

TABLE 1
FORMER LEAFGREN 23-17 WELLHEAD
SOIL ANALYTICAL RESULTS SUMMARY TABLE

Sample ID	Date Sampled	Depth	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TPH ⁽⁴⁾ (mg/kg)
Residential SSL^(1,2)			1.2	490	5.8	58	2	500
Protection of Groundwater SSL^(1,2,3)			0.0026	0.69	0.78	9.9	0.0038	500
FLR01 @ 4'	3/3/2021	4 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<50

Notes:

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

COGCC = Colorado Oil and Gas Conservation Commission

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

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

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

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

mg/kg = Milligrams per kilogram

ft. = Feet

bgs = Below ground surface

TABLE 2
FORMER LEAFGREN 23-17 WELLHEAD
SOIL ANALYTICAL RESULTS SUMMARY TABLE
INORGANIC COMPOUNDS

Sample ID	Date Sampled	Depth	pH (units)	EC (mmhos/cm)	SAR (units)	Boron (mg/L)
Soil Suitabilty for Reclamation Standard ⁽¹⁾			6-8.3	<4	<6	2
WH01 @ 2.5'	3/3/2021	2.5 ft. bgs	8.22	0.552	1.30	0.169

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

ft. = Feet

bgs = Below ground surface

EC = Electrical conductivity

SAR = Sodium adsorption ratio

mmhos/cm = millimhos per centimeter

mg/L = milligram per liter

TABLE 3
FORMER LEAFGREN 23-17 WELLHEAD
FIELD DATA SUMMARY TABLE

Sample ID	Date Sampled	Depth	GPS Data ⁽¹⁾ Latitude / Longitude		PDOP Value	VOC Concentration ⁽²⁾ (ppm)
FLR01 @ 4'	3/3/2021	4 ft. bgs	40.484979	-104.690540	1.0	1.3
WH01 @ 2.5'	3/3/2021	2.5 ft. bgs	40.484979	-104.690548	1.0	0.6
WHS01-N @ 0-6"	3/3/2021	0-6 in. bgs	40.485024	-104.690535	1.0	0.9
WHS01-W @ 0-6"	3/3/2021	0-6 in. bgs	40.484979	-104.690605	1.1	1.5
WHS01-S @ 0-6"	3/3/2021	0-6 in. bgs	40.484932	-104.690551	1.2	1.2
WHS01-E @ 0-6"	3/3/2021	0-6 in. bgs	40.484972	-104.690506	1.1	0.5
FL01-01 @ 4'	3/3/2021	4 ft. bgs	40.482994	-104.694104	0.9	1.7
FL01-02 @ 4'	3/3/2021	4 ft. bgs	40.483590	-104.693262	1.1	1.2
FL01-03 @ 4'	3/3/2021	4 ft. bgs	40.484057	-104.692549	1.3	1.1
FL01-04 @ 4'	3/3/2021	4 ft. bgs	40.484574	-104.691656	1.3	1.3
FL01-ND @ 4'	3/3/2021	4 ft. bgs	40.484481	-104.691896	1.1	0.5
FL01-SD @ 4'	3/3/2021	4 ft. bgs	40.484428	-104.691982	1.0	0.9
BKG01 @ 2.5'	3/3/2021	2.5 ft. bgs	40.485187	-104.690677	1.1	0.3

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).

ft. = Feet

in. = inches

bgs = Below ground surface

PDOP = Position Dilution of Precision

ppm = Parts per million

Attachment A

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 11, 2021

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

Denver, CO 80203

RE: Leafgren 23-17 Wellhead

Work Order #2103068

Enclosed are the results of analyses for samples received by Summit Scientific on 03/03/21 17:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury

President



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

Project: Leafgren 23-17 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/11/21 12:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FLR01@4'	2103068-01	Soil	03/03/21 14:39	03/03/21 17:30
WH01@2.5'	2103068-02	Soil	03/03/21 14:40	03/03/21 17:30

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

303-277-9310

Page 1 of 1

Project Manager: Mark Longhurst

E-Mail: mark.longhurst@PDCE.com

Phone: 303-487-1228

Project Name: Leafgren 23-17 Wellhead

Sampler Name: J. Marcus

Project Number: *N/a*

					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 GBTEXN - 8260B	⁹¹⁵ TPH - (C6 - C36)	pH, EC, SAR ⁹¹⁵	Boron - HWS ⁹¹⁵	VOC - 915	PAH - 915	Metals - 915	Hold	pH, EC, SAR by saturated paste	
1	FLR01 @ 4'	3/3/21	1439	2			X			X			X	X								
2	WH01 @ 2.5'	↓	1440	2			X			X					X	X						
3	BKG01 @ 2.5'	↓	1444	2			X			X										X		
4																						
5																						
6																						
7																						
8																						
9																						
10																						
Relinquished by:		Date/Time:		Received by:		Date/Time:		Turn Around Time		(Check)		Notes:										
		3/3/21 1440		Tasman's Lock Box		3/3/21 1440		Same Day		72 hours												
								24 hours		Standard												X
Relinquished by:		Date/Time:		Received by:		Date/Time:		48 hours				Sample Integrity:										
Tasman's Lock Box		03/03/2021 1730				03/03/2021 1730																
Relinquished by:		Date/Time:		Received by:		Date/Time:		Temperature Upon Receipt:		27		Samples Intact: Yes No										

Sample Receipt Checklist

S2 Work Order

2103068

Client:

POC/TABMAN

Client Project ID:

Leafgreen 23-17 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)

27

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.				
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 checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect				
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

Custodian Printed Name or Initials

Signature of Custodian

Date/Time

03/03/2021



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

Project: Leafgren 23-17 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/11/21 12:40

FLR01@4'
2103068-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/03/21 14:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BEC0114	03/04/21	03/06/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/03/21 14:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		103 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		106 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.4 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/03/21 14:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BEC0139	03/05/21	03/06/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/03/21 14:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		94.6 %	30-150		"	"	"	"	

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1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Leafgren 23-17 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/11/21 12:40

WH01@2.5'
2103068-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/03/21 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.169	0.0100	mg/L	1	BEC0184	03/09/21	03/11/21	EPA 6020B	

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

Date Sampled: **03/03/21 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	67.6	0.0576	mg/L dry	1	BEC0187	03/09/21	03/10/21	EPA 6020B	
Magnesium	17.2	0.0576	"	"	"	"	"	"	
Sodium	46.2	0.0576	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/03/21 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.30	0.100	units	1	BEC0227	03/11/21	03/11/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/03/21 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.7		%	1	BEC0146	03/08/21	03/09/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/03/21 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.552	0.0100	mmhos/cm	1	BEC0214	03/10/21	03/10/21	EPA 120.1	

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

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

Project: Leafgren 23-17 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/11/21 12:40

WH01@2.5'
2103068-02 (Soil)

Summit Scientific

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

Date Sampled: **03/03/21 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.22			pH Units	1	BEC0215	03/10/21	03/10/21	EPA 9045D	

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

Project: Leafgren 23-17 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/11/21 12:40

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEC0114 - EPA 5030 Soil MS

Blank (BEC0114-BLK1)

Prepared: 03/04/21 Analyzed: 03/05/21

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0370		"	0.0400		92.4	23-173			
Surrogate: Toluene-d8	0.0495		"	0.0400		124	20-170			
Surrogate: 4-Bromofluorobenzene	0.0412		"	0.0400		103	21-167			

LCS (BEC0114-BS1)

Prepared: 03/04/21 Analyzed: 03/05/21

Benzene	0.158	0.0020	mg/kg	0.125	ND	126	70-130			
Toluene	0.124	0.0050	"	0.125	ND	99.0	70-130			
Ethylbenzene	0.138	0.0050	"	0.125	ND	111	70-130			
m,p-Xylene	0.270	0.010	"	0.250	ND	108	70-130			
o-Xylene	0.141	0.0050	"	0.125	ND	113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0423		"	0.0400		106	23-173			
Surrogate: Toluene-d8	0.0370		"	0.0400		92.5	20-170			
Surrogate: 4-Bromofluorobenzene	0.0385		"	0.0400		96.3	21-167			

Matrix Spike (BEC0114-MS1)

Source: 2103046-01

Prepared: 03/04/21 Analyzed: 03/05/21

Benzene	0.155	0.0020	mg/kg	0.125	ND	124	70-130			
Toluene	0.111	0.0050	"	0.125	ND	88.9	70-130			
Ethylbenzene	0.118	0.0050	"	0.125	ND	94.3	70-130			
m,p-Xylene	0.222	0.010	"	0.250	ND	88.8	70-130			
o-Xylene	0.115	0.0050	"	0.125	ND	92.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0452		"	0.0400		113	23-173			
Surrogate: Toluene-d8	0.0341		"	0.0400		85.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0389		"	0.0400		97.2	21-167			

Summit Scientific

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

Project: Leafgren 23-17 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/11/21 12:40

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 BEC0114 - EPA 5030 Soil MS

Matrix Spike Dup (BEC0114-MSD1)	Source: 2103046-01			Prepared: 03/04/21 Analyzed: 03/05/21						
Benzene	0.144	0.0020	mg/kg	0.125	ND	115	70-130	7.50	30	
Toluene	0.102	0.0050	"	0.125	ND	82.0	70-130	8.09	30	
Ethylbenzene	0.123	0.0050	"	0.125	ND	98.1	70-130	3.87	30	
m,p-Xylene	0.233	0.010	"	0.250	ND	93.4	70-130	5.01	30	
o-Xylene	0.121	0.0050	"	0.125	ND	96.8	70-130	4.98	30	
Surrogate: 1,2-Dichloroethane-d4	0.0432		"	0.0400		108	23-173			
Surrogate: Toluene-d8	0.0345		"	0.0400		86.2	20-170			
Surrogate: 4-Bromofluorobenzene	0.0408		"	0.0400		102	21-167			

Summit Scientific

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

Project: Leafgren 23-17 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/11/21 12:40

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 BEC0139 - EPA 3550A

Blank (BEC0139-BLK1)

Prepared & Analyzed: 03/05/21

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

LCS (BEC0139-BS1)

Prepared & Analyzed: 03/05/21

C10-C28 (DRO)	412	50	mg/kg	500	82.3	70-130
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Matrix Spike (BEC0139-MS1)

Source: 2103064-01

Prepared & Analyzed: 03/05/21

C10-C28 (DRO)	421	50	mg/kg	500	18.3	80.5	70-130
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Matrix Spike Dup (BEC0139-MSD1)

Source: 2103064-01

Prepared & Analyzed: 03/05/21

C10-C28 (DRO)	397	50	mg/kg	500	18.3	75.8	70-130	5.70	20
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Summit Scientific

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

Project: Leafgren 23-17 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/11/21 12:40

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 BEC0184 - EPA 3050B

Blank (BEC0184-BLK1)

Prepared: 03/09/21 Analyzed: 03/11/21

Boron ND 0.0100 mg/L

LCS (BEC0184-BS1)

Prepared: 03/09/21 Analyzed: 03/11/21

Boron 5.38 0.0100 mg/L 5.00 108 80-120

Duplicate (BEC0184-DUP1)

Source: 2103052-01

Prepared: 03/09/21 Analyzed: 03/11/21

Boron 0.203 0.0100 mg/L 0.237 15.8 20

Matrix Spike (BEC0184-MS1)

Source: 2103052-01

Prepared: 03/09/21 Analyzed: 03/11/21

Boron 5.42 0.0100 mg/L 5.00 0.237 104 75-125

Matrix Spike Dup (BEC0184-MSD1)

Source: 2103052-01

Prepared: 03/09/21 Analyzed: 03/11/21

Boron 5.28 0.0100 mg/L 5.00 0.237 101 75-125 2.64 25

Summit Scientific

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

Project: Leafgren 23-17 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/11/21 12:40

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

Summit Scientific

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

Batch BEC0187 - General Preparation

Blank (BEC0187-BLK1)

Prepared: 03/09/21 Analyzed: 03/10/21

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

LCS (BEC0187-BS1)

Prepared: 03/09/21 Analyzed: 03/10/21

Calcium	5.33	0.0500	mg/L wet	5.00	107	70-130
Magnesium	5.71	0.0500	"	5.00	114	70-130
Sodium	5.34	0.0500	"	5.00	107	70-130

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

Project: Leafgren 23-17 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/11/21 12:40

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

Summit Scientific

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

Batch BEC0146 - General Preparation

Duplicate (BEC0146-DUP1)		Source: 2103066-06		Prepared: 03/08/21 Analyzed: 03/09/21	
% Solids	85.3		%	83.0	2.73 20

Summit Scientific

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

Project: Leafgren 23-17 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/11/21 12:40

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 BEC0214 - General Preparation

Blank (BEC0214-BLK1)

Prepared & Analyzed: 03/10/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BEC0214-BS1)

Prepared & Analyzed: 03/10/21

Specific Conductance (EC) 0.148 0.0100 mmhos/cm 0.150 98.8 90-110

Duplicate (BEC0214-DUP1)

Source: 2103044-02

Prepared & Analyzed: 03/10/21

Specific Conductance (EC) 1.17 0.0100 mmhos/cm 1.17 0.257 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: Leafgren 23-17 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/11/21 12:40

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 BEC0215 - General Preparation

LCS (BEC0215-BS1)

Prepared & Analyzed: 03/10/21

pH	9.21	pH Units	9.21	100	95-105
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Duplicate (BEC0215-DUP1)

Source: 2103044-02

Prepared & Analyzed: 03/10/21

pH	8.05	pH Units	8.03	0.249	20
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Summit Scientific

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

Project: Leafgren 23-17 Wellhead

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
03/11/21 12:40

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