

TABLE 1
FORMER ANDERSON 42-10 WELLHEAD
SOIL ANALYTICAL RESULTS SUMMARY TABLE

Sample ID	Date Sampled	Depth	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1, 2, 4-TMB (mg/kg)	1, 3, 5-TMB (mg/kg)	Naphthalene (mg/kg)	TPH ⁽⁴⁾ (mg/kg)
Residential SSL ^(1,2)			1.2	490	5.8	58	30	27	2	500
Protection of Groundwater SSL ^(1,2,3)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500
WH01 @ 6'	5/26/2021	6 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50

Notes:

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

COGCC = Colorado Oil and Gas Conservation Commission

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

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

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

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

mg/kg = Milligrams per kilogram

TMB = Trimethylbenzene

ft. = Feet

bgs = Below ground surface

TABLE 2
FORMER ANDERSON 42-10 WELLHEAD
SOIL ANALYTICAL RESULTS SUMMARY TABLE
INORGANIC COMPOUNDS

Sample ID	Date Sampled	Depth	pH (units)	EC (mmhos/cm)	SAR (units)	Boron (mg/L)
Soil Suitability for Reclamation Standard ⁽¹⁾			6-8.3	<4	<6	2
FLR01 @ 2.5'	5/26/2021	2.5 ft. bgs	7.49	0.512	0.792	0.111

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

TABLE 3
FORMER ANDERSON 42-10 WELLHEAD
FIELD DATA SUMMARY TABLE

Sample ID	Date Sampled	Depth	GPS Data ⁽¹⁾ Latitude / Longitude		PDOP Value	VOC Concentration ⁽²⁾ (ppm)
WH01 @ 6'	5/26/2021	6 ft. bgs	40.504140	-104.756552	1.3	0.8
FLR01 @ 2.5'	5/26/2021	2.5 ft. bgs	40.504153	-104.756567	1.3	0.2
FLR01 @ 4'	5/26/2021	4 ft. bgs	40.504159	-104.756564	1.7	0.3
WHS01-N @ 0-6"	5/26/2021	0-6 in. bgs	40.504179	-104.756575	1.6	0.1
WHS01-W @ 0-6"	5/26/2021	0-6 in. bgs	40.504147	-104.756617	1.6	0.0
WHS01-S @ 0-6"	5/26/2021	0-6 in. bgs	40.504118	-104.756552	1.6	0.1
WHS01-E @ 0-6"	5/26/2021	0-6 in. bgs	40.504139	-104.756532	1.3	0.3
BKG01 @ 2.5'	5/26/2021	2.5 ft. bgs	40.504213	-104.756641	1.5	0.1
FL01-01 @ 4'	5/26/2021	4 ft. bgs	NC	NC	NC	0.6
FL01-02 @ 4'	5/26/2021	4 ft. bgs	NC	NC	NC	0.5
FL01-03 @ 4'	5/26/2021	4 ft. bgs	NC	NC	NC	1.7

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

NC = Data not collected

Attachment A

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 11, 2021

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

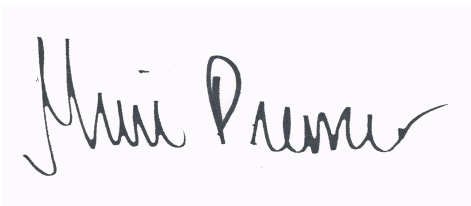
Denver, CO 80203

RE: Anderson 42-10 Wellhead

Work Order #2105453

Enclosed are the results of analyses for samples received by Summit Scientific on 05/27/21 17:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Muri Premier", is displayed on a light purple rectangular background.

Muri Premier For Paul Shrewsbury
President



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

Project: Anderson 42-10 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
06/11/21 12:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6'	2105453-01	Soil	05/26/21 12:25	05/27/21 17:15
FLR01@2.5'	2105453-02	Soil	05/26/21 12:27	05/27/21 17:15

Summit Scientific

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

Summit Scientific 2105453

S₂

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

Page 1 of 1

Client: PDC / Tasman	Project Manager: Mark Longhurst
Address: 6855 W 119th Ave	E-Mail: mark.longhurst@PDCE.com
City/State/Zip: Broomfield/ CO/ 80020	
Phone: 303-487-1228	Project Name: <u>Anderson 42-10 Wellhead</u>
Sampler Name: <u>Max Dahlgren</u>	Project Number:

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	915 - VOC	TPH - (C6 - C36)	pH, EC, SAR	Boron - HWS		D ₂ Hold			
1	WH1 @ 6'	5/26/21	1225	3			X			X			X	X							
2	FLR01 @ 2.5'	I	1227	1			X			X					X	X					
3	BKG01 @ 2.5'	I	1239	1			X			X								X			
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by:	Date/Time: 5/26/21 1742	Received by: <u>Tasman's Lock Box</u>	Date/Time: 5/27/21 1745	Turn Around Time (Check) Same Day _____ 72 hours _____ 24 hours _____ Standard <u>X</u> 48 hours _____	Notes:
Relinquished by: <u>Tasman's Lock Box</u>	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: <u>5</u> Samples Intact: <u>Yes</u> No	
Relinquished by:	Date/Time:	Received by:	Date/Time:		

2105453

Sample Receipt Checklist

S2 Work Order _____

Client: PDC / Tasman Client Project ID Anderson 42-10 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)	5
-----------	---

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	On ice.
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input 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, H ₂ SO ₄ , NaOH, HNO ₃ , ect	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

JB
Custodian Printed Name or Initials

John Br
Signature of Custodian

5/27/21
Date/Time



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

Project: Anderson 42-10 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
06/11/21 12:33

WH01@6'
2105453-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/26/21 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEF0100	06/03/21	06/04/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/26/21 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		130 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.1 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/26/21 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEF0099	06/03/21	06/04/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/26/21 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		75.1 %	30-150		"	"	"	"	

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

Project: Anderson 42-10 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
06/11/21 12:33

FLR01@2.5'
2105453-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/26/21 12:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.111	0.0100	mg/L	1	BEF0110	06/04/21	06/07/21	EPA 6020B	

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

Date Sampled: **05/26/21 12:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	48.1	0.0545	mg/L dry	1	BEF0093	06/03/21	06/08/21	EPA 6020B	
Magnesium	17.0	0.0545	"	"	"	"	"	"	
Sodium	25.1	0.0545	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/26/21 12:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.792	0.00100	units	1	BEF0177	06/08/21	06/08/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/26/21 12:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.7		%	1	BEF0082	06/03/21	06/04/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/26/21 12:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.512	0.0100	mmhos/cm	1	BEF0120	06/04/21	06/04/21	EPA 120.1	

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

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1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Anderson 42-10 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
06/11/21 12:33

FLR01@2.5'
2105453-02 (Soil)

Summit Scientific

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

Date Sampled: **05/26/21 12:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.49			pH Units	1	BEF0119	06/04/21	06/04/21	EPA 9045D	

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

Project: Anderson 42-10 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
06/11/21 12:33

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEF0100 - EPA 5030 Soil MS

Blank (BEF0100-BLK1)

Prepared & Analyzed: 06/03/21

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0386		"	0.0400		96.4	23-173			
Surrogate: Toluene-d8	0.0431		"	0.0400		108	20-170			
Surrogate: 4-Bromofluorobenzene	0.0406		"	0.0400		102	21-167			

LCS (BEF0100-BS1)

Prepared & Analyzed: 06/03/21

Benzene	0.0888	0.0020	mg/kg	0.100		88.8	70-130			
Toluene	0.0844	0.0050	"	0.100		84.4	70-130			
Ethylbenzene	0.0958	0.0050	"	0.100		95.8	70-130			
m,p-Xylene	0.185	0.010	"	0.200		92.4	70-130			
o-Xylene	0.0857	0.0050	"	0.100		85.7	70-130			
1,2,4-Trimethylbenzene	0.0901	0.0050	"	0.100		90.1	70-130			
1,3,5-Trimethylbenzene	0.0913	0.0050	"	0.100		91.3	70-130			
Naphthalene	0.0969	0.0038	"	0.100		96.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0268		"	0.0400		67.0	23-173			
Surrogate: Toluene-d8	0.0411		"	0.0400		103	20-170			
Surrogate: 4-Bromofluorobenzene	0.0386		"	0.0400		96.5	21-167			

Matrix Spike (BEF0100-MS1)

Source: 2105450-06

Prepared & Analyzed: 06/03/21

Benzene	0.0851	0.0020	mg/kg	0.100	ND	85.1	70-130			
Toluene	0.0821	0.0050	"	0.100	ND	82.1	70-130			
Ethylbenzene	0.0962	0.0050	"	0.100	ND	96.2	70-130			
m,p-Xylene	0.186	0.010	"	0.200	ND	92.8	70-130			
o-Xylene	0.0871	0.0050	"	0.100	ND	87.1	70-130			
1,2,4-Trimethylbenzene	0.0922	0.0050	"	0.100	ND	92.2	70-130			
1,3,5-Trimethylbenzene	0.0924	0.0050	"	0.100	ND	92.4	70-130			
Naphthalene	0.0789	0.0038	"	0.100	ND	78.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0226		"	0.0400		56.5	23-173			
Surrogate: Toluene-d8	0.0418		"	0.0400		104	20-170			
Surrogate: 4-Bromofluorobenzene	0.0371		"	0.0400		92.8	21-167			

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

Project: Anderson 42-10 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
06/11/21 12:33

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

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

Batch BEF0100 - EPA 5030 Soil MS

Matrix Spike Dup (BEF0100-MSD1)		Source: 2105450-06			Prepared & Analyzed: 06/03/21					
Benzene	0.0852	0.0020	mg/kg	0.100	ND	85.2	70-130	0.106	30	
Toluene	0.0812	0.0050	"	0.100	ND	81.2	70-130	1.10	30	
Ethylbenzene	0.0943	0.0050	"	0.100	ND	94.3	70-130	2.02	30	
m,p-Xylene	0.181	0.010	"	0.200	ND	90.4	70-130	2.59	30	
o-Xylene	0.0852	0.0050	"	0.100	ND	85.2	70-130	2.16	30	
1,2,4-Trimethylbenzene	0.0903	0.0050	"	0.100	ND	90.3	70-130	2.04	30	
1,3,5-Trimethylbenzene	0.0898	0.0050	"	0.100	ND	89.8	70-130	2.83	30	
Naphthalene	0.0789	0.0038	"	0.100	ND	78.9	70-130	0.0760	30	
Surrogate: 1,2-Dichloroethane-d4		0.0232	"	0.0400		57.9	23-173			
Surrogate: Toluene-d8		0.0422	"	0.0400		106	20-170			
Surrogate: 4-Bromofluorobenzene		0.0363	"	0.0400		90.8	21-167			

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

Project: Anderson 42-10 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
06/11/21 12:33

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BEF0099 - EPA 3550A

Blank (BEF0099-BLK1)

Prepared: 06/03/21 Analyzed: 06/04/21

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

LCS (BEF0099-BS1)

Prepared: 06/03/21 Analyzed: 06/04/21

C10-C28 (DRO)	513	50	mg/kg	500	103	70-130
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Matrix Spike (BEF0099-MS1)

Source: 2105450-01

Prepared: 06/03/21 Analyzed: 06/04/21

C10-C28 (DRO)	447	50	mg/kg	500	13.8	86.6	70-130
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Matrix Spike Dup (BEF0099-MSD1)

Source: 2105450-01

Prepared: 06/03/21 Analyzed: 06/04/21

C10-C28 (DRO)	467	50	mg/kg	500	13.8	90.7	70-130	4.45	20
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Summit Scientific

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

Project: Anderson 42-10 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
06/11/21 12:33

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

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

Batch BEF0110 - EPA 3050B

Blank (BEF0110-BLK1)

Prepared: 06/04/21 Analyzed: 06/07/21

Boron ND 0.0100 mg/L

LCS (BEF0110-BS1)

Prepared: 06/04/21 Analyzed: 06/07/21

Boron 5.45 0.0100 mg/L 5.00 109 80-120

Duplicate (BEF0110-DUP1)

Source: 2105438-02

Prepared: 06/04/21 Analyzed: 06/07/21

Boron 1.23 0.0100 mg/L 1.13 8.51 20

Matrix Spike (BEF0110-MS1)

Source: 2105438-02

Prepared: 06/04/21 Analyzed: 06/07/21

Boron 6.44 0.0100 mg/L 5.00 1.13 106 75-125

Matrix Spike Dup (BEF0110-MSD1)

Source: 2105438-02

Prepared: 06/04/21 Analyzed: 06/07/21

Boron 5.22 0.0100 mg/L 5.00 1.13 81.8 75-125 21.0 25

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

Project: Anderson 42-10 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
06/11/21 12:33

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

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

Batch BEF0093 - General Preparation

Blank (BEF0093-BLK1)

Prepared: 06/03/21 Analyzed: 06/08/21

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

LCS (BEF0093-BS1)

Prepared: 06/03/21 Analyzed: 06/08/21

Calcium	5.06	0.0500	mg/L wet	5.00	101	70-130
Magnesium	5.14	0.0500	"	5.00	103	70-130
Sodium	5.35	0.0500	"	5.00	107	70-130

Summit Scientific

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

Project: Anderson 42-10 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
06/11/21 12:33

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

Summit Scientific

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

Batch BEF0082 - General Preparation

Duplicate (BEF0082-DUP1)		Source: 2105284-09		Prepared: 06/03/21 Analyzed: 06/04/21	
% Solids	95.3		%	95.1	0.183 20

Summit Scientific

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

Project: Anderson 42-10 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
06/11/21 12:33

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

Summit Scientific

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

Batch BEF0120 - General Preparation

Blank (BEF0120-BLK1)

Prepared & Analyzed: 06/04/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BEF0120-BS1)

Prepared & Analyzed: 06/04/21

Specific Conductance (EC) 0.143 0.0100 mmhos/cm 0.150 95.2 90-110

Duplicate (BEF0120-DUP1)

Source: 2105431-04

Prepared & Analyzed: 06/04/21

Specific Conductance (EC) 0.192 0.0100 mmhos/cm 0.192 0.0520 20

Summit Scientific

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

Project: Anderson 42-10 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:

06/11/21 12:33

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

Summit Scientific

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

Batch BEF0119 - General Preparation

LCS (BEF0119-BS1)

Prepared & Analyzed: 06/04/21

pH	9.25	pH Units	9.21	100	95-105
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Duplicate (BEF0119-DUP1)

Source: 2105359-09

Prepared & Analyzed: 06/04/21

pH	7.48	pH Units	7.47	0.134	20
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Summit Scientific

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

Project: Anderson 42-10 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
06/11/21 12:33

Notes and Definitions

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