

**TABLE 1
FORMER GERRY 3 WELLHEAD
SOIL ANALYTICAL RESULTS SUMMARY TABLE
CONTAMINANTS OF CONCERN**

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)	Arsenic ⁽⁵⁾ (mg/kg)	Barium ⁽⁵⁾ (mg/kg)	Lead ⁽⁵⁾ (mg/kg)	Selenium ⁽⁵⁾ (mg/kg)
Residential SSL ^(1,2)			1.2	490	5.8	58	30	27	2	500	0.68	15,000	400	390
Protection of Groundwater SSL ^(1,2,3)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	0.29	82	14	0.26
WH01 @ 6'	1/20/2022	6 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.032	<50	6.53	132	33.0	1.13
FLR01 @ 4'	1/20/2022	4 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	NA	NA	NA	NA
FL01-01 @ 4'	1/20/2022	4 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	NA	NA	NA	NA
FL01-02 @ 4'	1/20/2022	4 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	NA	NA	NA	NA
SS01 @ 4'	12/15/2022	4 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	0.037	0.12	<0.0038	784	4.70	88.6	8.37	0.613
SS02 @ 9'	12/15/2022	9 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	10.8	159	8.28	0.615
SS04 @ 6'	12/15/2022	6 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	4.62	98.1	15.3	0.631
SS06 @ 6'	12/15/2022	6 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	4.92	282	9.53	0.578
SS08 @ 6'	12/15/2022	6 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	4.57	161	9.26	0.209
SS10 @ 6'	12/15/2022	6 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	4.88	176	9.85	0.250

Notes:

- Compounds referenced from the COGCC 2 CCR 404-1, Table 915-1, effective January 15, 2021.
- Soil Screening Levels (SSL) referenced from EPA Regional Screening Levels (EPA RSLs) for Chemical Contaminants at Superfund Sites, effective November 2020.
- SSLs are applicable if a pathway for communication with groundwater is present.
- Value calculated by adding TVPH-GRO, TEPH-DRO, and TEPH-ORO concentrations.
- For metals evaluation explanation please refer to notes 5-7 on Table 4 - Metals.

COGCC = Colorado Oil and Gas Conservation Commission

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

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

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

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

mg/kg = Milligrams per kilogram

TMB = Trimethylbenzene

 = Source material characterization sample, transported offsite to disposal facility.

 = Sample material excavated and transported off-site for disposal

ft. = Feet

bgs = Below ground surface

NA = Constituent not analyzed

BOLD = Analytical result is in exceedance of applicable standard.

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

TABLE 2
FORMER GERRY 3 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'	1/20/2022	6 ft. bgs	7.71	0.559	0.649	0.0208
FLR01 @ 4'	1/20/2022	4 ft. bgs	7.70	0.629	0.405	0.0227
SS01 @ 4'	12/15/2022	4 ft. bgs	7.85	0.428	0.434	0.420
SS09 @ 2.5'	12/15/2022	2.5 ft. bgs	8.00	0.303	0.450	1.13

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

= Source material characterization sample, transported offsite to disposal facility.

= Sample material excavated and transported off-site for disposal

**TABLE 3
FORMER GERRY 3 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'	1/20/2022	6 ft. bgs	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
FLR01 @ 4'	1/20/2022	4 ft. bgs	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS01 @ 4'	12/15/2022	4 ft. bgs	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0377	<0.00500	<0.00500	0.0290	<0.00500	0.00898	0.0993	0.0851
SS02 @ 9'	12/15/2022	9 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
SS04 @ 6'	12/15/2022	6 ft. bgs	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS06 @ 6'	12/15/2022	6 ft. bgs	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS08 @ 6'	12/15/2022	6 ft. bgs	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS10 @ 6'	12/15/2022	6 ft. bgs	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Notes:

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

COGCC = Colorado Oil and Gas Conservation Commission

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

PAHs = Polycyclic aromatic hydrocarbons

Benzo(a) = Benzoanthracene

Benzo(b) = Benzopyrene

Benzo(k) = 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

 = Source material characterization sample, transported offsite to disposal facility.

 = Sample material excavated and transported off-site for disposal

BOLD = Analytical result is in exceedance of applicable standard.

**TABLE 4
FORMER GERRY 3 WELLHEAD
SOIL ANALYTICAL RESULTS SUMMARY TABLE
METALS**

Sample ID	Date Sampled	Depth	Arsenic ⁽⁵⁾ (mg/kg)	Barium ⁽⁶⁾ (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium ⁽⁷⁾ (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
Residential SSL ^(1,2)			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
Protection of Groundwater SSL ^(1,2,3)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
WH01 @ 6'	1/20/2022	6 ft. bgs	6.53	132	<0.249	<0.30 ⁽⁴⁾	9.44	33.0	11.6	1.13	0.0441	41.6
SS01 @ 4'	12/15/2022	4 ft. bgs	4.70	88.6	0.194	<0.30 ⁽⁴⁾	10.2	8.37	12.4	0.613	0.0602	40.8
SS02 @ 9'	12/15/2022	9 ft. bgs	10.8	159	NA	NA	NA	8.28	NA	0.615	NA	NA
SS04 @ 6'	12/15/2022	6 ft. bgs	4.62	98.1	NA	NA	NA	15.3	NA	0.631	NA	NA
SS06 @ 6'	12/15/2022	6 ft. bgs	4.92	282	NA	NA	NA	9.53	NA	0.578	NA	NA
SS08 @ 6'	12/15/2022	6 ft. bgs	4.57	161	NA	NA	NA	9.26	NA	0.209	NA	NA
SS10 @ 6'	12/15/2022	6 ft. bgs	4.88	176	NA	NA	NA	9.85	NA	0.250	NA	NA
BKG01 @ 4'	1/20/2022	4 ft. bgs	3.43	70.5	<0.221	<0.30 ⁽⁴⁾	6.19	6.06	8.73	0.558	0.0370	30.6
BKG01 @ 6'	1/20/2022	6 ft. bgs	3.09	68.6	<0.221	<0.30 ⁽⁴⁾	5.35	5.36	7.14	0.478	0.0336	26.3
BKG02 @ 2.5'	12/15/2022	2.5 ft. bgs	2.90	60.3	0.148	<0.30 ⁽⁴⁾	5.65	5.47	7.10	0.208	0.0233	21.9
BKG02 @ 6'	12/15/2022	6 ft. bgs	3.70	73.0	0.205	<0.30 ⁽⁴⁾	6.34	7.14	8.17	0.203	0.0285	27.4
BKG02 @ 9'	12/15/2022	9 ft. bgs	4.53	82.1	0.266	<0.30 ⁽⁴⁾	8.73	8.75	9.86	<0.308 ⁽⁴⁾	0.0389	30.4
BKG03 @ 2.5'	12/15/2022	2.5 ft. bgs	2.88	56.9	0.155	<0.30 ⁽⁴⁾	4.77	5.35	6.85	0.194	0.0198	21.1
BKG03 @ 6'	12/15/2022	6 ft. bgs	3.98	68.6	0.227	<0.30 ⁽⁴⁾	7.81	7.61	9.36	<0.302 ⁽⁴⁾	0.0353	28.7
BKG03 @ 9'	12/15/2022	9 ft. bgs	4.39	88.8	0.265	<0.30 ⁽⁴⁾	9.22	9.52	10.9	0.237	0.0480	34.5
BKG04 @ 2.5'	12/15/2022	2.5 ft. bgs	3.63	83.3	0.201	<0.30 ⁽⁴⁾	6.02	6.19	7.78	0.226	0.0265	24.0
BKG04 @ 6'	12/15/2022	6 ft. bgs	6.38	126	0.291	<0.30 ⁽⁴⁾	10.9	9.76	11.4	0.231	0.0424	32.4
BKG04 @ 9'	12/15/2022	9 ft. bgs	5.44	102	0.271	<0.30 ⁽⁴⁾	10.0	9.17	11.3	0.231	0.0335	33.1
BKG05 @ 2.5'	12/15/2022	2.5 ft. bgs	3.68	70.8	0.199	<0.30 ⁽⁴⁾	7.13	7.21	8.25	0.292	0.0338	25.5
BKG05 @ 6'	12/15/2022	6 ft. bgs	3.84	71.7	0.194	<0.30 ⁽⁴⁾	6.99	7.16	8.65	0.273	0.0339	25.8
BKG05 @ 9'	12/15/2022	9 ft. bgs	4.40	93.2	0.233	<0.30 ⁽⁴⁾	8.25	9.97	9.44	0.351	0.0382	29.4

Notes:

- Compounds referenced from the COGCC 2 CCR 404-1, Table 915-1, effective January 15, 2021.
- Soil Screening Levels (SSL) referenced from EPA Regional Screening Levels (EPA RSLs) for Chemical Contaminants at Superfund Sites, effective November 2020.
- SSLs are applicable if a pathway for communication with groundwater is present.
- Compound falls within COGCC Table 915-1 Footnote 9.
- Concentration used to evaluate arsenic exceedances is 1.25 times the average arsenic background results (4.02 mg/kg x 1.25 = 5.02 mg/kg)
- Concentration used to evaluate barium exceedances is 1.25 times the average barium background results (79.7 mg/kg x 1.25 = 99.6 mg/kg)
- Concentration used to evaluate selenium exceedances is 1.25 times the average selenium background results (0.290 mg/kg x 1.25 = 0.363 mg/kg)

COGCC = Colorado Oil and Gas Conservation Commission

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

mg/kg = Milligrams per kilogram

 = Source material characterization sample, transported offsite to disposal facility.

ft. = Feet

bgs = Below ground surface

BOLD = Analytical result is in exceedance of applicable standard.

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

NA = Constituent not analyzed

**TABLE 5
FORMER GERRY 3 WELLHEAD
FIELD DATA SUMMARY TABLE**

Sample ID	Date Sampled	Depth	GPS Data ⁽¹⁾		PDOP Value	VOC Concentration ⁽²⁾ (ppm)
			Latitude	Longitude		
WH01 @ 6'	1/20/2022	6 ft. bgs	40.471962	-104.722328	1.2	1.0
FLR01 @ 4'	1/20/2022	4 ft. bgs	40.471961	-104.722322	1.2	0.0
FL01-01 @ 4'	1/20/2022	4 ft. bgs	40.471888	-104.721260	1.0	0.0
FL01-02 @ 4'	1/20/2022	4 ft. bgs	40.471893	-104.721217	1.0	0.0
WHS01-N @ 0-6"	1/20/2022	0-6 in. bgs	40.472089	-104.722373	1.1	0.0
WHS01-S @ 0-6"	1/20/2022	0-6 in. bgs	40.471856	-104.722333	1.2	0.0
WHS01-E @ 0-6"	1/20/2022	0-6 in. bgs	40.471981	-104.722201	1.2	0.0
WHS01-W @ 0-6"	1/20/2022	0-6 in. bgs	40.472018	-104.722471	1.1	0.0
SS01 @ 4'	12/15/2022	4 ft. bgs	40.471966	-104.722303	1.4	177.0
SS02 @ 9'	12/15/2022	9 ft. bgs	40.471976	-104.722315	NC	0.4
SS04 @ 6'	12/15/2022	6 ft. bgs	40.471991	-104.722311	1.4	0.2
SS06 @ 6'	12/15/2022	6 ft. bgs	40.471964	-104.722291	1.4	0.1
SS08 @ 6'	12/15/2022	6 ft. bgs	40.471948	-104.722314	1.4	0.1
SS09 @ 2.5'	12/15/2022	2.5 ft. bgs	40.471966	-104.722335	1.4	0.1
SS10 @ 6'	12/15/2022	6 ft. bgs	40.471966	-104.722335	1.4	0.1
BKG01 @ 4'	1/20/2022	4 ft. bgs	40.472024	-104.722478	1.6	0.0
BKG01 @ 6'	1/20/2022	6 ft. bgs	40.472024	-104.722478	1.6	0.0
BKG02 @ 2.5'	12/15/2022	2.5 ft. bgs	40.472149	-104.722483	1.3	0.0
BKG02 @ 6'	12/15/2022	6 ft. bgs	40.472149	-104.722483	1.3	0.0
BKG02 @ 9'	12/15/2022	9 ft. bgs	40.472149	-104.722483	1.3	0.1
BKG03 @ 2.5'	12/15/2022	2.5 ft. bgs	40.471810	-104.722534	1.1	0.0
BKG03 @ 6'	12/15/2022	6 ft. bgs	40.471810	-104.722534	1.1	0.1
BKG03 @ 9'	12/15/2022	9 ft. bgs	40.471810	-104.722534	1.1	0.2
BKG04 @ 2.5'	12/15/2022	2.5 ft. bgs	40.471785	-104.722173	1.2	0.0
BKG04 @ 6'	12/15/2022	6 ft. bgs	40.471785	-104.722173	1.2	0.0
BKG04 @ 9'	12/15/2022	9 ft. bgs	40.471785	-104.722173	1.2	0.0
BKG05 @ 2.5'	12/15/2022	2.5 ft. bgs	40.472088	-104.722065	1.2	0.1
BKG05 @ 6'	12/15/2022	6 ft. bgs	40.472088	-104.722065	1.2	0.1
BKG05 @ 9'	12/15/2022	9 ft. bgs	40.472088	-104.722065	1.2	0.0

Notes:

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

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

PDOP = Position Dilution of Precision

ppm = Parts per million

ft. = Feet

in. = Inches

bgs = Below ground surface

 = Source material characterization sample, transported offsite to disposal facility.

 = Sample material excavated and transported off-site for disposal

ATTACHMENT A

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 04, 2022

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

Denver, CO 80203

RE: Gerry 3 Wellhead

Work Order #2201215

Enclosed are the results of analyses for samples received by Summit Scientific on 01/20/22 17:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Paul Shrewsbury', written in a cursive style.

Paul Shrewsbury For Muri Premer
Project Manager



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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
04/04/22 10:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6'	2201215-01	Soil	01/20/22 11:00	01/20/22 17:45
FLR01@4'	2201215-02	Soil	01/20/22 11:15	01/20/22 17:45
BKG01@4'	2201215-03	Soil	01/20/22 12:00	01/20/22 17:45
BKG01@6'	2201215-04	Soil	01/20/22 12:05	01/20/22 17:45
FL01-01@4'	2201215-05	Soil	01/20/22 15:30	01/20/22 17:45
FL01-02@4'	2201215-06	Soil	01/20/22 15:35	01/20/22 17:45

Summit Scientific

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

Summit Scientific

2201215

S₂

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

Client: PDC / Tasman Project Manager: Mark Longhurst
Address: 6855 W 119th Ave E-Mail: mark.longhurst@PDCE.com
City/State/Zip: Broomfield/ CO/ 80020
Phone: 303-487-1228 Project Name: Gerny 3 wellhead
Sampler Name: Matanga W. Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested							Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	GBTEXN - 8260B	TPH - (C6 - C36)	pH, EC, SAR	Boron - HWS	VOC - 915	PAH - 915	
1	WH01 @ 10	1/20/22	1100	3			X			X			X	X	X	X		X	pH, EC, SAR by saturated paste on hold TIMB
2	FLR01 @ 4		1115	3									X	X	X	X		X	
3	BK601 @ 4		1200	1														X	
4	BK601 @ 6		1205	1														X	
5	FI01-01 @ 4		1536	3									X	X					
6	FI01-02 @ 4		1535	3									X	X				X	
7																			
8																			
9																			
10																			

Relinquished by: Matanga W.	Date/Time:	Received by: Tasman's Lock Box	Date/Time: 1/20/22 17:45	Turn Around Time (Check) Same Day _____ 72 hours 24 hours _____ Standard <input checked="" type="checkbox"/> 48 hours _____ Sample Integrity: Temperature Upon Receipt: 9/0 Samples Intact: Yes No	Notes:
Relinquished by: Tasman's Lock Box	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

S₂

Sample Receipt Checklist

S2 Work Order# 2201215

Client: PDC/Tasman Client Project ID: Gerry 3 Wellhead

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

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

Temp (°C)	4.0
-----------	-----

Thermometer ID: G86A9201901378

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

CS
Custodian Printed Name or Initials

1/20/22
Date/Time



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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
04/04/22 10:58

WH01@6'
2201215-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/20/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFA0363	01/24/22	01/24/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	0.032	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/20/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		130 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/20/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0368	01/24/22	01/25/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/20/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		112 %	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: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
04/04/22 10:58

WH01@6'
2201215-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/20/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFA0399	01/25/22	01/26/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/20/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		50.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		48.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/20/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0208	0.0100	mg/L	1	BFA0364	01/24/22	02/08/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/20/22 11:00**

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: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
04/04/22 10:58

WH01@6'
2201215-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	6.53	0.249	mg/kg dry	1	BFC0082	03/04/22	03/09/22	EPA 6020B	
Barium	132	0.499	"	"	"	"	"	"	
Cadmium	ND	0.249	"	"	"	"	"	"	
Copper	9.44	0.499	"	"	"	"	"	"	
Lead	33.0	0.249	"	"	"	"	"	"	
Nickel	11.6	0.499	"	"	"	"	"	"	
Selenium	1.13	0.324	"	"	"	"	"	"	
Silver	0.0441	0.0249	"	"	"	"	"	"	
Zinc	41.6	0.499	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 01/20/22 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFB0070	02/08/22	02/08/22	EPA 7196A	

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

Date Sampled: 01/20/22 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	57.1	0.0623	mg/L dry	1	BFA0357	01/21/22	01/28/22	EPA 6020B	
Magnesium	17.8	0.0623	"	"	"	"	"	"	
Sodium	21.9	0.0623	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 01/20/22 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.649	0.00100	units	1	BFA0457	01/28/22	01/28/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 01/20/22 11:00

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

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 04/04/22 10:58

WH01@6'
2201215-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.2	%	1	BFA0348	01/21/22	01/24/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/20/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.559	0.0100	mmhos/cm	1	BFA0377	01/24/22	01/24/22	EPA 120.1	

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

Date Sampled: **01/20/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.71		pH Units	1	BFA0376	01/24/22	01/24/22	EPA 9045D	

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
04/04/22 10:58

FLR01@4'
2201215-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/20/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFA0363	01/24/22	01/24/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/20/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		135 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		106 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/20/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0368	01/24/22	01/25/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/20/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		91.2 %	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: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
04/04/22 10:58

FLR01@4'
2201215-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/20/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFA0399	01/25/22	01/26/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/20/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		59.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		47.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/20/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0227	0.0100	mg/L	1	BFA0364	01/24/22	02/08/22	EPA 6020B	

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

Date Sampled: **01/20/22 11:15**

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

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

Project: Gerry 3 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/04/22 10:58

FLR01@4'
2201215-02 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	66.7	0.0594	mg/L dry	1	BFA0357	01/21/22	01/28/22	EPA 6020B	
Magnesium	21.7	0.0594	"	"	"	"	"	"	
Sodium	14.9	0.0594	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/20/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.405	0.00100	units	1	BFA0457	01/28/22	01/28/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/20/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.2		%	1	BFA0348	01/21/22	01/24/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/20/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.629	0.0100	mmhos/cm	1	BFA0377	01/24/22	01/24/22	EPA 120.1	

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

Date Sampled: **01/20/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.70		pH Units	1	BFA0376	01/24/22	01/24/22	EPA 9045D	

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
04/04/22 10:58

BKG01@4'
2201215-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **01/20/22 12:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.43	0.221	mg/kg dry	1	BFC0686	03/29/22	04/03/22	EPA 6020B	
Barium	70.5	0.441	"	"	"	"	"	"	
Cadmium	ND	0.221	"	"	"	"	"	"	
Copper	6.19	0.441	"	"	"	"	"	"	
Lead	6.06	0.221	"	"	"	"	"	"	
Nickel	8.73	0.441	"	"	"	"	"	"	
Selenium	0.558	0.287	"	"	"	"	"	"	
Silver	0.0370	0.0221	"	"	"	"	"	"	
Zinc	30.6	0.441	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/20/22 12:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFB0070	02/08/22	02/08/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/20/22 12:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	90.6		%	1	BFB0057	02/07/22	02/07/22	Calculation	

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
04/04/22 10:58

BKG01@6'
2201215-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **01/20/22 12:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.09	0.221	mg/kg dry	1	BFC0686	03/29/22	04/03/22	EPA 6020B	
Barium	68.6	0.442	"	"	"	"	"	"	"
Cadmium	ND	0.221	"	"	"	"	"	"	"
Copper	5.35	0.442	"	"	"	"	"	"	"
Lead	5.36	0.221	"	"	"	"	"	"	"
Nickel	7.14	0.442	"	"	"	"	"	"	"
Selenium	0.478	0.287	"	"	"	"	"	"	"
Silver	0.0336	0.0221	"	"	"	"	"	"	"
Zinc	26.3	0.442	"	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/20/22 12:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFB0070	02/08/22	02/08/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/20/22 12:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	90.5		%	1	BFB0057	02/07/22	02/07/22	Calculation	

Summit Scientific

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

Project: Gerry 3 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/04/22 10:58

FL01-01@4'
2201215-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/20/22 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFA0363	01/24/22	01/24/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/20/22 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		124 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		106 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/20/22 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0368	01/24/22	01/25/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/20/22 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		82.3 %	30-150		"	"	"	"	

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
04/04/22 10:58

FL01-02@4'
2201215-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/20/22 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFA0363	01/24/22	01/24/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/20/22 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		136 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		108 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/20/22 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0368	01/24/22	01/25/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/20/22 15:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		87.4 %	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: Gerry 3 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/04/22 10:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFA0363 - EPA 5030 Soil MS

Blank (BFA0363-BLK1)

Prepared & Analyzed: 01/24/22

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
Naphthalene	ND	0.0038	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0510		"	0.0400		127	23-173				
<i>Surrogate: Toluene-d8</i>	0.0415		"	0.0400		104	20-170				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0412		"	0.0400		103	21-167				

LCS (BFA0363-BS1)

Prepared & Analyzed: 01/24/22

Benzene	0.0756	0.0020	mg/kg	0.100		75.6	70-130				
Toluene	0.0824	0.0050	"	0.100		82.4	70-130				
Ethylbenzene	0.0800	0.0050	"	0.100		80.0	70-130				
m,p-Xylene	0.157	0.010	"	0.200		78.5	70-130				
o-Xylene	0.0790	0.0050	"	0.100		79.0	70-130				
1,2,4-Trimethylbenzene	0.0838	0.0050	"	0.100		83.8	70-130				
1,3,5-Trimethylbenzene	0.0849	0.0050	"	0.100		84.9	70-130				
Naphthalene	0.117	0.0038	"	0.100		117	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0475		"	0.0400		119	23-173				
<i>Surrogate: Toluene-d8</i>	0.0424		"	0.0400		106	20-170				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0422		"	0.0400		105	21-167				

Matrix Spike (BFA0363-MS1)

Source: 2201215-01

Prepared & Analyzed: 01/24/22

Benzene	0.0784	0.0020	mg/kg	0.100	ND	78.4	70-130				
Toluene	0.0845	0.0050	"	0.100	ND	84.5	70-130				
Ethylbenzene	0.0816	0.0050	"	0.100	ND	81.6	70-130				
m,p-Xylene	0.161	0.010	"	0.200	ND	80.4	70-130				
o-Xylene	0.0814	0.0050	"	0.100	ND	81.4	70-130				
1,2,4-Trimethylbenzene	0.0896	0.0050	"	0.100	ND	89.6	70-130				
1,3,5-Trimethylbenzene	0.0896	0.0050	"	0.100	ND	89.6	70-130				
Naphthalene	0.142	0.0038	"	0.100	0.0318	110	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0483		"	0.0400		121	23-173				
<i>Surrogate: Toluene-d8</i>	0.0418		"	0.0400		105	20-170				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0427		"	0.0400		107	21-167				

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 04/04/22 10:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFA0363 - EPA 5030 Soil MS

Matrix Spike Dup (BFA0363-MSD1)	Source: 2201215-01			Prepared & Analyzed: 01/24/22							
Benzene	0.0810	0.0020	mg/kg	0.100	ND	81.0	70-130	3.24	30		
Toluene	0.0819	0.0050	"	0.100	ND	81.9	70-130	3.06	30		
Ethylbenzene	0.0717	0.0050	"	0.100	ND	71.7	70-130	13.0	30		
m,p-Xylene	0.143	0.010	"	0.200	ND	71.5	70-130	11.7	30		
o-Xylene	0.0731	0.0050	"	0.100	ND	73.1	70-130	10.7	30		
1,2,4-Trimethylbenzene	0.0790	0.0050	"	0.100	ND	79.0	70-130	12.7	30		
1,3,5-Trimethylbenzene	0.0784	0.0050	"	0.100	ND	78.4	70-130	13.4	30		
Naphthalene	0.146	0.0038	"	0.100	0.0318	114	70-130	2.38	30		
Surrogate: 1,2-Dichloroethane-d4	0.0504		"	0.0400		126	23-173				
Surrogate: Toluene-d8	0.0421		"	0.0400		105	20-170				
Surrogate: 4-Bromofluorobenzene	0.0428		"	0.0400		107	21-167				

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 04/04/22 10:58

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFA0368 - EPA 3550A

Blank (BFA0368-BLK1)

Prepared: 01/24/22 Analyzed: 01/25/22

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

LCS (BFA0368-BS1)

Prepared: 01/24/22 Analyzed: 01/25/22

C10-C28 (DRO)	472	50	mg/kg	500	94.5	70-130				
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Matrix Spike (BFA0368-MS1)

Source: 2201215-01

Prepared: 01/24/22 Analyzed: 01/25/22

C10-C28 (DRO)	554	50	mg/kg	500	21.6	107	70-130			
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Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 04/04/22 10:58

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFA0399 - EPA 5030 Soil MS

Blank (BFA0399-BLK1)

Prepared: 01/25/22 Analyzed: 01/26/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0214</i>		<i>"</i>	<i>0.0333</i>		<i>64.1</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0228</i>		<i>"</i>	<i>0.0333</i>		<i>68.5</i>	<i>40-150</i>			

LCS (BFA0399-BS1)

Prepared: 01/25/22 Analyzed: 01/26/22

Acenaphthene	0.0249	0.00500	mg/kg	0.0333		74.6	31-137			
Anthracene	0.0251	0.00500	"	0.0333		75.4	30-120			
Benzo (a) anthracene	0.0257	0.00500	"	0.0333		77.1	30-120			
Benzo (a) pyrene	0.0268	0.00500	"	0.0333		80.4	30-120			
Benzo (b) fluoranthene	0.0276	0.00500	"	0.0333		82.7	30-120			
Benzo (k) fluoranthene	0.0309	0.00500	"	0.0333		92.7	30-120			
Chrysene	0.0271	0.00500	"	0.0333		81.4	30-120			
Dibenz (a,h) anthracene	0.0274	0.00500	"	0.0333		82.2	30-120			
Fluoranthene	0.0268	0.00500	"	0.0333		80.5	30-120			
Fluorene	0.0264	0.00500	"	0.0333		79.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0306	0.00500	"	0.0333		91.7	30-120			
Pyrene	0.0285	0.00500	"	0.0333		85.5	35-142			
1-Methylnaphthalene	0.0229	0.00500	"	0.0333		68.6	35-142			
2-Methylnaphthalene	0.0216	0.00500	"	0.0333		64.9	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0214</i>		<i>"</i>	<i>0.0333</i>		<i>64.3</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0243</i>		<i>"</i>	<i>0.0333</i>		<i>72.9</i>	<i>40-150</i>			

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/04/22 10:58

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFA0399 - EPA 5030 Soil MS

Matrix Spike (BFA0399-MS1)	Source: 2201213-01			Prepared: 01/25/22 Analyzed: 01/26/22							
Acenaphthene	0.0203	0.00500	mg/kg	0.0333	ND	61.0	31-137				
Anthracene	0.0208	0.00500	"	0.0333	ND	62.4	30-120				
Benzo (a) anthracene	0.0211	0.00500	"	0.0333	ND	63.3	30-120				
Benzo (a) pyrene	0.0217	0.00500	"	0.0333	ND	65.2	30-120				
Benzo (b) fluoranthene	0.0222	0.00500	"	0.0333	ND	66.7	30-120				
Benzo (k) fluoranthene	0.0255	0.00500	"	0.0333	ND	76.6	30-120				
Chrysene	0.0230	0.00500	"	0.0333	ND	68.9	30-120				
Dibenz (a,h) anthracene	0.0227	0.00500	"	0.0333	ND	68.1	30-120				
Fluoranthene	0.0217	0.00500	"	0.0333	ND	65.0	30-120				
Fluorene	0.0211	0.00500	"	0.0333	ND	63.2	30-120				
Indeno (1,2,3-cd) pyrene	0.0244	0.00500	"	0.0333	ND	73.1	30-120				
Pyrene	0.0239	0.00500	"	0.0333	ND	71.8	35-142				
1-Methylnaphthalene	0.0225	0.00500	"	0.0333	ND	67.4	15-130				
2-Methylnaphthalene	0.0235	0.00500	"	0.0333	ND	70.6	15-130				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0227</i>		<i>"</i>	<i>0.0333</i>		<i>68.2</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0218</i>		<i>"</i>	<i>0.0333</i>		<i>65.3</i>	<i>40-150</i>				

Matrix Spike Dup (BFA0399-MSD1)	Source: 2201213-01			Prepared: 01/25/22 Analyzed: 01/27/22							
Acenaphthene	0.0200	0.00500	mg/kg	0.0333	ND	60.0	31-137	1.59	30		
Anthracene	0.0228	0.00500	"	0.0333	ND	68.4	30-120	9.26	30		
Benzo (a) anthracene	0.0231	0.00500	"	0.0333	ND	69.3	30-120	9.03	30		
Benzo (a) pyrene	0.0239	0.00500	"	0.0333	ND	71.6	30-120	9.45	30		
Benzo (b) fluoranthene	0.0246	0.00500	"	0.0333	ND	73.8	30-120	10.1	30		
Benzo (k) fluoranthene	0.0280	0.00500	"	0.0333	ND	83.9	30-120	9.08	30		
Chrysene	0.0245	0.00500	"	0.0333	ND	73.6	30-120	6.57	30		
Dibenz (a,h) anthracene	0.0264	0.00500	"	0.0333	ND	79.3	30-120	15.2	30		
Fluoranthene	0.0237	0.00500	"	0.0333	ND	71.1	30-120	8.94	30		
Fluorene	0.0216	0.00500	"	0.0333	ND	64.7	30-120	2.41	30		
Indeno (1,2,3-cd) pyrene	0.0275	0.00500	"	0.0333	ND	82.6	30-120	12.3	30		
Pyrene	0.0245	0.00500	"	0.0333	ND	73.4	35-142	2.27	30		
1-Methylnaphthalene	0.0232	0.00500	"	0.0333	ND	69.6	15-130	3.20	50		
2-Methylnaphthalene	0.0237	0.00500	"	0.0333	ND	71.0	15-130	0.528	50		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0242</i>		<i>"</i>	<i>0.0333</i>		<i>72.6</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0234</i>		<i>"</i>	<i>0.0333</i>		<i>70.1</i>	<i>40-150</i>				

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 04/04/22 10:58

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

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

Batch BFA0364 - EPA 3050B

Blank (BFA0364-BLK1)				Prepared: 01/24/22 Analyzed: 02/08/22						
Boron	ND	0.0100	mg/L							
LCS (BFA0364-BS1)				Prepared: 01/24/22 Analyzed: 02/08/22						
Boron	4.43	0.0100	mg/L	5.00	88.6	80-120				
Duplicate (BFA0364-DUP1)				Source: 2201215-01 Prepared: 01/24/22 Analyzed: 02/08/22						
Boron	0.0195	0.0100	mg/L		0.0208			6.45	20	
Matrix Spike (BFA0364-MS1)				Source: 2201215-01 Prepared: 01/24/22 Analyzed: 02/08/22						
Boron	1.74	0.0100	mg/L	5.00	0.0208	34.4	75-125			QM-05
Matrix Spike Dup (BFA0364-MSD1)				Source: 2201215-01 Prepared: 01/24/22 Analyzed: 02/08/22						
Boron	1.78	0.0100	mg/L	5.00	0.0208	35.2	75-125	2.27	25	QM-05

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 04/04/22 10:58

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFC0082 - EPA 3050B

Blank (BFC0082-BLK1)

Prepared: 03/04/22 Analyzed: 03/09/22

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

LCS (BFC0082-BS1)

Prepared: 03/04/22 Analyzed: 03/09/22

Arsenic	40.5	0.200	mg/kg wet	40.0		101	80-120
Barium	34.7	0.400	"	40.0		86.7	80-120
Cadmium	1.81	0.200	"	2.00		90.7	80-120
Copper	36.3	0.400	"	40.0		90.8	80-120
Lead	17.2	0.200	"	20.0		85.8	80-120
Nickel	34.7	0.400	"	40.0		86.8	80-120
Selenium	3.33	0.260	"	4.00		83.3	80-120
Silver	1.84	0.0200	"	2.00		91.8	80-120
Zinc	41.3	0.400	"	40.0		103	80-120

Duplicate (BFC0082-DUP1)

Source: 2203001-09

Prepared: 03/04/22 Analyzed: 03/09/22

Arsenic	1.39	0.204	mg/kg dry	1.44		3.69	20
Barium	7.83	0.407	"	7.52		4.06	20
Cadmium	0.0754	0.204	"	0.0779		3.20	20
Copper	4.33	0.407	"	4.33		0.169	20
Lead	3.65	0.204	"	3.65		0.0954	20
Nickel	1.10	0.407	"	1.09		1.22	20
Selenium	0.777	0.265	"	0.757		2.61	20
Silver	0.0631	0.0204	"	0.0616		2.32	20
Zinc	13.4	0.407	"	13.1		1.97	20

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/04/22 10:58

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFC0082 - EPA 3050B

Matrix Spike (BFC0082-MS1)

Source: 2203001-09

Prepared: 03/04/22 Analyzed: 03/09/22

Arsenic	43.3	0.204	mg/kg dry	40.7	1.44	103	75-125			
Barium	41.4	0.407	"	40.7	7.52	83.2	75-125			
Cadmium	1.90	0.204	"	2.04	0.0779	89.4	75-125			
Copper	40.5	0.407	"	40.7	4.33	88.8	75-125			
Lead	20.1	0.204	"	20.4	3.65	80.7	75-125			
Nickel	35.9	0.407	"	40.7	1.09	85.4	75-125			
Selenium	4.06	0.265	"	4.07	0.757	81.2	75-125			
Silver	1.82	0.0204	"	2.04	0.0616	86.2	75-125			
Zinc	57.1	0.407	"	40.7	13.1	108	75-125			

Matrix Spike Dup (BFC0082-MSD1)

Source: 2203001-09

Prepared: 03/04/22 Analyzed: 03/09/22

Arsenic	43.7	0.204	mg/kg dry	40.7	1.44	104	75-125	0.926	25
Barium	43.9	0.407	"	40.7	7.52	89.4	75-125	5.89	25
Cadmium	1.91	0.204	"	2.04	0.0779	90.0	75-125	0.597	25
Copper	40.9	0.407	"	40.7	4.33	89.7	75-125	0.958	25
Lead	20.1	0.204	"	20.4	3.65	80.9	75-125	0.227	25
Nickel	36.3	0.407	"	40.7	1.09	86.4	75-125	1.13	25
Selenium	4.03	0.265	"	4.07	0.757	80.3	75-125	0.883	25
Silver	1.84	0.0204	"	2.04	0.0616	87.5	75-125	1.51	25
Zinc	55.4	0.407	"	40.7	13.1	104	75-125	3.07	25

Batch BFC0686 - EPA 3050B

Blank (BFC0686-BLK1)

Prepared: 03/29/22 Analyzed: 04/03/22

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

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/04/22 10:58

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFC0686 - EPA 3050B

LCS (BFC0686-BS1)

Prepared: 03/29/22 Analyzed: 04/03/22

Arsenic	36.6	0.200	mg/kg wet	40.0		91.5	80-120			
Barium	39.0	0.400	"	40.0		97.5	80-120			
Cadmium	1.85	0.200	"	2.00		92.6	80-120			
Copper	36.0	0.400	"	40.0		90.0	80-120			
Lead	19.3	0.200	"	20.0		96.7	80-120			
Nickel	34.5	0.400	"	40.0		86.4	80-120			
Selenium	3.36	0.260	"	4.00		84.0	80-120			
Silver	1.88	0.0200	"	2.00		93.9	80-120			
Zinc	38.6	0.400	"	40.0		96.6	80-120			

Duplicate (BFC0686-DUP1)

Source: 2201215-03

Prepared: 03/29/22 Analyzed: 04/03/22

Arsenic	3.53	0.221	mg/kg dry		3.43			2.66	20
Barium	73.4	0.441	"		70.5			3.94	20
Cadmium	0.143	0.221	"		0.138			3.45	20
Copper	6.38	0.441	"		6.19			3.04	20
Lead	6.34	0.221	"		6.06			4.54	20
Nickel	8.98	0.441	"		8.73			2.83	20
Selenium	0.590	0.287	"		0.558			5.57	20
Silver	0.0365	0.0221	"		0.0370			1.46	20
Zinc	31.6	0.441	"		30.6			3.19	20

Matrix Spike (BFC0686-MS1)

Source: 2201215-03

Prepared: 03/29/22 Analyzed: 04/03/22

Arsenic	40.1	0.221	mg/kg dry	44.1	3.43	83.0	75-125		
Barium	107	0.441	"	44.1	70.5	82.9	75-125		
Cadmium	2.00	0.221	"	2.21	0.138	84.4	75-125		
Copper	41.5	0.441	"	44.1	6.19	80.0	75-125		
Lead	23.1	0.221	"	22.1	6.06	77.4	75-125		
Nickel	44.2	0.441	"	44.1	8.73	80.3	75-125		
Selenium	3.12	0.287	"	4.41	0.558	58.1	75-125		
Silver	1.79	0.0221	"	2.21	0.0370	79.3	75-125		
Zinc	70.0	0.441	"	44.1	30.6	89.2	75-125		

QM-05

Summit Scientific

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



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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 04/04/22 10:58

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BFC0686 - EPA 3050B

Matrix Spike Dup (BFC0686-MSD1)	Source: 2201215-03			Prepared: 03/29/22		Analyzed: 04/03/22					
Arsenic	38.6	0.221	mg/kg dry	44.1	3.43	79.6	75-125	3.82	25		
Barium	108	0.441	"	44.1	70.5	84.3	75-125	0.574	25		
Cadmium	1.92	0.221	"	2.21	0.138	80.9	75-125	3.96	25		
Copper	39.5	0.441	"	44.1	6.19	75.5	75-125	4.87	25		
Lead	22.6	0.221	"	22.1	6.06	75.0	75-125	2.34	25		
Nickel	41.9	0.441	"	44.1	8.73	75.2	75-125	5.27	25		
Selenium	3.05	0.287	"	4.41	0.558	56.4	75-125	2.49	25		QM-05
Silver	1.71	0.0221	"	2.21	0.0370	75.7	75-125	4.49	25		
Zinc	67.1	0.441	"	44.1	30.6	82.8	75-125	4.15	25		

Summit Scientific

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



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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 04/04/22 10:58

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFB0070 - 3060A Mod

Blank (BFB0070-BLK1)

Prepared & Analyzed: 02/08/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFB0070-BS1)

Prepared & Analyzed: 02/08/22

Chromium, Hexavalent 27.9 0.30 mg/kg wet 25.0 112 80-120

Duplicate (BFB0070-DUP1)

Source: 2201215-01

Prepared & Analyzed: 02/08/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFB0070-MS1)

Source: 2201215-01

Prepared & Analyzed: 02/08/22

Chromium, Hexavalent 33.9 0.30 mg/kg dry 31.2 ND 109 75-125

Matrix Spike Dup (BFB0070-MSD1)

Source: 2201215-01

Prepared & Analyzed: 02/08/22

Chromium, Hexavalent 31.7 0.30 mg/kg dry 31.2 ND 102 75-125 6.46 20

Summit Scientific

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



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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 04/04/22 10:58

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

Summit Scientific

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

Batch BFA0357 - General Preparation

Blank (BFA0357-BLK1)

Prepared: 01/21/22 Analyzed: 01/28/22

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

LCS (BFA0357-BS1)

Prepared: 01/21/22 Analyzed: 01/28/22

Calcium	6.00	0.0500	mg/L wet	5.00		120	70-130			
Magnesium	5.31	0.0500	"	5.00		106	70-130			
Sodium	5.30	0.0500	"	5.00		106	70-130			

Summit Scientific

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



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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 04/04/22 10:58

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

Summit Scientific

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

Batch BFA0348 - General Preparation

Duplicate (BFA0348-DUP1)		Source: 2112425-03			Prepared: 01/21/22 Analyzed: 01/24/22	
% Solids	85.9		%		85.9	0.0396 20

Batch BFB0057 - General Preparation

Duplicate (BFB0057-DUP1)		Source: 2201151-02			Prepared & Analyzed: 02/07/22	
% Solids	86.0		%		86.5	0.596 20

Summit Scientific

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



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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 04/04/22 10:58

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

Summit Scientific

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

Batch BFA0377 - General Preparation

Blank (BFA0377-BLK1)

Prepared & Analyzed: 01/24/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFA0377-BS1)

Prepared & Analyzed: 01/24/22

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 100 95-105

Duplicate (BFA0377-DUP1)

Source: 2112425-03

Prepared & Analyzed: 01/24/22

Specific Conductance (EC) 5.66 0.0100 mmhos/cm 5.67 0.194 20

Summit Scientific

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



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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 04/04/22 10:58

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

Summit Scientific

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

Batch BFA0376 - General Preparation

LCS (BFA0376-BS1)

Prepared & Analyzed: 01/24/22

pH 9.00 pH Units 9.18 98.0 95-105

Duplicate (BFA0376-DUP1)

Source: 2201189-10

Prepared & Analyzed: 01/24/22

pH 7.05 pH Units 6.82 3.32 20

Summit Scientific

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



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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
04/04/22 10:58

Notes and Definitions

- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 22, 2022

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

Denver, CO 80203

RE: Gerry 3 Wellhead

Work Order #2212310

Enclosed are the results of analyses for samples received by Summit Scientific on 12/15/22 17:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott Sheely For Paul Shrewsbury

President



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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 12/22/22 10:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@4'	2212310-01	Soil	12/15/22 09:40	12/15/22 17:40
SS02@9'	2212310-02	Soil	12/15/22 10:20	12/15/22 17:40
SS04@6'	2212310-04	Soil	12/15/22 10:45	12/15/22 17:40
SS06@6'	2212310-06	Soil	12/15/22 11:00	12/15/22 17:40
SS08@6'	2212310-08	Soil	12/15/22 11:15	12/15/22 17:40
SS09@2.5'	2212310-09	Soil	12/15/22 11:25	12/15/22 17:40
SS10@6'	2212310-10	Soil	12/15/22 11:30	12/15/22 17:40
BKG02@2.5'	2212310-11	Soil	12/15/22 11:45	12/15/22 17:40
BKG02@6'	2212310-12	Soil	12/15/22 11:50	12/15/22 17:40
BKG02@9'	2212310-13	Soil	12/15/22 11:55	12/15/22 17:40
BKG03@2.5'	2212310-14	Soil	12/15/22 13:05	12/15/22 17:40
BKG03@6'	2212310-15	Soil	12/15/22 13:10	12/15/22 17:40
BKG03@9'	2212310-16	Soil	12/15/22 13:15	12/15/22 17:40
BKG04@2.5'	2212310-17	Soil	12/15/22 13:25	12/15/22 17:40
BKG04@6'	2212310-18	Soil	12/15/22 13:30	12/15/22 17:40
BKG04@9'	2212310-19	Soil	12/15/22 13:35	12/15/22 17:40
BKG05@2.5'	2212310-20	Soil	12/15/22 13:45	12/15/22 17:40
BKG05@6'	2212310-21	Soil	12/15/22 13:50	12/15/22 17:40
BKG05@9'	2212310-22	Soil	12/15/22 13:55	12/15/22 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.

Summit Scientific

S.

2212310.1

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 3

Client: PDC / Tasman Project Manager: Mark Longhurst
 Address: 6855 W 119th Ave E-Mail: mark.longhurst@PDCE.com
 City/State/Zip: Broomfield/ CO/ 80020
 Phone: 303-487-1228 Project Name: Gerry 3 Wellhead
 Sampler Name: David Vigliani Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN - 8260B	TPH - (C6 - C36)	pH, EC, SAR	Boron - HWS	TMBs (1,2,4)&(1,3,5)	PAH - 915		Metals - 915
1	SS01 @ 4'	12/15/22	0940	3			X			X				X	X	X	X	X	X	pH, EC, SAR by saturated paste ★ Arsenic, barium, lead, selenium
2	SS02 @ 9'		1020	3			X			X			X	X	X	X	X	X		
3	SS03 @ 2.5'		1040	1			X			X			X	X	X	X	X	X		
4	SS04 @ 6'		1045	3			X			X			X	X	X	X	X	X		
5	SS05 @ 2.5'		1055	1			X			X			X	X	X	X	X	X		
6	SS06 @ 6'		1100	3			X			X			X	X	X	X	X	X		
7	SS07 @ 2.5'		1110	1			X			X			X	X	X	X	X	X		
8	SS08 @ 6'		1115	3			X			X			X	X	X	X	X	X		
9	SS09 @ 2.5'		1125	1			X			X			X	X	X	X	X	X		
10	SS10 @ 6'		1130	3			X			X			X	X	X	X	X	X		

Relinquished by: <i>David Vigliani</i>	Date/Time: 12/15/22 1545	Received by: Tasman's Lock Box	Date/Time: 12/15/22 1545	Turn Around Time (Check) Same Day <input checked="" type="checkbox"/> 72 hours ___ 24 hours ___ Standard ___ 48 hours ___ Sample Integrity: Temperature Upon Receipt: 9.1 Samples Intact: <input checked="" type="checkbox"/> Yes No	Notes:
Relinquished by: Tasman's Lock Box	Date/Time: 12/15/22 1740	Received by: <i>[Signature]</i>	Date/Time: 12/15/22 1740		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Summit Scientific

S₂

2012310.3

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

Page 3 of 3

Client: PDC / Tasman Project Manager: Mark Longhurst
Address: 6855 W 119th Ave E-Mail: mark.longhurst@PDCE.com
City/State/Zip: Broomfield/ CO/ 80020
Phone: 303-487-1228 Project Name: Gerry 3 Wellhead
Sampler Name: David Vigil Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions			
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN - 8260B	TPH - (C6 - C36)	pH, EC, SAR	Boron - HWS	TMBs (1,2,4)&(1,3,5)	PAH - 915		Metals - 915		
1	BK605 @ 6'	12/15/22	1350	1			X														pH, EC, SAR by saturated paste	
2	BK605 @ 9'	↓	1355	1			X															X
3							X															X
4																						
5																						
6																						
7																						
8																						
9																						
10																						

Relinquished by: <u>David Vigil</u>	Date/Time: <u>12/15/22</u> <u>1545</u>	Received by: <u>Tasman's Lock Box</u>	Date/Time: <u>12/15/22</u> <u>1545</u>	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> Sample Integrity: Temperature Upon Receipt: <u>9.1</u> Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes:
Relinquished by: <u>Tasman's Lock Box</u>	Date/Time: <u>12/15/22</u> <u>1740</u>	Received by: <u>[Signature]</u>	Date/Time: <u>12/15/22</u> <u>1740</u>		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

S₂

3/3

S2 Work Order# 2212310

Sample Receipt Checklist

Client: Poc Tasman Client Project ID: Gerry 3 wellhead

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

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

Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same day
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.

[Signature]
Custodian Printed Name

12.15.22
Date/Time



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

Project: Gerry 3 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

SS01@4'
2212310-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/15/22 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0407	12/15/22	12/16/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.037	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.12	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	48	0.50	"	"	"	"	"	"	

Date Sampled: **12/15/22 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0445	111 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0419	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0487	122 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/15/22 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	670	50	mg/kg	1	BFL0408	12/15/22	12/15/22	EPA 8015M	
C28-C36 (ORO)	66	50	"	"	"	"	"	"	

Date Sampled: **12/15/22 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.6	101 %	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: Gerry 3 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

SS01@4'
2212310-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/15/22 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0413	12/16/22	12/17/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.0377	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0290	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.00898	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0993	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0851	0.00500	"	"	"	"	"	"	

Date Sampled: **12/15/22 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0182	54.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0299	89.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/15/22 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.420	0.0100	mg/L	1	BFL0446	12/17/22	12/18/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/15/22 09:40**

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: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

SS01@4'
2212310-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.70	0.236	mg/kg dry	1	BFL0409	12/15/22	12/20/22	EPA 6020B	
Barium	88.6	0.471	"	"	"	"	"	"	
Cadmium	0.194	0.236	"	"	"	"	"	"	
Copper	10.2	0.471	"	"	"	"	"	"	
Lead	8.37	0.236	"	"	"	"	"	"	
Nickel	12.4	0.471	"	"	"	"	"	"	
Selenium	0.613	0.306	"	"	"	"	"	"	
Silver	0.0602	0.0236	"	"	"	"	"	"	
Zinc	40.8	0.471	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/15/22 09:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFL0490	12/19/22	12/19/22	EPA 7196A	

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

Date Sampled: 12/15/22 09:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	46.7	0.0589	mg/L dry	1	BFL0443	12/17/22	12/18/22	EPA 6020B	
Magnesium	17.4	0.0589	"	"	"	"	"	"	
Sodium	13.7	0.0589	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/15/22 09:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.434	0.00100	units	1	BFL0474	12/19/22	12/19/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/15/22 09:40

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

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 12/22/22 10:07

SS01@4'
2212310-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	84.9	%	1	BFL0432	12/16/22	12/16/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/15/22 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.428	0.0100	mmhos/cm	1	BFL0448	12/17/22	12/18/22	EPA 120.1	

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

Date Sampled: **12/15/22 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.85		pH Units	1	BFL0447	12/17/22	12/17/22	EPA 9045D	

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

SS02@9'
2212310-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/15/22 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFL0407	12/15/22	12/16/22	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **12/15/22 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0436	109 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0646	162 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/15/22 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFL0408	12/15/22	12/15/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **12/15/22 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	12.5	100 %		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: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

SS02@9'
2212310-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/15/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0413	12/16/22	12/17/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/15/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0268	80.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0259	77.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **12/15/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	10.8	0.200	mg/kg dry	1	BFL0409	12/15/22	12/20/22	EPA 6020B	
Barium	159	0.400	"	"	"	"	"	"	
Lead	8.28	0.200	"	"	"	"	"	"	
Selenium	0.615	0.260	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 12/22/22 10:07

SS02@9'
2212310-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/15/22 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	77.8			%	1	BFL0440	12/17/22	12/17/22	Calculation	

Summit Scientific

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

Project: Gerry 3 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

SS04@6'
2212310-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/15/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0407	12/15/22	12/16/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/15/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0416	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0409	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/15/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0408	12/15/22	12/15/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/15/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.5	92.3 %	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: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

SS04@6'
2212310-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/15/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0413	12/16/22	12/17/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/15/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0207	62.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0219	65.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **12/15/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.62	0.200	mg/kg dry	1	BFL0409	12/15/22	12/20/22	EPA 6020B	
Barium	98.1	0.400	"	"	"	"	"	"	
Lead	15.3	0.200	"	"	"	"	"	"	
Selenium	0.631	0.260	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 12/22/22 10:07

SS04@6'
2212310-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/15/22 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.6		%	1	BFL0440	12/17/22	12/17/22	Calculation	

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

SS06@6'
2212310-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/15/22 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFL0407	12/15/22	12/16/22	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **12/15/22 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0374	93.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0395	98.7 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/15/22 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFL0408	12/15/22	12/16/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **12/15/22 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	11.6	92.6 %		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: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

SS06@6'
2212310-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/15/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0413	12/16/22	12/17/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/15/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0237	71.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0240	72.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **12/15/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.92	0.200	mg/kg dry	1	BFL0409	12/15/22	12/20/22	EPA 6020B	
Barium	282	0.400	"	"	"	"	"	"	
Lead	9.53	0.200	"	"	"	"	"	"	
Selenium	0.578	0.260	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 12/22/22 10:07

SS06@6'
2212310-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/15/22 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.1		%	1	BFL0440	12/17/22	12/17/22	Calculation	

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

SS08@6'
2212310-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/15/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0407	12/15/22	12/16/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/15/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0396	98.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0399	99.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/15/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0408	12/15/22	12/16/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/15/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.2	89.3 %	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: Gerry 3 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

SS08@6'
2212310-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/15/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0413	12/16/22	12/17/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/15/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0214	64.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0200	60.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **12/15/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.57	0.200	mg/kg dry	1	BFL0429	12/16/22	12/18/22	EPA 6020B	
Barium	161	0.400	"	"	"	"	"	"	
Lead	9.26	0.200	"	"	"	"	"	"	
Selenium	0.209	0.260	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 12/22/22 10:07

SS08@6'
2212310-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/15/22 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.0		%	1	BFL0440	12/17/22	12/17/22	Calculation	

Summit Scientific

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

Project: Gerry 3 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

SS09@2.5'
2212310-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/15/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	1.13	0.0100	mg/L	1	BFL0446	12/17/22	12/18/22	EPA 6020B	

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

Date Sampled: **12/15/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	36.2	0.0585	mg/L dry	1	BFL0443	12/17/22	12/18/22	EPA 6020B	
Magnesium	10.8	0.0585	"	"	"	"	"	"	
Sodium	12.0	0.0585	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/15/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.450	0.00100	units	1	BFL0474	12/19/22	12/19/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/15/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.4		%	1	BFL0440	12/17/22	12/17/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/15/22 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.303	0.0100	mmhos/cm	1	BFL0448	12/17/22	12/18/22	EPA 120.1	

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

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 12/22/22 10:07

SS09@2.5'
2212310-09 (Soil)

Summit Scientific

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

Date Sampled: **12/15/22 11:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.00		pH Units	1	BFL0447	12/17/22	12/17/22	EPA 9045D	

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

SS10@6'
2212310-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/15/22 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFL0407	12/15/22	12/16/22	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **12/15/22 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0374	93.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0405	101 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/15/22 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFL0408	12/15/22	12/16/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **12/15/22 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	12.7	102 %		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: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

SS10@6'
2212310-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/15/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0413	12/16/22	12/17/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **12/15/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0238	71.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0238	71.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **12/15/22 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.88	0.200	mg/kg dry	1	BFL0429	12/16/22	12/18/22	EPA 6020B	
Barium	176	0.400	"	"	"	"	"	"	
Lead	9.85	0.200	"	"	"	"	"	"	
Selenium	0.250	0.260	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 12/22/22 10:07

SS10@6'
2212310-10 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/15/22 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	79.7			%	1	BFL0440	12/17/22	12/17/22	Calculation	

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

BKG02@2.5'
2212310-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **12/15/22 11:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.90	0.220	mg/kg dry	1	BFL0429	12/16/22	12/18/22	EPA 6020B	
Barium	60.3	0.440	"	"	"	"	"	"	
Cadmium	0.148	0.220	"	"	"	"	"	"	
Copper	5.65	0.440	"	"	"	"	"	"	
Lead	5.47	0.220	"	"	"	"	"	"	
Nickel	7.10	0.440	"	"	"	"	"	"	
Selenium	0.208	0.286	"	"	"	"	"	"	
Silver	0.0233	0.0220	"	"	"	"	"	"	
Zinc	21.9	0.440	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **12/15/22 11:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFL0537	12/20/22	12/21/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/15/22 11:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	90.9		%	1	BFL0481	12/19/22	12/19/22	Calculation	

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

BKG02@6'
2212310-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **12/15/22 11:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.70	0.223	mg/kg dry	1	BFL0429	12/16/22	12/18/22	EPA 6020B	
Barium	73.0	0.445	"	"	"	"	"	"	"
Cadmium	0.205	0.223	"	"	"	"	"	"	"
Copper	6.34	0.445	"	"	"	"	"	"	"
Lead	7.14	0.223	"	"	"	"	"	"	"
Nickel	8.17	0.445	"	"	"	"	"	"	"
Selenium	0.203	0.289	"	"	"	"	"	"	"
Silver	0.0285	0.0223	"	"	"	"	"	"	"
Zinc	27.4	0.445	"	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **12/15/22 11:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFL0537	12/20/22	12/21/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/15/22 11:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	89.9		%	1	BFL0481	12/19/22	12/19/22	Calculation	

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

BKG02@9'
2212310-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **12/15/22 11:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.53	0.237	mg/kg dry	1	BFL0429	12/16/22	12/18/22	EPA 6020B	
Barium	82.1	0.474	"	"	"	"	"	"	"
Cadmium	0.266	0.237	"	"	"	"	"	"	"
Copper	8.73	0.474	"	"	"	"	"	"	"
Lead	8.75	0.237	"	"	"	"	"	"	"
Nickel	9.86	0.474	"	"	"	"	"	"	"
Selenium	ND	0.308	"	"	"	"	"	"	"
Silver	0.0389	0.0237	"	"	"	"	"	"	"
Zinc	30.4	0.474	"	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **12/15/22 11:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFL0537	12/20/22	12/21/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/15/22 11:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	84.3		%	1	BFL0481	12/19/22	12/19/22	Calculation	

Summit Scientific

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

Project: Gerry 3 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

BKG03@2.5'
2212310-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **12/15/22 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.88	0.220	mg/kg dry	1	BFL0429	12/16/22	12/18/22	EPA 6020B	
Barium	56.9	0.440	"	"	"	"	"	"	
Cadmium	0.155	0.220	"	"	"	"	"	"	
Copper	4.77	0.440	"	"	"	"	"	"	
Lead	5.35	0.220	"	"	"	"	"	"	
Nickel	6.85	0.440	"	"	"	"	"	"	
Selenium	0.194	0.286	"	"	"	"	"	"	
Silver	0.0198	0.0220	"	"	"	"	"	"	
Zinc	21.1	0.440	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **12/15/22 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFL0537	12/20/22	12/21/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/15/22 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	91.0		%	1	BFL0481	12/19/22	12/19/22	Calculation	

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

BKG03@6'
2212310-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **12/15/22 13:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.98	0.232	mg/kg dry	1	BFL0429	12/16/22	12/18/22	EPA 6020B	
Barium	68.6	0.464	"	"	"	"	"	"	
Cadmium	0.227	0.232	"	"	"	"	"	"	
Copper	7.81	0.464	"	"	"	"	"	"	
Lead	7.61	0.232	"	"	"	"	"	"	
Nickel	9.36	0.464	"	"	"	"	"	"	
Selenium	ND	0.302	"	"	"	"	"	"	
Silver	0.0353	0.0232	"	"	"	"	"	"	
Zinc	28.7	0.464	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **12/15/22 13:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFL0537	12/20/22	12/21/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/15/22 13:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	86.2		%	1	BFL0481	12/19/22	12/19/22	Calculation	

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

BKG03@9'
2212310-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **12/15/22 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.39	0.237	mg/kg dry	1	BFL0429	12/16/22	12/18/22	EPA 6020B	
Barium	88.8	0.475	"	"	"	"	"	"	"
Cadmium	0.265	0.237	"	"	"	"	"	"	"
Copper	9.22	0.475	"	"	"	"	"	"	"
Lead	9.52	0.237	"	"	"	"	"	"	"
Nickel	10.9	0.475	"	"	"	"	"	"	"
Selenium	0.237	0.309	"	"	"	"	"	"	"
Silver	0.0480	0.0237	"	"	"	"	"	"	"
Zinc	34.5	0.475	"	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **12/15/22 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFL0537	12/20/22	12/21/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/15/22 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	84.2		%	1	BFL0481	12/19/22	12/19/22	Calculation	

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

BKG04@2.5'
2212310-17 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **12/15/22 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.63	0.221	mg/kg dry	1	BFL0429	12/16/22	12/18/22	EPA 6020B	
Barium	83.3	0.442	"	"	"	"	"	"	
Cadmium	0.201	0.221	"	"	"	"	"	"	
Copper	6.02	0.442	"	"	"	"	"	"	
Lead	6.19	0.221	"	"	"	"	"	"	
Nickel	7.78	0.442	"	"	"	"	"	"	
Selenium	0.226	0.287	"	"	"	"	"	"	
Silver	0.0265	0.0221	"	"	"	"	"	"	
Zinc	24.0	0.442	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **12/15/22 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFL0537	12/20/22	12/21/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/15/22 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	90.4		%	1	BFL0481	12/19/22	12/19/22	Calculation	

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

BKG04@6'
2212310-18 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **12/15/22 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	6.38	0.241	mg/kg dry	1	BFL0429	12/16/22	12/18/22	EPA 6020B	
Barium	126	0.481	"	"	"	"	"	"	
Cadmium	0.291	0.241	"	"	"	"	"	"	
Copper	10.9	0.481	"	"	"	"	"	"	
Lead	9.76	0.241	"	"	"	"	"	"	
Nickel	11.4	0.481	"	"	"	"	"	"	
Selenium	0.231	0.313	"	"	"	"	"	"	
Silver	0.0424	0.0241	"	"	"	"	"	"	
Zinc	32.4	0.481	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **12/15/22 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFL0537	12/20/22	12/21/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/15/22 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	83.1		%	1	BFL0481	12/19/22	12/19/22	Calculation	

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

BKG04@9'
2212310-19 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **12/15/22 13:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	5.44	0.236	mg/kg dry	1	BFL0429	12/16/22	12/18/22	EPA 6020B	
Barium	102	0.472	"	"	"	"	"	"	"
Cadmium	0.271	0.236	"	"	"	"	"	"	"
Copper	10.0	0.472	"	"	"	"	"	"	"
Lead	9.17	0.236	"	"	"	"	"	"	"
Nickel	11.3	0.472	"	"	"	"	"	"	"
Selenium	0.231	0.307	"	"	"	"	"	"	"
Silver	0.0335	0.0236	"	"	"	"	"	"	"
Zinc	33.1	0.472	"	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **12/15/22 13:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFL0537	12/20/22	12/21/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/15/22 13:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	84.7		%	1	BFL0481	12/19/22	12/19/22	Calculation	

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

BKG05@2.5'
2212310-20 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **12/15/22 13:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.68	0.228	mg/kg dry	1	BFL0429	12/16/22	12/18/22	EPA 6020B	
Barium	70.8	0.457	"	"	"	"	"	"	"
Cadmium	0.199	0.228	"	"	"	"	"	"	"
Copper	7.13	0.457	"	"	"	"	"	"	"
Lead	7.21	0.228	"	"	"	"	"	"	"
Nickel	8.25	0.457	"	"	"	"	"	"	"
Selenium	0.292	0.297	"	"	"	"	"	"	"
Silver	0.0338	0.0228	"	"	"	"	"	"	"
Zinc	25.5	0.457	"	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **12/15/22 13:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFL0537	12/20/22	12/21/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/15/22 13:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	87.6		%	1	BFL0481	12/19/22	12/19/22	Calculation	

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

BKG05@6'
2212310-21 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **12/15/22 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.84	0.229	mg/kg dry	1	BFL0429	12/16/22	12/18/22	EPA 6020B	
Barium	71.7	0.458	"	"	"	"	"	"	"
Cadmium	0.194	0.229	"	"	"	"	"	"	"
Copper	6.99	0.458	"	"	"	"	"	"	"
Lead	7.16	0.229	"	"	"	"	"	"	"
Nickel	8.65	0.458	"	"	"	"	"	"	"
Selenium	0.273	0.298	"	"	"	"	"	"	"
Silver	0.0339	0.0229	"	"	"	"	"	"	"
Zinc	25.8	0.458	"	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **12/15/22 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFL0537	12/20/22	12/21/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/15/22 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	87.3		%	1	BFL0481	12/19/22	12/19/22	Calculation	

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

BKG05@9'
2212310-22 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **12/15/22 13:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.40	0.236	mg/kg dry	1	BFL0429	12/16/22	12/18/22	EPA 6020B	
Barium	93.2	0.472	"	"	"	"	"	"	"
Cadmium	0.233	0.236	"	"	"	"	"	"	"
Copper	8.25	0.472	"	"	"	"	"	"	"
Lead	9.97	0.236	"	"	"	"	"	"	"
Nickel	9.44	0.472	"	"	"	"	"	"	"
Selenium	0.351	0.307	"	"	"	"	"	"	"
Silver	0.0382	0.0236	"	"	"	"	"	"	"
Zinc	29.4	0.472	"	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **12/15/22 13:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFL0537	12/20/22	12/21/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/15/22 13:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	84.8		%	1	BFL0481	12/19/22	12/19/22	Calculation	

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFL0407 - EPA 5030 Soil MS

Blank (BFL0407-BLK1)

Prepared: 12/15/22 Analyzed: 12/16/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0405		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0387		"	0.0400		96.8	50-150			

LCS (BFL0407-BS1)

Prepared: 12/15/22 Analyzed: 12/16/22

Benzene	0.0595	0.0020	mg/kg	0.0750		79.4	70-130			
Toluene	0.0607	0.0050	"	0.0750		80.9	70-130			
Ethylbenzene	0.0560	0.0050	"	0.0750		74.6	70-130			
m,p-Xylene	0.112	0.010	"	0.150		74.5	70-130			
o-Xylene	0.0581	0.0050	"	0.0750		77.4	70-130			
1,2,4-Trimethylbenzene	0.0575	0.0050	"	0.0750		76.7	70-130			
1,3,5-Trimethylbenzene	0.0559	0.0050	"	0.0750		74.5	70-130			
Naphthalene	0.0630	0.0038	"	0.0750		84.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0415		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0409		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0420		"	0.0400		105	50-150			

Matrix Spike (BFL0407-MS1)

Source: 2212297-02

Prepared: 12/15/22 Analyzed: 12/16/22

Benzene	0.0599	0.0020	mg/kg	0.0750	ND	79.9	70-130			
Toluene	0.0614	0.0050	"	0.0750	ND	81.8	70-130			
Ethylbenzene	0.0552	0.0050	"	0.0750	ND	73.6	70-130			
m,p-Xylene	0.110	0.010	"	0.150	ND	73.7	70-130			
o-Xylene	0.0589	0.0050	"	0.0750	ND	78.6	70-130			
1,2,4-Trimethylbenzene	0.0593	0.0050	"	0.0750	ND	79.1	70-130			
1,3,5-Trimethylbenzene	0.0574	0.0050	"	0.0750	ND	76.6	70-130			
Naphthalene	0.0780	0.0038	"	0.0750	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0399		"	0.0400		99.8	50-150			
Surrogate: Toluene-d8	0.0408		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0422		"	0.0400		105	50-150			

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 12/22/22 10:07

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFL0407 - EPA 5030 Soil MS

Matrix Spike Dup (BFL0407-MSD1)	Source: 2212297-02			Prepared: 12/15/22 Analyzed: 12/16/22					
Benzene	0.0607	0.0020	mg/kg	0.0750	ND	80.9	70-130	1.19	30
Toluene	0.0628	0.0050	"	0.0750	ND	83.7	70-130	2.22	30
Ethylbenzene	0.0562	0.0050	"	0.0750	ND	75.0	70-130	1.89	30
m,p-Xylene	0.112	0.010	"	0.150	ND	74.8	70-130	1.54	30
o-Xylene	0.0581	0.0050	"	0.0750	ND	77.5	70-130	1.38	30
1,2,4-Trimethylbenzene	0.0590	0.0050	"	0.0750	ND	78.7	70-130	0.507	30
1,3,5-Trimethylbenzene	0.0578	0.0050	"	0.0750	ND	77.1	70-130	0.677	30
Naphthalene	0.0758	0.0038	"	0.0750	ND	101	70-130	2.97	30
Surrogate: 1,2-Dichloroethane-d4	0.0391		"	0.0400		97.7	50-150		
Surrogate: Toluene-d8	0.0410		"	0.0400		103	50-150		
Surrogate: 4-Bromofluorobenzene	0.0424		"	0.0400		106	50-150		

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFL0408 - EPA 3550A

Blank (BFL0408-BLK1)

Prepared: 12/15/22 Analyzed: 12/16/22

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	14.2		"	12.5		114		30-150			

LCS (BFL0408-BS1)

Prepared: 12/15/22 Analyzed: 12/16/22

C10-C28 (DRO)	449	50	mg/kg	500		89.8		70-130			
Surrogate: <i>o</i> -Terphenyl	15.2		"	12.5		122		30-150			

Matrix Spike (BFL0408-MS1)

Source: 2212297-02

Prepared: 12/15/22 Analyzed: 12/16/22

C10-C28 (DRO)	478	50	mg/kg	500	21.3	91.4		70-130			
Surrogate: <i>o</i> -Terphenyl	16.5		"	12.5		132		30-150			

Matrix Spike Dup (BFL0408-MSD1)

Source: 2212297-02

Prepared: 12/15/22 Analyzed: 12/16/22

C10-C28 (DRO)	486	50	mg/kg	500	21.3	93.0		70-130	1.64	20	
Surrogate: <i>o</i> -Terphenyl	16.8		"	12.5		135		30-150			

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFL0413 - EPA 5030 Soil MS

Blank (BFL0413-BLK1)

Prepared & Analyzed: 12/16/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0273		"	0.0333		82.0		40-150		
Surrogate: Fluoranthene-d10	0.0284		"	0.0333		85.3		40-150		

LCS (BFL0413-BS1)

Prepared & Analyzed: 12/16/22

Acenaphthene	0.0308	0.00500	mg/kg	0.0333		92.5		31-137		
Anthracene	0.0314	0.00500	"	0.0333		94.2		30-120		
Benzo (a) anthracene	0.0307	0.00500	"	0.0333		92.2		30-120		
Benzo (a) pyrene	0.0289	0.00500	"	0.0333		86.8		30-120		
Benzo (b) fluoranthene	0.0308	0.00500	"	0.0333		92.5		30-120		
Benzo (k) fluoranthene	0.0306	0.00500	"	0.0333		91.7		30-120		
Chrysene	0.0314	0.00500	"	0.0333		94.2		30-120		
Dibenz (a,h) anthracene	0.0281	0.00500	"	0.0333		84.3		30-120		
Fluoranthene	0.0308	0.00500	"	0.0333		92.4		30-120		
Fluorene	0.0316	0.00500	"	0.0333		94.7		30-120		
Indeno (1,2,3-cd) pyrene	0.0328	0.00500	"	0.0333		98.4		30-120		
Pyrene	0.0314	0.00500	"	0.0333		94.3		35-142		
1-Methylnaphthalene	0.0323	0.00500	"	0.0333		96.8		35-142		
2-Methylnaphthalene	0.0357	0.00500	"	0.0333		107		35-142		
Surrogate: 2-Methylnaphthalene-d10	0.0305		"	0.0333		91.5		40-150		
Surrogate: Fluoranthene-d10	0.0312		"	0.0333		93.7		40-150		

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFL0413 - EPA 5030 Soil MS

Matrix Spike (BFL0413-MS1)	Source: 2212307-01			Prepared & Analyzed: 12/16/22							
Acenaphthene	0.0215	0.00500	mg/kg	0.0333	ND	64.4	31-137				
Anthracene	0.0222	0.00500	"	0.0333	ND	66.7	30-120				
Benzo (a) anthracene	0.0226	0.00500	"	0.0333	ND	68.0	30-120				
Benzo (a) pyrene	0.0201	0.00500	"	0.0333	ND	60.4	30-120				
Benzo (b) fluoranthene	0.0212	0.00500	"	0.0333	ND	63.6	30-120				
Benzo (k) fluoranthene	0.0205	0.00500	"	0.0333	ND	61.4	30-120				
Chrysene	0.0228	0.00500	"	0.0333	ND	68.5	30-120				
Dibenz (a,h) anthracene	0.0187	0.00500	"	0.0333	ND	56.2	30-120				
Fluoranthene	0.0226	0.00500	"	0.0333	ND	67.7	30-120				
Fluorene	0.0221	0.00500	"	0.0333	ND	66.3	30-120				
Indeno (1,2,3-cd) pyrene	0.0217	0.00500	"	0.0333	ND	65.1	30-120				
Pyrene	0.0236	0.00500	"	0.0333	ND	70.9	35-142				
1-Methylnaphthalene	0.0237	0.00500	"	0.0333	ND	71.0	15-130				
2-Methylnaphthalene	0.0222	0.00500	"	0.0333	ND	66.7	15-130				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0223</i>		<i>"</i>	<i>0.0333</i>		<i>66.8</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0234</i>		<i>"</i>	<i>0.0333</i>		<i>70.3</i>	<i>40-150</i>				

Matrix Spike Dup (BFL0413-MSD1)	Source: 2212307-01			Prepared & Analyzed: 12/16/22							
Acenaphthene	0.0201	0.00500	mg/kg	0.0333	ND	60.2	31-137	6.69	30		
Anthracene	0.0202	0.00500	"	0.0333	ND	60.7	30-120	9.39	30		
Benzo (a) anthracene	0.0212	0.00500	"	0.0333	ND	63.6	30-120	6.58	30		
Benzo (a) pyrene	0.0203	0.00500	"	0.0333	ND	61.0	30-120	0.924	30		
Benzo (b) fluoranthene	0.0205	0.00500	"	0.0333	ND	61.5	30-120	3.24	30		
Benzo (k) fluoranthene	0.0199	0.00500	"	0.0333	ND	59.8	30-120	2.56	30		
Chrysene	0.0214	0.00500	"	0.0333	ND	64.2	30-120	6.37	30		
Dibenz (a,h) anthracene	0.0179	0.00500	"	0.0333	ND	53.8	30-120	4.46	30		
Fluoranthene	0.0208	0.00500	"	0.0333	ND	62.4	30-120	8.17	30		
Fluorene	0.0202	0.00500	"	0.0333	ND	60.7	30-120	8.77	30		
Indeno (1,2,3-cd) pyrene	0.0214	0.00500	"	0.0333	ND	64.2	30-120	1.51	30		
Pyrene	0.0227	0.00500	"	0.0333	ND	68.1	35-142	4.03	30		
1-Methylnaphthalene	0.0239	0.00500	"	0.0333	ND	71.6	15-130	0.954	50		
2-Methylnaphthalene	0.0246	0.00500	"	0.0333	ND	73.8	15-130	10.2	50		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0224</i>		<i>"</i>	<i>0.0333</i>		<i>67.2</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0213</i>		<i>"</i>	<i>0.0333</i>		<i>64.0</i>	<i>40-150</i>				

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 12/22/22 10:07

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

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

Batch BFL0446 - EPA 3050B

Blank (BFL0446-BLK1)

Prepared & Analyzed: 12/17/22

Boron ND 0.0100 mg/L

LCS (BFL0446-BS1)

Prepared & Analyzed: 12/17/22

Boron 4.58 0.0100 mg/L 5.00 91.7 80-120

Duplicate (BFL0446-DUP1)

Source: 2212292-01

Prepared & Analyzed: 12/17/22

Boron 4.10 0.0100 mg/L 3.84 6.57 20

Matrix Spike (BFL0446-MS1)

Source: 2212292-01

Prepared & Analyzed: 12/17/22

Boron 8.10 0.0100 mg/L 5.00 3.84 85.1 75-125

Matrix Spike Dup (BFL0446-MSD1)

Source: 2212292-01

Prepared & Analyzed: 12/17/22

Boron 8.14 0.0100 mg/L 5.00 3.84 86.1 75-125 0.576 25

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 12/22/22 10:07

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFL0409 - EPA 3050B

Blank (BFL0409-BLK1)

Prepared: 12/15/22 Analyzed: 12/19/22

Arsenic	ND	0.200	mg/kg wet							
Arsenic	ND	0.200	"							
Barium	ND	0.400	"							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	0.251	0.400	"							
Lead	ND	0.200	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Selenium	ND	0.260	"							
Selenium	ND	0.260	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							

LCS (BFL0409-BS1)

Prepared: 12/15/22 Analyzed: 12/19/22

Arsenic	48.1	0.200	mg/kg wet	40.0	120	80-120
Arsenic	48.1	0.200	"	40.0	120	80-120
Barium	47.3	0.400	"	40.0	118	80-120
Barium	47.3	0.400	"	40.0	118	80-120
Cadmium	2.31	0.200	"	2.00	116	80-120
Copper	47.5	0.400	"	40.0	119	80-120
Lead	22.8	0.200	"	20.0	114	80-120
Lead	22.8	0.200	"	20.0	114	80-120
Nickel	47.6	0.400	"	40.0	119	80-120
Selenium	4.63	0.260	"	4.00	116	80-120
Selenium	4.63	0.260	"	4.00	116	80-120
Silver	2.20	0.0200	"	2.00	110	80-120
Zinc	45.3	0.400	"	40.0	113	80-120

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFL0409 - EPA 3050B

Duplicate (BFL0409-DUP1)	Source: 2212297-01			Prepared: 12/15/22 Analyzed: 12/19/22	
Arsenic	4.07	0.251	mg/kg dry	3.63	11.6 20
Arsenic	4.07	0.200	"	3.63	11.6 20
Barium	82.8	0.502	"	68.5	18.9 20
Barium	82.8	0.400	"	68.5	18.9 20
Cadmium	0.128	0.251	"	0.105	19.3 20
Copper	8.88	0.502	"	7.24	20.4 20 RPD-1
Lead	9.79	0.251	"	7.04	32.7 20 RPD-1
Lead	9.79	0.200	"	7.04	32.7 20 RPD-1
Nickel	12.2	0.502	"	9.88	20.8 20 RPD-1
Selenium	0.520	0.326	"	0.527	1.33 20
Selenium	0.520	0.260	"	0.527	1.33 20
Silver	0.0723	0.0251	"	0.0463	43.8 20 RPD-1
Zinc	57.7	0.502	"	44.7	25.4 20 RPD-1

Matrix Spike (BFL0409-MS1)	Source: 2212297-01			Prepared: 12/15/22 Analyzed: 12/19/22	
Arsenic	61.4	0.200	mg/kg dry	50.2	3.63 115 75-125
Arsenic	61.4	0.251	"	50.2	3.63 115 75-125
Barium	137	0.502	"	50.2	68.5 137 75-125 QM-07
Barium	137	0.400	"	50.2	68.5 137 75-125 QM-07
Cadmium	3.00	0.251	"	2.51	0.105 115 75-125
Copper	60.8	0.502	"	50.2	7.24 107 75-125
Lead	33.1	0.251	"	25.1	7.04 104 75-125
Lead	33.1	0.200	"	25.1	7.04 104 75-125
Nickel	64.7	0.502	"	50.2	9.88 109 75-125
Selenium	5.53	0.260	"	5.02	0.527 99.7 75-125
Selenium	5.53	0.326	"	5.02	0.527 99.7 75-125
Silver	2.87	0.0251	"	2.51	0.0463 112 75-125
Zinc	105	0.502	"	50.2	44.7 119 75-125

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 12/22/22 10:07

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFL0409 - EPA 3050B

Matrix Spike Dup (BFL0409-MSD1)

Source: 2212297-01

Prepared: 12/15/22 Analyzed: 12/19/22

Arsenic	67.8	0.200	mg/kg dry	50.2	3.63	128	75-125	9.80	25	QM-07
Arsenic	67.8	0.251	"	50.2	3.63	128	75-125	9.80	25	QM-07
Barium	157	0.502	"	50.2	68.5	177	75-125	13.5	25	QM-07
Barium	157	0.400	"	50.2	68.5	177	75-125	13.5	25	QM-07
Cadmium	3.43	0.251	"	2.51	0.105	132	75-125	13.2	25	QM-07
Copper	65.7	0.502	"	50.2	7.24	116	75-125	7.73	25	
Lead	35.8	0.251	"	25.1	7.04	115	75-125	7.88	25	
Lead	35.8	0.200	"	25.1	7.04	115	75-125	7.88	25	
Nickel	70.3	0.502	"	50.2	9.88	120	75-125	8.32	25	
Selenium	6.26	0.326	"	5.02	0.527	114	75-125	12.3	25	
Selenium	6.26	0.260	"	5.02	0.527	114	75-125	12.3	25	
Silver	3.00	0.0251	"	2.51	0.0463	117	75-125	4.38	25	
Zinc	112	0.502	"	50.2	44.7	135	75-125	7.14	25	QM-07

Post Spike (BFL0409-PS1)

Source: 2212297-01

Prepared: 12/15/22 Analyzed: 12/20/22

Arsenic	98.9		ug/l	100	7.22	91.7	75-125			
Arsenic	98.9		"	100	7.22	91.7	75-125			
Barium	208		"	100	136	71.5	75-125			QM-07
Barium	208		"	100	136	71.5	75-125			QM-07
Cadmium	4.29		"	5.00	0.210	81.6	75-125			
Copper	95.3		"	100	14.4	80.9	75-125			
Lead	50.5		"	50.0	14.0	73.1	75-125			QM-07
Nickel	102		"	100	19.7	82.3	75-125			
Selenium	9.37		"	10.0	1.05	83.2	75-125			
Selenium	9.37		"	10.0	1.05	83.2	75-125			
Silver	4.07		"	5.00	0.0922	79.6	75-125			
Zinc	176		"	100	89.0	86.8	75-125			

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 12/22/22 10:07

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFL0429 - EPA 3050B

Blank (BFL0429-BLK1)

Prepared: 12/16/22 Analyzed: 12/18/22

Arsenic	ND	0.200	mg/kg wet							
Arsenic	ND	0.200	"							
Barium	ND	0.400	"							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	0.195	0.400	"							
Lead	0.101	0.200	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Selenium	ND	0.260	"							
Selenium	ND	0.260	"							
Silver	0.00920	0.0200	"							
Zinc	0.301	0.400	"							

LCS (BFL0429-BS1)

Prepared: 12/16/22 Analyzed: 12/18/22

Arsenic	40.3	0.200	mg/kg wet	40.0	101	80-120
Arsenic	40.3	0.200	"	40.0	101	80-120
Barium	40.3	0.400	"	40.0	101	80-120
Barium	40.3	0.400	"	40.0	101	80-120
Cadmium	2.12	0.200	"	2.00	106	80-120
Copper	40.8	0.400	"	40.0	102	80-120
Lead	23.6	0.200	"	20.0	118	80-120
Lead	23.6	0.200	"	20.0	118	80-120
Nickel	40.7	0.400	"	40.0	102	80-120
Selenium	4.11	0.260	"	4.00	103	80-120
Selenium	4.11	0.260	"	4.00	103	80-120
Silver	2.00	0.0200	"	2.00	100	80-120
Zinc	40.7	0.400	"	40.0	102	80-120

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 12/22/22 10:07

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFL0429 - EPA 3050B

Duplicate (BFL0429-DUP1)	Source: 2212263-01			Prepared: 12/16/22 Analyzed: 12/18/22						
Arsenic	2.72	0.200	mg/kg dry	2.72					0.236	20
Arsenic	2.72	0.247	"	2.72					0.236	20
Barium	453	0.494	"	410					10.1	20
Barium	453	0.400	"	410					10.1	20
Cadmium	0.509	0.247	"	0.420					19.3	20
Copper	14.5	0.494	"	14.9					3.09	20
Lead	10.0	0.200	"	9.07					10.1	20
Lead	10.0	0.247	"	9.07					10.1	20
Nickel	5.43	0.494	"	5.64					3.76	20
Selenium	0.311	0.321	"	0.296					5.04	20
Selenium	0.311	0.260	"	0.296					5.04	20
Silver	0.0202	0.0247	"	0.0222					9.30	20
Zinc	21.1	0.494	"	22.0					4.22	20

Matrix Spike (BFL0429-MS1)	Source: 2212263-01			Prepared: 12/16/22 Analyzed: 12/18/22						
Arsenic	55.1	0.247	mg/kg dry	49.4	2.72	106	75-125			
Arsenic	55.1	0.200	"	49.4	2.72	106	75-125			
Barium	646	0.400	"	49.4	410	479	75-125			QM-02
Barium	646	0.494	"	49.4	410	479	75-125			QM-02
Cadmium	3.11	0.247	"	2.47	0.420	109	75-125			
Copper	57.7	0.494	"	49.4	14.9	86.6	75-125			
Lead	36.2	0.247	"	24.7	9.07	110	75-125			
Lead	36.2	0.200	"	24.7	9.07	110	75-125			
Nickel	50.3	0.494	"	49.4	5.64	90.5	75-125			
Selenium	6.07	0.321	"	4.94	0.296	117	75-125			
Selenium	6.07	0.260	"	4.94	0.296	117	75-125			
Silver	2.45	0.0247	"	2.47	0.0222	98.5	75-125			
Zinc	71.0	0.494	"	49.4	22.0	99.2	75-125			

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BFL0429 - EPA 3050B

Matrix Spike Dup (BFL0429-MSD1)

Source: 2212263-01

Prepared: 12/16/22 Analyzed: 12/18/22

Arsenic	54.3	0.247	mg/kg dry	49.4	2.72	105	75-125	1.39	25	
Arsenic	54.3	0.200	"	49.4	2.72	105	75-125	1.39	25	
Barium	808	0.494	"	49.4	410	806	75-125	22.3	25	QM-02
Barium	808	0.400	"	49.4	410	806	75-125	22.3	25	QM-02
Cadmium	2.97	0.247	"	2.47	0.420	103	75-125	4.54	25	
Copper	58.9	0.494	"	49.4	14.9	89.0	75-125	1.99	25	
Lead	35.6	0.200	"	24.7	9.07	107	75-125	1.69	25	
Lead	35.6	0.247	"	24.7	9.07	107	75-125	1.69	25	
Nickel	50.3	0.494	"	49.4	5.64	90.4	75-125	0.0530	25	
Selenium	5.97	0.321	"	4.94	0.296	115	75-125	1.65	25	
Selenium	5.97	0.260	"	4.94	0.296	115	75-125	1.65	25	
Silver	2.42	0.0247	"	2.47	0.0222	97.2	75-125	1.28	25	
Zinc	71.6	0.494	"	49.4	22.0	100	75-125	0.828	25	

Post Spike (BFL0429-PS1)

Source: 2212263-01

Prepared: 12/16/22 Analyzed: 12/18/22

Arsenic	85.8		ug/l	100	5.50	80.3	75-125			
Arsenic	85.8		"	100	5.50	80.3	75-125			
Barium	855		"	100	830	24.7	75-125			QM-01
Barium	855		"	100	830	24.7	75-125			QM-01
Cadmium	5.00		"	5.00	0.850	82.9	75-125			
Copper	109		"	100	30.2	79.1	75-125			
Lead	56.0		"	50.0	18.4	75.2	75-125			
Nickel	88.3		"	100	11.4	76.9	75-125			
Selenium	17.5		"	10.0	0.600	169	75-125			QM-01
Selenium	11.5		"	10.0	0.600	109	75-125			
Silver	3.91		"	5.00	0.0450	77.3	75-125			
Zinc	120		"	100	44.6	75.2	75-125			

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFL0490 - 3060A Mod

Blank (BFL0490-BLK1)

Prepared & Analyzed: 12/19/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFL0490-BS1)

Prepared & Analyzed: 12/19/22

Chromium, Hexavalent 22.4 0.30 mg/kg wet 25.0 89.4 80-120

Duplicate (BFL0490-DUP1)

Source: 2212307-06

Prepared & Analyzed: 12/19/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFL0490-MS1)

Source: 2212307-06

Prepared & Analyzed: 12/19/22

Chromium, Hexavalent 21.8 0.30 mg/kg dry 25.9 ND 84.0 75-125

Matrix Spike Dup (BFL0490-MSD1)

Source: 2212307-06

Prepared & Analyzed: 12/19/22

Chromium, Hexavalent 21.0 0.30 mg/kg dry 25.9 ND 81.2 75-125 3.39 20

Batch BFL0537 - 3060A Mod

Blank (BFL0537-BLK1)

Prepared: 12/20/22 Analyzed: 12/21/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFL0537-BS1)

Prepared: 12/20/22 Analyzed: 12/21/22

Chromium, Hexavalent 26.2 0.30 mg/kg wet 25.0 105 80-120

Duplicate (BFL0537-DUP1)

Source: 2212310-11

Prepared: 12/20/22 Analyzed: 12/21/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFL0537-MS1)

Source: 2212310-11

Prepared: 12/20/22 Analyzed: 12/21/22

Chromium, Hexavalent 27.6 0.30 mg/kg dry 27.5 ND 100 75-125

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 12/22/22 10:07

Hexavalent Chromium by EPA Method 7196 - Quality Control

Summit Scientific

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

Batch BFL0537 - 3060A Mod

Matrix Spike Dup (BFL0537-MSD1)

Source: 2212310-11

Prepared: 12/20/22 Analyzed: 12/21/22

Chromium, Hexavalent	23.8	0.30	mg/kg dry	27.5	ND	86.4	75-125	15.0	20	
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PDC Energy
 1775 Sherman St. STE. 3000
 Denver CO, 80203

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 12/22/22 10:07

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

Summit Scientific

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

Batch BFL0443 - General Preparation

Blank (BFL0443-BLK1)

Prepared: 12/17/22 Analyzed: 12/18/22

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

LCS (BFL0443-BS1)

Prepared: 12/17/22 Analyzed: 12/18/22

Calcium	4.89	0.0500	mg/L wet	5.00	97.8	70-130				
Magnesium	4.52	0.0500	"	5.00	90.5	70-130				
Sodium	4.70	0.0500	"	5.00	94.1	70-130				

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 12/22/22 10:07

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

Summit Scientific

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

Batch BFL0432 - General Preparation

Duplicate (BFL0432-DUP1)		Source: 2212228-13			Prepared & Analyzed: 12/16/22						
% Solids	91.4		%		91.2				0.171	20	

Batch BFL0440 - General Preparation

Duplicate (BFL0440-DUP1)		Source: 2212234-01			Prepared & Analyzed: 12/17/22						
% Solids	94.0		%		94.6				0.656	20	

Batch BFL0481 - General Preparation

Duplicate (BFL0481-DUP1)		Source: 2212154-03			Prepared & Analyzed: 12/19/22						
% Solids	92.1		%		92.3				0.197	20	

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Project Manager: Mark Longhurst

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 12/22/22 10:07

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

Summit Scientific

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

Batch BFL0448 - General Preparation

Blank (BFL0448-BLK1)

Prepared: 12/17/22 Analyzed: 12/18/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFL0448-BS1)

Prepared: 12/17/22 Analyzed: 12/18/22

Specific Conductance (EC) 0.146 0.0100 mmhos/cm 0.150 97.5 95-105

Duplicate (BFL0448-DUP1)

Source: 2212233-01

Prepared: 12/17/22 Analyzed: 12/18/22

Specific Conductance (EC) 0.562 0.0100 mmhos/cm 0.575 2.31 20

Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 12/22/22 10:07

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

Summit Scientific

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

Batch BFL0447 - General Preparation

LCS (BFL0447-BS1)

Prepared & Analyzed: 12/17/22

pH	9.00	pH Units	9.18	98.0	95-105
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Duplicate (BFL0447-DUP1)

Source: 2212153-08

Prepared & Analyzed: 12/17/22

pH	8.27	pH Units	8.23	0.485	20
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Summit Scientific

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

Project: Gerry 3 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
12/22/22 10:07

Notes and Definitions

- RPD-1 The RPD failure for the sample duplicate analysis is most likely due to a non-homogeneous sample matrix.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- QM-02 The RPD and/or percent recovery for this QC sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
- QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- 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