0.0344		"	0.0400		86.1	50-150

Matrix Spike Dup (BGB0481-MSD1)

Source: 2302307-01

Prepared & Analyzed: 02/16/23

Benzene	0.0832	0.0020	mg/kg	0.0750	ND	111	70-130	8.30	30
Toluene	0.0766	0.0050	"	0.0750	ND	102	70-130	7.68	30
Ethylbenzene	0.0716	0.0050	"	0.0750	ND	95.4	70-130	3.76	30
m,p-Xylene	0.195	0.010	"	0.150	ND	130	70-130	2.16	30
o-Xylene	0.0934	0.0050	"	0.0750	ND	124	70-130	5.96	30
1,2,4-Trimethylbenzene	0.0821	0.0050	"	0.0750	ND	109	70-130	2.93	30
1,3,5-Trimethylbenzene	0.0848	0.0050	"	0.0750	ND	113	70-130	1.75	30
Naphthalene	0.0863	0.0038	"	0.0750	ND	115	70-130	3.14	30
Surrogate: 1,2-Dichloroethane-d4	0.0283		"	0.0400		70.6	50-150		
Surrogate: Toluene-d8	0.0314		"	0.0400		78.6	50-150		
Surrogate: 4-Bromofluorobenzene	0.0353		"	0.0400		88.4	50-150		

Summit Scientific

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

Project: White 27-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/02/23 11:22

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 BGB0483 - EPA 3550A

Blank (BGB0483-BLK1)

Prepared & Analyzed: 02/16/23

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

Surrogate: o-Terphenyl	10.8	"	12.5	86.3	30-150
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LCS (BGB0483-BS1)

Prepared & Analyzed: 02/16/23

C10-C28 (DRO)	484	50	mg/kg	500	96.9	70-130
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Surrogate: o-Terphenyl	11.0	"	12.5	88.2	30-150
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Matrix Spike (BGB0483-MS1)

Source: 2302307-01

Prepared & Analyzed: 02/16/23

C10-C28 (DRO)	471	50	mg/kg	500	16.9	90.8	70-130
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Surrogate: o-Terphenyl	10.0	"	12.5	80.2	30-150
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Matrix Spike Dup (BGB0483-MSD1)

Source: 2302307-01

Prepared & Analyzed: 02/16/23

C10-C28 (DRO)	477	50	mg/kg	500	16.9	92.1	70-130	1.35	20
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Surrogate: o-Terphenyl	10.5	"	12.5	83.6	30-150
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Summit Scientific

The results in 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: White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/02/23 11:22

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGB0574 - EPA 5030 Soil MS

Blank (BGB0574-BLK1)

Prepared & Analyzed: 02/20/23

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	0.0323		"	0.0333		96.8	40-150			
Surrogate: Fluoranthene-d10	0.0334		"	0.0333		100	40-150			

LCS (BGB0574-BS1)

Prepared & Analyzed: 02/20/23

Acenaphthene	0.0318	0.00500	mg/kg	0.0333		95.5	31-137			
Anthracene	0.0318	0.00500	"	0.0333		95.3	30-120			
Benzo (a) anthracene	0.0309	0.00500	"	0.0333		92.7	30-120			
Benzo (a) pyrene	0.0312	0.00500	"	0.0333		93.6	30-120			
Benzo (b) fluoranthene	0.0319	0.00500	"	0.0333		95.8	30-120			
Benzo (k) fluoranthene	0.0326	0.00500	"	0.0333		97.7	30-120			
Chrysene	0.0315	0.00500	"	0.0333		94.5	30-120			
Dibenz (a,h) anthracene	0.0260	0.00500	"	0.0333		78.1	30-120			
Fluoranthene	0.0314	0.00500	"	0.0333		94.1	30-120			
Fluorene	0.0324	0.00500	"	0.0333		97.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0311	0.00500	"	0.0333		93.2	30-120			
Pyrene	0.0345	0.00500	"	0.0333		104	35-142			
1-Methylnaphthalene	0.0310	0.00500	"	0.0333		92.9	35-142			
2-Methylnaphthalene	0.0289	0.00500	"	0.0333		86.7	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0307		"	0.0333		92.2	40-150			
Surrogate: Fluoranthene-d10	0.0315		"	0.0333		94.4	40-150			

Summit Scientific

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



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

Project: White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/02/23 11:22

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGB0574 - EPA 5030 Soil MS

Matrix Spike (BGB0574-MS1)

Source: 2302295-06

Prepared & Analyzed: 02/20/23

Acenaphthene	0.0209	0.00500	mg/kg	0.0333	ND	62.8	31-137		
Anthracene	0.0202	0.00500	"	0.0333	ND	60.6	30-120		
Benzo (a) anthracene	0.0212	0.00500	"	0.0333	ND	63.5	30-120		
Benzo (a) pyrene	0.0200	0.00500	"	0.0333	ND	59.9	30-120		
Benzo (b) fluoranthene	0.0209	0.00500	"	0.0333	ND	62.6	30-120		
Benzo (k) fluoranthene	0.0202	0.00500	"	0.0333	ND	60.6	30-120		
Chrysene	0.0200	0.00500	"	0.0333	ND	60.1	30-120		
Dibenz (a,h) anthracene	0.0156	0.00500	"	0.0333	ND	46.8	30-120		
Fluoranthene	0.0211	0.00500	"	0.0333	ND	63.3	30-120		
Fluorene	0.0210	0.00500	"	0.0333	ND	63.1	30-120		
Indeno (1,2,3-cd) pyrene	0.0194	0.00500	"	0.0333	ND	58.2	30-120		
Pyrene	0.0223	0.00500	"	0.0333	ND	67.0	35-142		
1-Methylnaphthalene	0.0253	0.00500	"	0.0333	ND	76.0	15-130		
2-Methylnaphthalene	0.0180	0.00500	"	0.0333	ND	53.9	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0245		"	0.0333		73.5	40-150		
Surrogate: Fluoranthene-d10	0.0214		"	0.0333		64.1	40-150		

Matrix Spike Dup (BGB0574-MSD1)

Source: 2302295-06

Prepared & Analyzed: 02/20/23

Acenaphthene	0.0227	0.00500	mg/kg	0.0333	ND	68.2	31-137	8.19	30
Anthracene	0.0205	0.00500	"	0.0333	ND	61.5	30-120	1.46	30
Benzo (a) anthracene	0.0226	0.00500	"	0.0333	ND	67.7	30-120	6.34	30
Benzo (a) pyrene	0.0217	0.00500	"	0.0333	ND	65.1	30-120	8.23	30
Benzo (b) fluoranthene	0.0229	0.00500	"	0.0333	ND	68.7	30-120	9.33	30
Benzo (k) fluoranthene	0.0221	0.00500	"	0.0333	ND	66.4	30-120	9.13	30
Chrysene	0.0217	0.00500	"	0.0333	ND	65.2	30-120	8.10	30
Dibenz (a,h) anthracene	0.0167	0.00500	"	0.0333	ND	50.1	30-120	6.71	30
Fluoranthene	0.0221	0.00500	"	0.0333	ND	66.2	30-120	4.52	30
Fluorene	0.0218	0.00500	"	0.0333	ND	65.3	30-120	3.45	30
Indeno (1,2,3-cd) pyrene	0.0193	0.00500	"	0.0333	ND	57.9	30-120	0.450	30
Pyrene	0.0239	0.00500	"	0.0333	ND	71.8	35-142	6.86	30
1-Methylnaphthalene	0.0203	0.00500	"	0.0333	ND	60.9	15-130	22.0	50
2-Methylnaphthalene	0.0210	0.00500	"	0.0333	ND	63.1	15-130	15.6	50
Surrogate: 2-Methylnaphthalene-d10	0.0217		"	0.0333		65.0	40-150		
Surrogate: Fluoranthene-d10	0.0219		"	0.0333		65.8	40-150		

Summit Scientific

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

Project: White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/02/23 11:22

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

Batch BGB0522 - EPA 3050B

Blank (BGB0522-BLK1)

Prepared: 02/17/23 Analyzed: 02/19/23

Boron ND 0.0100 mg/L

LCS (BGB0522-BS1)

Prepared: 02/17/23 Analyzed: 02/19/23

Boron 5.77 0.0100 mg/L 5.00 115 80-120

Duplicate (BGB0522-DUP1)

Source: 2302294-01

Prepared: 02/17/23 Analyzed: 02/19/23

Boron 0.0799 0.0100 mg/L 0.0624 24.6 20 QR-03

Matrix Spike (BGB0522-MS1)

Source: 2302294-01

Prepared: 02/17/23 Analyzed: 02/19/23

Boron 5.81 0.0100 mg/L 5.00 0.0624 115 75-125

Matrix Spike Dup (BGB0522-MSD1)

Source: 2302294-01

Prepared: 02/17/23 Analyzed: 02/19/23

Boron 5.96 0.0100 mg/L 5.00 0.0624 118 75-125 2.41 25

Summit Scientific

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

Project: White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/02/23 11:22

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 BGB0672 - General Preparation

Blank (BGB0672-BLK1)

Prepared: 02/21/23 Analyzed: 02/23/23

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

LCS (BGB0672-BS1)

Prepared: 02/21/23 Analyzed: 02/23/23

Calcium	4.16	0.0500	mg/L wet	5.00	83.2	70-130
Magnesium	5.05	0.0500	"	5.00	101	70-130
Sodium	5.15	0.0500	"	5.00	103	70-130

Summit Scientific

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

Project: White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/02/23 11:22

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 BGB0615 - General Preparation

Duplicate (BGB0615-DUP1)		Source: 2302304-01			Prepared: 02/20/23 Analyzed: 02/21/23					
% Solids	82.1		%		81.0		1.29		20	

Summit Scientific

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

Project: White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/02/23 11:22

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 BGB0716 - General Preparation

Blank (BGB0716-BLK1)

Prepared & Analyzed: 02/22/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGB0716-BS1)

Prepared & Analyzed: 02/22/23

Specific Conductance (EC) 0.148 0.0100 mmhos/cm 0.150 98.9 95-105

Duplicate (BGB0716-DUP1)

Source: 2302307-01

Prepared & Analyzed: 02/22/23

Specific Conductance (EC) 0.324 0.0100 mmhos/cm 0.328 1.44 20

Summit Scientific

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

Project: White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/02/23 11:22

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 BGB0717 - General Preparation

LCS (BGB0717-BS1)

Prepared & Analyzed: 02/22/23

pH	9.20		pH Units	9.18	100	95-105
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Duplicate (BGB0717-DUP1)

Source: 2302307-01

Prepared & Analyzed: 02/22/23

pH	8.80		pH Units	8.67		1.49	20
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Batch BGC0032 - General Preparation

LCS (BGC0032-BS1)

Prepared & Analyzed: 03/01/23

pH	9.11		pH Units	9.18	99.2	95-105
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Duplicate (BGC0032-DUP1)

Source: 2302307-04

Prepared & Analyzed: 03/01/23

pH	7.71		pH Units	7.71		0.00	20
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Summit Scientific

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

Project: White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/02/23 11:22

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
I-02	This sample was analyzed outside of the recommended holding time.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

February 22, 2023

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

Denver, CO 80203

RE: White 27-6 Wellhead

Work Order #2302338

Enclosed are the results of analyses for samples received by Summit Scientific on 02/16/23 17:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Sheely".

Scott Sheely For Paul Shrewsbury
President



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

Project: White 27-6 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
02/22/23 14:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01-06@4'	2302338-01	Soil	02/16/23 12:49	02/16/23 17:55
FL01-07@4'	2302338-02	Soil	02/16/23 12:55	02/16/23 17:55

Summit Scientific

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

Client: PDC / Tasman		Send Data To:		Send Invoice To:	
Address: 6855 W 119th Ave		Project Manager: Mark Longhurst		Company: PDC Energy	
City/State/Zip: Broomfield / CO / 80220		E-Mail: mark.longhurst@PDCE.com		Project Name/Location:	
Phone: 303-487-1228		Project Name: White 27-6 Wellhead		AFE#:	
Sampler Name: Aaron Otilar		Project Number:		PO/Billing Codes:	
				Contact: Mark Longhurst	

					Preservative				Matrix				Analysis Requested							Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other _____	Water	Soil	Air-Canister #	Other _____	BTEXN - 8260B	TPH - (C6 - C36)	1,2,4 & 1,3,5-TMB	Boron - HWS	pH, EC, SAR				
1	FL01-0624	2/16/23	1249	2			X			X			X	X	X						
2	FL01-0724	2/16/23	1255	2			X			X			X	X	X						
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by:	Date/Time: 2/16/23 1530	Received by: Tasman LockBox	Date/Time: 2/16/23 1530	TAT Business Days	Field DO	Notes:
Relinquished by: Tasman LockBox	Date/Time: 2/16/23 1755	Received by:	Date/Time: 2/16/23 1755	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 8.0	Corrected Temperature:	IR gun #: 1	HNO3 lot #:	Standard	Field Turb.	

S₂

Sample Receipt Checklist

S2 Work Order# 2302338Client: Pacherman Client Project ID: White 27-6 wellheadShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☐ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 8.0 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

2/14/23
 Date/Time



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

Project: White 27-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
02/22/23 14:06

FL01-06@4'
2302338-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/16/23 12:49**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGB0524	02/17/23	02/17/23	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: **02/16/23 12:49**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0329	82.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0326	81.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0363	90.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/16/23 12:49**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGB0525	02/17/23	02/17/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/16/23 12:49**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	13.1	105 %	30-150		"	"	"	"	

Summit Scientific

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

Project: White 27-6 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
02/22/23 14:06

FL01-07@4'
2302338-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/16/23 12:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGB0524	02/17/23	02/17/23	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: **02/16/23 12:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0286	71.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0321	80.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0373	93.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/16/23 12:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGB0525	02/17/23	02/17/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/16/23 12:55**

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: White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
02/22/23 14:06

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 BGB0524 - EPA 5030 Soil MS

Blank (BGB0524-BLK1)

Prepared & Analyzed: 02/17/23

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	0.0281		"	0.0400		70.4	50-150			
Surrogate: Toluene-d8	0.0331		"	0.0400		82.7	50-150			
Surrogate: 4-Bromofluorobenzene	0.0355		"	0.0400		88.6	50-150			

LCS (BGB0524-BS1)

Prepared & Analyzed: 02/17/23

Benzene	0.0809	0.0020	mg/kg	0.100		80.9	70-130			
Toluene	0.0747	0.0050	"	0.100		74.7	70-130			
Ethylbenzene	0.102	0.0050	"	0.100		102	70-130			
m,p-Xylene	0.196	0.010	"	0.200		97.9	70-130			
o-Xylene	0.0916	0.0050	"	0.100		91.6	70-130			
1,2,4-Trimethylbenzene	0.0821	0.0050	"	0.100		82.1	70-130			
1,3,5-Trimethylbenzene	0.0869	0.0050	"	0.100		86.9	70-130			
Naphthalene	0.0887	0.0038	"	0.100		88.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0248		"	0.0400		61.9	50-150			
Surrogate: Toluene-d8	0.0316		"	0.0400		79.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0354		"	0.0400		88.6	50-150			

Matrix Spike (BGB0524-MS1)

Source: 2302325-01

Prepared & Analyzed: 02/17/23

Benzene	0.0822	0.0020	mg/kg	0.100	ND	82.2	70-130			
Toluene	0.0766	0.0050	"	0.100	ND	76.6	70-130			
Ethylbenzene	0.0996	0.0050	"	0.100	ND	99.6	70-130			
m,p-Xylene	0.194	0.010	"	0.200	ND	97.1	70-130			
o-Xylene	0.0905	0.0050	"	0.100	ND	90.5	70-130			
1,2,4-Trimethylbenzene	0.0816	0.0050	"	0.100	ND	81.6	70-130			
1,3,5-Trimethylbenzene	0.0868	0.0050	"	0.100	ND	86.8	70-130			
Naphthalene	0.0916	0.0038	"	0.100	ND	91.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0255		"	0.0400		63.8	50-150			
Surrogate: Toluene-d8	0.0325		"	0.0400		81.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0338		"	0.0400		84.6	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: White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
02/22/23 14:06

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 BGB0524 - EPA 5030 Soil MS

Matrix Spike Dup (BGB0524-MSD1)	Source: 2302325-01			Prepared & Analyzed: 02/17/23						
Benzene	0.0790	0.0020	mg/kg	0.100	ND	79.0	70-130	3.91	30	
Toluene	0.0739	0.0050	"	0.100	ND	73.9	70-130	3.63	30	
Ethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130	1.97	30	
m,p-Xylene	0.199	0.010	"	0.200	ND	99.4	70-130	2.40	30	
o-Xylene	0.0909	0.0050	"	0.100	ND	90.9	70-130	0.397	30	
1,2,4-Trimethylbenzene	0.0827	0.0050	"	0.100	ND	82.7	70-130	1.35	30	
1,3,5-Trimethylbenzene	0.0874	0.0050	"	0.100	ND	87.4	70-130	0.723	30	
Naphthalene	0.0920	0.0038	"	0.100	ND	92.0	70-130	0.490	30	
Surrogate: 1,2-Dichloroethane-d4	0.0237		"	0.0400		59.2	50-150			
Surrogate: Toluene-d8	0.0314		"	0.0400		78.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0340		"	0.0400		85.1	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: White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
02/22/23 14:06

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 BGB0525 - EPA 3550A

Blank (BGB0525-BLK1)

Prepared & Analyzed: 02/17/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	15.8		"	12.5		127	30-150			

LCS (BGB0525-BS1)

Prepared & Analyzed: 02/17/23

C10-C28 (DRO)	476	50	mg/kg	500		95.1	70-130			
Surrogate: o-Terphenyl	15.7		"	12.5		126	30-150			

Matrix Spike (BGB0525-MS1)

Source: 2302325-01

Prepared & Analyzed: 02/17/23

C10-C28 (DRO)	473	50	mg/kg	500	12.2	92.1	70-130			
Surrogate: o-Terphenyl	17.8		"	12.5		142	30-150			

Matrix Spike Dup (BGB0525-MSD1)

Source: 2302325-01

Prepared & Analyzed: 02/17/23

C10-C28 (DRO)	427	50	mg/kg	500	12.2	83.0	70-130	10.1	20	
Surrogate: o-Terphenyl	14.2		"	12.5		114	30-150			

Summit Scientific

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

Project: White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
02/22/23 14:06

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 04, 2023

Mark Longhurst

Tasman Geosciences

6855 W. 119th Ave.

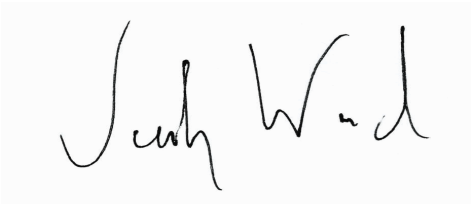
Broomfield, CO 80020

RE: PDC - White 27-6 Wellhead

Work Order #2307505

Enclosed are the results of analyses for samples received by Summit Scientific on 07/26/23 17:48. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

Jacob Wood For Paul Shrewsbury

President



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/04/23 08:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB01@1'	2307505-01	Soil	07/26/23 11:32	07/26/23 17:48
SB01@2.5'	2307505-02	Soil	07/26/23 11:33	07/26/23 17:48
SB01@4'	2307505-03	Soil	07/26/23 11:34	07/26/23 17:48
SB01@5'	2307505-04	Soil	07/26/23 11:35	07/26/23 17:48
SB01@6'	2307505-05	Soil	07/26/23 11:36	07/26/23 17:48
SB01@7'	2307505-06	Soil	07/26/23 11:37	07/26/23 17:48
SB02@6'	2307505-11	Soil	07/26/23 12:00	07/26/23 17:48
SB03@6'	2307505-17	Soil	07/26/23 12:19	07/26/23 17:48
SB04@6'	2307505-23	Soil	07/26/23 11:50	07/26/23 17:48
SB05@6'	2307505-28	Soil	07/26/23 11:32	07/26/23 17:48
BKG02@1'	2307505-30	Soil	07/26/23 10:53	07/26/23 17:48
BKG02@2.5'	2307505-31	Soil	07/26/23 10:56	07/26/23 17:48
BKG02@4'	2307505-32	Soil	07/26/23 10:59	07/26/23 17:48
BKG02@5'	2307505-33	Soil	07/26/23 11:02	07/26/23 17:48
BKG03@1'	2307505-34	Soil	07/26/23 11:05	07/26/23 17:48
BKG03@2.5'	2307505-35	Soil	07/26/23 11:08	07/26/23 17:48
BKG03@4'	2307505-36	Soil	07/26/23 11:11	07/26/23 17:48
BKG03@5'	2307505-37	Soil	07/26/23 11:14	07/26/23 17:48
BKG03@6'	2307505-38	Soil	07/26/23 11:17	07/26/23 17:48
BKG04@1'	2307505-39	Soil	07/26/23 10:38	07/26/23 17:48
BKG04@2.5'	2307505-40	Soil	07/26/23 10:41	07/26/23 17:48
BKG04@4'	2307505-41	Soil	07/26/23 10:44	07/26/23 17:48
BKG04@5'	2307505-42	Soil	07/26/23 10:47	07/26/23 17:48
BKG04@6'	2307505-43	Soil	07/26/23 10:50	07/26/23 17:48
BKG05@1'	2307505-44	Soil	07/26/23 10:20	07/26/23 17:48
BKG05@2.5'	2307505-45	Soil	07/26/23 10:23	07/26/23 17:48
BKG05@4'	2307505-46	Soil	07/26/23 10:26	07/26/23 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.



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/04/23 08:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG05@5'	2307505-47	Soil	07/26/23 10:29	07/26/23 17:48
BKG05@6'	2307505-48	Soil	07/26/23 10:32	07/26/23 17:48
BKG05@7'	2307505-49	Soil	07/26/23 10:35	07/26/23 17:48
GW01	2307505-50	Water	07/26/23 12:50	07/26/23 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.

Client: PDC / Tasman				Send Data To: Project Manager: Mark Longhurst				Send Invoice To: Company: PDC Energy			
Address: 6855 W 119th Ave				E-Mail: mark.longhurst@PDCE.com				Project Name/Location:			
City/State/Zip: Broomfield / CO / 80020								AFE#:			
Phone: 303-487-1228				Project Name: White 27-6 wellhead				PO/Billing Codes:			
Sampler Name: Ryan yarinsky				Project Number:				Contact: Mark Longhurst			

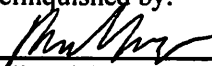


ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN - 8260B	TPH - (C6 - C36)	1,2,4 & 1,3,5-TMB	Boron - HWS	pH, EC, SAR	pH	ON HOLD	
1	SB01 @ 1'	7/26/23	1132	1			X			X								X		
2	SB01 @ 2.5'		1133														X			
3	SB01 @ 4'		1134														X			
4	SB01 @ 5'		1135														X			
5	SB01 @ 6'		1136														X			
6	SB01 @ 7'		1137														X			
7	SB02 @ 1'		1156															X		
8	SB02 @ 2.5'		1157															X		
9	SB02 @ 4'		1158															X		
10	SB02 @ 5'		1159															X		
11	SB02 @ 6'		1200														X			
12	SB02 @ 7'		1201															X		
13	SB03 @ 1'		1215															X		
14	SB03 @ 2.5'		1216															X		
15	SB03 @ 4'		1217															X		

Relinquished by: <i>Am Mm</i>	Date/Time: 7/26/23 1410	Received by: <i>Tasman Lockbox</i>	Date/Time: 7/26/23 1410	TAT Business Days	Field DO	Notes:
Relinquished by: <i>Tasman Lockbox</i>	Date/Time: 7/26/23 1748	Received by: <i>RJL</i>	Date/Time: 7/26/23 1748	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: 8.3	Corrected Temperature: <i>8.3</i>	IR gun #: 1	HNO3 lot #:	Standard	X	Field Turb.

Client: PDC / Tasman				Send Data To:				Send Invoice To:													
Address: 6855 W 119th Ave				Project Manager: Mark Longhurst				Company: PDC Energy													
City/State/Zip: Broomfield / CO / 80020				E-Mail: mark.longhurst@PDCE.com				Project Name/Location:													
Phone: 303-487-1228				Project Name: White 27-6 Wellhead				AFE#:													
Sampler Name: Ryan Yavinsky				Project Number:				PO/Billing Codes:													
				Contact: Mark Longhurst																	
				Preservative				Matrix				Analysis Requested				Special Instructions					
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN - 8260B	TPH - (C6 - C36)	1,2,4 & 1,3,5-TMB	Boron - HWS	pH, EC, SAR	pH	ON HOLD		
1	SB03 @ 5'	7/26/23	1218	1			X			X									X		
2	SB03 @ 6'		1219															X			
3	SB03 @ 7'		1220																X		
4	SB04 @ 1'		1138																X		
5	SB04 @ 2.5'		1141																X		
6	SB04 @ 4'		1144																X		
7	SB04 @ 5'		1147																X		
8	SB04 @ 6'		1150															X			
9	SB05 @ 1'		1120																X		
10	SB05 @ 2.5'		1123																X		
11	SB05 @ 4'		1126																X		
12	SB05 @ 5'		1129																X		
13	SB05 @ 6'		1132															X			
14	SB05 @ 7'		1135																X		
15	BK602 @ 1'		1053															X			
Relinquished by: <i>Phu My</i> Date/Time: 7/26/23 1410				Received by: Tasman Lookbox Date/Time: 7/26/23 1410				TAT Business Days				Field DO				Notes:					
								Same Day				Field EC									
Relinquished by: <i>Tasman Lookbox</i> Date/Time: 7/26/23 1748				Received by: <i>Phu My</i> Date/Time: 7/26/23 1748				1 Day				Field ORP									
								2 Days				Field pH									
Relinquished by:				Received by:				3 Days				Field Temp.									
Temperature Upon Receipt: 8.3				Corrected Temperature: <i>0</i>				IR gun #: 1				HNO3 lot #: <i>X</i>				Field Turb.					

Client: PDC / Tasman		Send Data To: Project Manager: Mark Longhurst		Send Invoice To: Company: PDC Energy	
Address: 6855 W 119th Ave		E-Mail: mark.longhurst@PDCE.com		Project Name/Location:	
City/State/Zip: Broomfield / CO / 80020				AFE#:	
Phone: 303-487-1228		Project Name: White 27-6 wellhead		PO/Billing Codes:	
Sampler Name: Ryan Jarinsky		Project Number:		Contact: Mark Longhurst	

				Preservative				Matrix				Analysis Requested						Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN - 8260B	TPH - (C6 - C36)	1,2,4 & 1,3,5-TMB	Boron - HWS	pH, EC, SAR	pH	
1	BK602 @ 2.5'	7/26/23	1056	1			X			X								X	
2	BK602 @ 4'		1059																
3	BK602 @ 5'		1102																
4	BK603 @ 1'		1105																
5	BK603 @ 2.5'		1108																
6	BK603 @ 4'		1111																
7	BK603 @ 5'		1114																
8	BK603 @ 6'		1117																
9	BK604 @ 1'		1038																
10	BK604 @ 2.5'		1041																
11	BK604 @ 4'		1044																
12	BK604 @ 5'		1047																
13	BK604 @ 6'		1050																
14	BK605 @ 1'		1020																
15	BK605 @ 2.5'		1023																

Relinquished by: 	Date/Time: 7/26/23 1410	Received by: Tasman Lockbox	Date/Time: 7/26/23 1410	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: Tasman Lockbox	Date/Time: 7/26/23 1748	Received by: 	Date/Time: 7/26/23 1748	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: 8.3	Corrected Temperature: 	IR gun #: 1	HNO3 lot #:			

Client: PDC / Tasman				Send Data To: Project Manager: Mark Longhurst				Send Invoice To: Company: PDC Energy			
Address: 6855 W 119th Ave				E-Mail: mark.longhurst@PDCE.com				Project Name/Location:			
City/State/Zip: Broomfield / CO / 80020								AFE#:			
Phone: 303-487-1228				Project Name: White 27-6 Wellhead				PO/Billing Codes:			
Sampler Name: Ryan Yavinsky				Project Number:				Contact: Mark Longhurst			

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN - 8260B	TPH - (C6 - C36)	1,2,4 & 1,3,5-TMB	Boron - HWS	pH, EC, SAR	pH	
1	BK605@4'	7/26/23	1026	1			X			X								X	
2	BK605@5'		1029	1			X			X							X		
3	BK605@6'		1032	1			X			X							X		
4	BK605@7'		1035	1			X			X							X		
5	GW01		1250	1	X				X				X		X				
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by:	Date/Time: 7/26/23 1410	Received by: Tasman Lockbox	Date/Time: 7/26/23 1410	TAT Business Days	Field DO	Notes:
Relinquished by: Tasman Lockbox	Date/Time: 7/26/23 1742	Received by:	Date/Time: 7/26/23 1748	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: 8.3	Corrected Temperature:	IR gun #: 1	HNO3 lot #:	Standard	X	Field Turb.

S2

4/4
Sample Receipt Checklist

S2 Work Order# 2307505

Client: Poc [unclear] Client Project ID: White 27-6 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) 83Thermometer # 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 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"/>	
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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	limited sample #50 - Water
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 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.				

AS
Custodian Printed Name

7/26/23
Date/Time



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/04/23 08:19

SB01@1'
2307505-01 (Soil)

Summit Scientific

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

Date Sampled: **07/26/23 11:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.83			pH Units	1	BGG1019	07/31/23	07/31/23	EPA 9045D	

Summit Scientific

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



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/04/23 08:19

SB01@2.5'
2307505-02 (Soil)

Summit Scientific

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

Date Sampled: **07/26/23 11:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.51			pH Units	1	BGG1019	07/31/23	07/31/23	EPA 9045D	

Summit Scientific

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



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:

08/04/23 08:19

SB01@4'

2307505-03 (Soil)

Summit Scientific

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

Date Sampled: **07/26/23 11:34**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.38			pH Units	1	BGG1019	07/31/23	07/31/23	EPA 9045D	

Summit Scientific

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



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:

08/04/23 08:19

SB01@5'

2307505-04 (Soil)

Summit Scientific

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

Date Sampled: **07/26/23 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.83			pH Units	1	BGG1019	07/31/23	07/31/23	EPA 9045D	

Summit Scientific

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



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:

08/04/23 08:19

SB01@6'

2307505-05 (Soil)

Summit Scientific

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

Date Sampled: **07/26/23 11:36**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.11			pH Units	1	BGG1019	07/31/23	07/31/23	EPA 9045D	

Summit Scientific

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



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:

08/04/23 08:19

SB01@7'

2307505-06 (Soil)

Summit Scientific

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

Date Sampled: **07/26/23 11:37**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.98			pH Units	1	BGG1019	07/31/23	07/31/23	EPA 9045D	

Summit Scientific

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



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:

08/04/23 08:19

SB02@6'
2307505-11 (Soil)

Summit Scientific

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

Date Sampled: **07/26/23 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.87			pH Units	1	BGG1019	07/31/23	07/31/23	EPA 9045D	

Summit Scientific

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



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:

08/04/23 08:19

SB03@6'

2307505-17 (Soil)

Summit Scientific

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

Date Sampled: **07/26/23 12:19**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.93			pH Units	1	BGG1019	07/31/23	07/31/23	EPA 9045D	

Summit Scientific

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



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
08/04/23 08:19

SB04@6'
2307505-23 (Soil)

Summit Scientific

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

Date Sampled: **07/26/23 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.06			pH Units	1	BGG1019	07/31/23	07/31/23	EPA 9045D	

Summit Scientific

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



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
08/04/23 08:19

SB05@6'
2307505-28 (Soil)

Summit Scientific

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

Date Sampled: **07/26/23 11:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.57			pH Units	1	BGG1019	07/31/23	07/31/23	EPA 9045D	

Summit Scientific

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



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:

08/04/23 08:19

BKG02@1'
2307505-30 (Soil)

Summit Scientific

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

Date Sampled: **07/26/23 10:53**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	6.39			pH Units	1	BGG0926	07/27/23	07/27/23	EPA 9045D	

Summit Scientific

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



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/04/23 08:19

BKG02@2.5'
2307505-31 (Soil)

Summit Scientific

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

Date Sampled: **07/26/23 10:56**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.15			pH Units	1	BGG0926	07/27/23	07/27/23	EPA 9045D	

Summit Scientific

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



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/04/23 08:19

BKG02@4'
2307505-32 (Soil)

Summit Scientific

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

Date Sampled: **07/26/23 10:59**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.98			pH Units	1	BGG0926	07/27/23	07/27/23	EPA 9045D	

Summit Scientific

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



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:

08/04/23 08:19

BKG02@5'
2307505-33 (Soil)

Summit Scientific

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

Date Sampled: **07/26/23 11:02**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.94			pH Units	1	BGG0926	07/27/23	07/27/23	EPA 9045D	

Summit Scientific

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



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:

08/04/23 08:19

BKG03@1'
2307505-34 (Soil)

Summit Scientific

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

Date Sampled: **07/26/23 11:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.42			pH Units	1	BGG0926	07/27/23	07/27/23	EPA 9045D	

Summit Scientific

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



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:

08/04/23 08:19

BKG03@2.5'
2307505-35 (Soil)

Summit Scientific

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

Date Sampled: **07/26/23 11:08**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.43			pH Units	1	BGG0926	07/27/23	07/27/23	EPA 9045D	

Summit Scientific

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



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:

08/04/23 08:19

BKG03@4'
2307505-36 (Soil)

Summit Scientific

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

Date Sampled: **07/26/23 11:11**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.00			pH Units	1	BGG0926	07/27/23	07/27/23	EPA 9045D	

Summit Scientific

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



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:

08/04/23 08:19

BKG03@5'
2307505-37 (Soil)

Summit Scientific

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

Date Sampled: **07/26/23 11:14**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.76			pH Units	1	BGG0926	07/27/23	07/27/23	EPA 9045D	

Summit Scientific

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



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:

08/04/23 08:19

BKG03@6'
2307505-38 (Soil)

Summit Scientific

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

Date Sampled: **07/26/23 11:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.70			pH Units	1	BGG0926	07/27/23	07/27/23	EPA 9045D	

Summit Scientific

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



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/04/23 08:19

BKG04@1'
2307505-39 (Soil)

Summit Scientific

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

Date Sampled: **07/26/23 10:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.10			pH Units	1	BGG0926	07/27/23	07/27/23	EPA 9045D	

Summit Scientific

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

Project: PDC - White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/04/23 08:19

BKG04@2.5'
2307505-40 (Soil)

Summit Scientific

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

Date Sampled: **07/26/23 10:41**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.74			pH Units	1	BGG0926	07/27/23	07/27/23	EPA 9045D	

Summit Scientific

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



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:

08/04/23 08:19

BKG04@4'
2307505-41 (Soil)

Summit Scientific

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

Date Sampled: **07/26/23 10:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.78			pH Units	1	BGG0926	07/27/23	07/27/23	EPA 9045D	

Summit Scientific

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



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
08/04/23 08:19

BKG04@5'
2307505-42 (Soil)

Summit Scientific

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

Date Sampled: **07/26/23 10:47**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.74			pH Units	1	BGG0926	07/27/23	07/27/23	EPA 9045D	

Summit Scientific

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



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/04/23 08:19

BKG04@6'
2307505-43 (Soil)

Summit Scientific

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

Date Sampled: **07/26/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.84			pH Units	1	BGG0926	07/27/23	07/27/23	EPA 9045D	

Summit Scientific

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



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/04/23 08:19

BKG05@1'
2307505-44 (Soil)

Summit Scientific

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

Date Sampled: **07/26/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.05			pH Units	1	BGG0926	07/27/23	07/27/23	EPA 9045D	

Summit Scientific

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



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:

08/04/23 08:19

BKG05@2.5'
2307505-45 (Soil)

Summit Scientific

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

Date Sampled: **07/26/23 10:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.68			pH Units	1	BGG0926	07/27/23	07/27/23	EPA 9045D	

Summit Scientific

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



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:

08/04/23 08:19

BKG05@4'
2307505-46 (Soil)

Summit Scientific

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

Date Sampled: **07/26/23 10:26**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.47			pH Units	1	BGG0926	07/27/23	07/27/23	EPA 9045D	

Summit Scientific

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



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/04/23 08:19

BKG05@5'
2307505-47 (Soil)

Summit Scientific

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

Date Sampled: **07/26/23 10:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.50			pH Units	1	BGG0926	07/27/23	07/27/23	EPA 9045D	

Summit Scientific

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



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:

08/04/23 08:19

BKG05@6'
2307505-48 (Soil)

Summit Scientific

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

Date Sampled: **07/26/23 10:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.97			pH Units	1	BGG0926	07/27/23	07/27/23	EPA 9045D	

Summit Scientific

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



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:

08/04/23 08:19

BKG05@7'
2307505-49 (Soil)

Summit Scientific

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

Date Sampled: **07/26/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.07			pH Units	1	BGG0926	07/27/23	07/27/23	EPA 9045D	

Summit Scientific

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



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

Project: PDC - White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/04/23 08:19

GW01
2307505-50 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/26/23 12:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGG0929	07/27/23	07/29/23	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: **07/26/23 12:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.5	101 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	14.3	107 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.9	96.7 %		21-167		"	"	"	"	

Summit Scientific

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

Project: PDC - White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/04/23 08:19

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 BGG0929 - EPA 5030 Water MS

Blank (BGG0929-BLK1)

Prepared: 07/27/23 Analyzed: 07/28/23

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	"							
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.3		103	23-173			
Surrogate: Toluene-d8	14.1		"	13.3		105	20-170			
Surrogate: 4-Bromofluorobenzene	12.7		"	13.3		95.3	21-167			

LCS (BGG0929-BS1)

Prepared: 07/27/23 Analyzed: 07/29/23

Benzene	34.3	1.0	ug/l	33.3		103	51-132			
Toluene	32.9	1.0	"	33.3		98.8	51-138			
Ethylbenzene	34.5	1.0	"	33.3		104	58-146			
m,p-Xylene	70.4	2.0	"	66.7		106	57-144			
o-Xylene	39.2	1.0	"	33.3		117	53-146			
Naphthalene	32.4	1.0	"	33.3		97.1	70-130			
1,2,4-Trimethylbenzene	33.6	1.0	"	33.3		101	70-130			
1,3,5-Trimethylbenzene	36.3	1.0	"	33.3		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	12.1		"	13.3		90.9	23-173			
Surrogate: Toluene-d8	11.4		"	13.3		85.3	20-170			
Surrogate: 4-Bromofluorobenzene	14.5		"	13.3		109	21-167			

Matrix Spike (BGG0929-MS1)

Source: 2307459-01

Prepared: 07/27/23 Analyzed: 07/29/23

Benzene	36.8	1.0	ug/l	33.3	ND	111	34-141			
Toluene	35.2	1.0	"	33.3	ND	106	27-151			
Ethylbenzene	35.1	1.0	"	33.3	ND	105	29-160			
m,p-Xylene	74.4	2.0	"	66.7	ND	112	20-166			
o-Xylene	39.4	1.0	"	33.3	ND	118	33-159			
Naphthalene	42.2	1.0	"	33.3	ND	127	70-130			
1,2,4-Trimethylbenzene	34.2	1.0	"	33.3	ND	103	70-130			
1,3,5-Trimethylbenzene	36.6	1.0	"	33.3	ND	110	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.5		"	13.3		102	23-173			
Surrogate: Toluene-d8	11.6		"	13.3		86.8	20-170			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		95.8	21-167			

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Broomfield CO, 80020

Project: PDC - White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/04/23 08:19

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 BGG0929 - EPA 5030 Water MS

Matrix Spike Dup (BGG0929-MSD1)	Source: 2307459-01			Prepared: 07/27/23 Analyzed: 07/29/23						
Benzene	38.5	1.0	ug/l	33.3	ND	115	34-141	4.35	30	
Toluene	34.4	1.0	"	33.3	ND	103	27-151	2.21	30	
Ethylbenzene	35.2	1.0	"	33.3	ND	106	29-160	0.455	30	
m,p-Xylene	75.0	2.0	"	66.7	ND	112	20-166	0.803	30	
o-Xylene	40.0	1.0	"	33.3	ND	120	33-159	1.61	30	
Naphthalene	35.5	1.0	"	33.3	ND	106	70-130	17.4	30	
1,2,4-Trimethylbenzene	35.0	1.0	"	33.3	ND	105	70-130	2.37	30	
1,3,5-Trimethylbenzene	36.7	1.0	"	33.3	ND	110	70-130	0.518	30	
Surrogate: 1,2-Dichloroethane-d4	13.5		"	13.3		101	23-173			
Surrogate: Toluene-d8	11.5		"	13.3		86.6	20-170			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		95.9	21-167			

Summit Scientific

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Tasman Geosciences
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Broomfield CO, 80020

Project: PDC - White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/04/23 08:19

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 BGG0926 - General Preparation

LCS (BGG0926-BS1)

Prepared & Analyzed: 07/27/23

pH	9.09		pH Units	9.18		99.0	95-105		
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Duplicate (BGG0926-DUP1)

Source: 2307505-30

Prepared & Analyzed: 07/27/23

pH	6.58		pH Units		6.39			2.93	20
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Batch BGG1019 - General Preparation

LCS (BGG1019-BS1)

Prepared & Analyzed: 07/31/23

pH	8.93		pH Units	9.18		97.3	95-105		
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Duplicate (BGG1019-DUP1)

Source: 2306662-10

Prepared & Analyzed: 07/31/23

pH	6.21		pH Units		6.20			0.161	20
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Summit Scientific

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

Project: PDC - White 27-6 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/04/23 08:19

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