TABLE 1
FORMER STROHAUER 32-22D WELLHEAD
SOIL ANALYTICAL RESULTS SUMMARY TABLE
ORGANIC COMPOUNDS

Sample ID	Date Sampled	Depth	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1, 2, 4-TMB (mg/kg)	1, 3, 5-TMB (mg/kg)	Naphthalene (mg/kg)	TPH[4] (mg/kg)
Residential SSL [1,2]			**1.2**	**490**	**5.8**	**58**	**30**	**27**	**2**	**500**
Protection of Groundwater SSL [1,2,3]			**0.0026**	**0.69**	**0.78**	**9.9**	**0.0081**	**0.0087**	**0.0038**	**500**
FL01-01 @ 4'	2/8/2022	4 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	**0.020**	77

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
BOLD = Analytical result is in exceedance of applicable standard.

TABLE 2
FORMER STROHAUER 32-22D WELLHEAD
FIELD DATA SUMMARY TABLE

Sample ID	Date Sampled	Depth	GPS Data [1] Latitude / Longitude		PDOP Value	VOC Concentration [2] (ppm)
BKG01 @ 6'	2/8/2022	6 ft. bgs	40.352108	-104.683083	1.1	1.1
BKG01 @ 4'	2/8/2022	4 ft. bgs	40.352052	-104.682778	1.1	0.2
FL01-01 @ 4'	2/8/2022	4 ft. bgs	40.351779	-104.681768	NC	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).

PDOP = Position Dilution of Precision
ppm = Parts per million
ft. = Feet
bgs = Below ground surface
NC = Data not collected

ATTACHMENT A

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

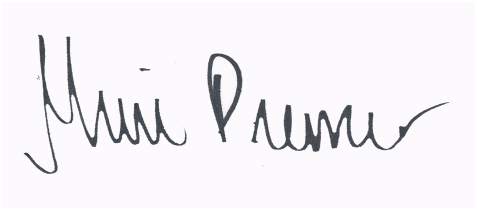
February 22, 2022

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

RE: Strohauer 32-22D Wellhead
Work Order #2202065

Enclosed are the results of analyses for samples received by Summit Scientific on 02/08/22 15:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Muri Premer
Project Manager

S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Strohauer 32-22D Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 02/22/22 14:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP01-FL@4'	2202065-01	Soil	02/08/22 10:00	02/08/22 15:00
FLR01@4'	2202065-02	Soil	02/08/22 12:06	02/08/22 15:00
FL01-01@4'	2202065-05	Soil	02/08/22 14:12	02/08/22 15:00

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

2202065

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:	Strohauer 32-22D wellhead
Sampler Name:	Mataya W.	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 ___	GBTEXN - 8260B	TPH - (C6 - C36)	pH, EC, SAR	Boron - HWS	VOC - 915	PAH - 915	Metals - 915	mass (1,3,5)(2,4)	pH, EC, SAR by saturated paste
1	SEP01-FL @4'	2/8/22	1000	3			X			X			X	X						X	
2	FLR01 @4'	↓	1206	3			X			X			X	X	X	X		X		X	
3	BKG01 @4'		1200	1			X			X											X
4	BKG01 @6'		1202	1			X			X											X
5	F101-01@4'		1412	3			X			X			X	X						X	
6																					
7																					
8																					
9																					
10																					

Relinquished by:	Date/Time:	Received by:	Date/Time:
Mataya W.	2/8/22	Tasman's Lock Box	
Relinquished by: Tasman's Lock Box	Date/Time:	Received by:	Date/Time: 2822 1500
Relinquished by:	Date/Time:	Received by:	Date/Time:

Turn Around Time (Check)

Same Day	___	72 hours	___
24 hours	___	Standard	X
48 hours	___		

Sample Integrity:
Temperature Upon Receipt: 6.1
Samples Intact: (Yes) No

Notes:

S2

2202065

S2 Work Order#_____

Sample Receipt Checklist

Client: Rochusman Client Project ID: Strohauer 32-22D 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)	6.1

Thermometer ID: G86A9201901378

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

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

RTC

Custodian Printed Name or Initials

2.8.22

Date/Time

S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Strohauer 32-22D Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 02/22/22 14:51

SEP01-FL@4'

2202065-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/08/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFB0093	02/09/22	02/11/22	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: **02/08/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*91.6 %*	*70-130*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*70-130*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.4 %*	*70-130*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/08/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFB0092	02/09/22	02/10/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/08/22 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*98.9 %*	*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.

S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Strohauer 32-22D Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 02/22/22 14:51

FLR01@4'

2202065-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/08/22 12:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFB0093	02/09/22	02/10/22	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	**0.70**	0.50	"	"	"	"	"	"	

Date Sampled: **02/08/22 12:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*70-130*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*70-130*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

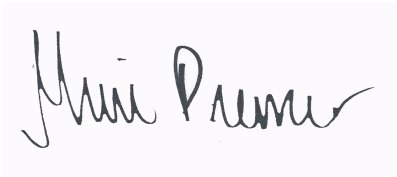
Date Sampled: **02/08/22 12:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFB0092	02/09/22	02/10/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/08/22 12:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*85.9 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM



S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Strohauer 32-22D Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 02/22/22 14:51

FLR01@4'

2202065-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/08/22 12:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFB0084	02/09/22	02/10/22	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: **02/08/22 12:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		*63.3 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10		*63.8 %*	*40-150*		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/08/22 12:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**97.3**		%	1	BFB0083	02/09/22	02/09/22	Calculation	

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S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Strohauer 32-22D Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 02/22/22 14:51

FL01-01@4'

2202065-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/08/22 14:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFB0093	02/09/22	02/10/22	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	**0.020**	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **02/08/22 14:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*99.3 %*	*70-130*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*70-130*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*70-130*		"	"	"	"	

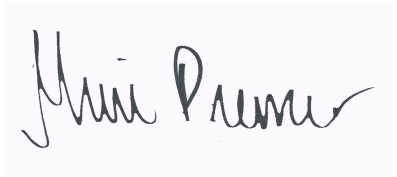
Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/08/22 14:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**77**	50	mg/kg	1	BFB0092	02/09/22	02/10/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **02/08/22 14:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*97.4 %*	*30-150*		"	"	"	"	



S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Strohauer 32-22D Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 02/22/22 14:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BFB0093 - EPA 5030 Soil MS										
Blank (BFB0093-BLK1)				Prepared: 02/09/22 Analyzed: 02/11/22						
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	*0.0376*		*"*	*0.0400*		*94.1*	*70-130*			
Surrogate: Toluene-d8	*0.0443*		*"*	*0.0400*		*111*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0391*		*"*	*0.0400*		*97.6*	*70-130*			
LCS (BFB0093-BS1)				Prepared: 02/09/22 Analyzed: 02/11/22						
Benzene	0.0714	0.0020	mg/kg	0.0750		95.2	70-130			
Toluene	0.0794	0.0050	"	0.0750		106	70-130			
Ethylbenzene	0.0783	0.0050	"	0.0750		104	70-130			
m,p-Xylene	0.159	0.010	"	0.150		106	70-130			
o-Xylene	0.0777	0.0050	"	0.0750		104	70-130			
1,2,4-Trimethylbenzene	0.0741	0.0050	"	0.0750		98.8	70-130			
1,3,5-Trimethylbenzene	0.0755	0.0050	"	0.0750		101	70-130			
Naphthalene	0.0779	0.0038	"	0.0750		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0403*		*"*	*0.0400*		*101*	*70-130*			
Surrogate: Toluene-d8	*0.0411*		*"*	*0.0400*		*103*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0411*		*"*	*0.0400*		*103*	*70-130*			
Matrix Spike (BFB0093-MS1)	**Source: 2202065-01**			Prepared: 02/09/22 Analyzed: 02/11/22						
Benzene	0.0717	0.0020	mg/kg	0.0750	ND	95.6	70-130			
Toluene	0.0768	0.0050	"	0.0750	ND	102	70-130			
Ethylbenzene	0.0734	0.0050	"	0.0750	ND	97.9	70-130			
m,p-Xylene	0.149	0.010	"	0.150	ND	99.1	70-130			
o-Xylene	0.0735	0.0050	"	0.0750	ND	98.0	70-130			
1,2,4-Trimethylbenzene	0.0716	0.0050	"	0.0750	ND	95.4	70-130			
1,3,5-Trimethylbenzene	0.0725	0.0050	"	0.0750	ND	96.6	70-130			
Naphthalene	0.0860	0.0038	"	0.0750	ND	115	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0412*		*"*	*0.0400*		*103*	*70-130*			
Surrogate: Toluene-d8	*0.0412*		*"*	*0.0400*		*103*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0408*		*"*	*0.0400*		*102*	*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.

S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Strohauer 32-22D Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 02/22/22 14:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BFB0093 - EPA 5030 Soil MS										
Matrix Spike Dup (BFB0093-MSD1)	**Source: 2202065-01**			Prepared: 02/09/22 Analyzed: 02/11/22						
Benzene	0.0625	0.0020	mg/kg	0.0750	ND	83.3	70-130	13.7	30	
Toluene	0.0677	0.0050	"	0.0750	ND	90.3	70-130	12.6	30	
Ethylbenzene	0.0680	0.0050	"	0.0750	ND	90.7	70-130	7.64	30	
m,p-Xylene	0.139	0.010	"	0.150	ND	92.4	70-130	7.04	30	
o-Xylene	0.0681	0.0050	"	0.0750	ND	90.8	70-130	7.63	30	
1,2,4-Trimethylbenzene	0.0668	0.0050	"	0.0750	ND	89.1	70-130	6.85	30	
1,3,5-Trimethylbenzene	0.0672	0.0050	"	0.0750	ND	89.6	70-130	7.52	30	
Naphthalene	0.0846	0.0038	"	0.0750	ND	113	70-130	1.62	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0367*		"	*0.0400*		*91.6*	*70-130*			
Surrogate: Toluene-d8	*0.0409*		"	*0.0400*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0392*		"	*0.0400*		*98.0*	*70-130*			

Summit Scientific

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S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Strohauer 32-22D Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 02/22/22 14:51

Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BFB0092 - EPA 3550A										
Blank (BFB0092-BLK1)				Prepared: 02/09/22 Analyzed: 02/10/22						
C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
LCS (BFB0092-BS1)				Prepared: 02/09/22 Analyzed: 02/10/22						
C10-C28 (DRO)	432	50	mg/kg	500		86.4	70-130			
Matrix Spike (BFB0092-MS1)	**Source: 2202065-01**			Prepared: 02/09/22 Analyzed: 02/10/22						
C10-C28 (DRO)	447	50	mg/kg	500	45.2	80.4	70-130			
Matrix Spike Dup (BFB0092-MSD1)	**Source: 2202065-01**			Prepared: 02/09/22 Analyzed: 02/10/22						
C10-C28 (DRO)	418	50	mg/kg	500	45.2	74.6	70-130	6.66	20	

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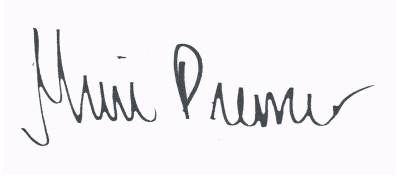
PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Strohauer 32-22D Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 02/22/22 14:51

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BFB0084 - EPA 5030 Soil MS										
Blank (BFB0084-BLK1)				Prepared & Analyzed: 02/09/22						
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	*0.0213*		*"*	*0.0333*		*63.8*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0211*		*"*	*0.0333*		*63.4*	*40-150*			
LCS (BFB0084-BS1)				Prepared & Analyzed: 02/09/22						
Acenaphthene	0.0176	0.00500	mg/kg	0.0333		52.9	31-137			
Anthracene	0.0188	0.00500	"	0.0333		56.4	30-120			
Benzo (a) anthracene	0.0210	0.00500	"	0.0333		63.0	30-120			
Benzo (a) pyrene	0.0200	0.00500	"	0.0333		60.1	30-120			
Benzo (b) fluoranthene	0.0214	0.00500	"	0.0333		64.2	30-120			
Benzo (k) fluoranthene	0.0239	0.00500	"	0.0333		71.8	30-120			
Chrysene	0.0218	0.00500	"	0.0333		65.3	30-120			
Dibenz (a,h) anthracene	0.0237	0.00500	"	0.0333		71.1	30-120			
Fluoranthene	0.0198	0.00500	"	0.0333		59.5	30-120			
Fluorene	0.0187	0.00500	"	0.0333		56.2	30-120			
Indeno (1,2,3-cd) pyrene	0.0289	0.00500	"	0.0333		86.7	30-120			
Pyrene	0.0234	0.00500	"	0.0333		70.3	35-142			
1-Methylnaphthalene	0.0135	0.00500	"	0.0333		40.4	35-142			
2-Methylnaphthalene	0.0192	0.00500	"	0.0333		57.6	35-142			
Surrogate: 2-Methylnaphthalene-d10	*0.0186*		*"*	*0.0333*		*55.9*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0201*		*"*	*0.0333*		*60.2*	*40-150*			



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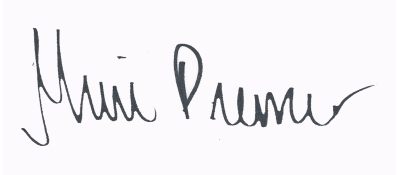
PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Strohauer 32-22D Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 02/22/22 14:51

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BFB0084 - EPA 5030 Soil MS										
Matrix Spike (BFB0084-MS1)	**Source: 2202064-01**			Prepared & Analyzed: 02/09/22						
Acenaphthene	0.0182	0.00500	mg/kg	0.0333	ND	54.6	31-137			
Anthracene	0.0205	0.00500	"	0.0333	ND	61.4	30-120			
Benzo (a) anthracene	0.0210	0.00500	"	0.0333	ND	63.1	30-120			
Benzo (a) pyrene	0.0220	0.00500	"	0.0333	ND	65.9	30-120			
Benzo (b) fluoranthene	0.0218	0.00500	"	0.0333	ND	65.5	30-120			
Benzo (k) fluoranthene	0.0239	0.00500	"	0.0333	ND	71.6	30-120			
Chrysene	0.0217	0.00500	"	0.0333	ND	65.0	30-120			
Dibenz (a,h) anthracene	0.0209	0.00500	"	0.0333	ND	62.7	30-120			
Fluoranthene	0.0205	0.00500	"	0.0333	ND	61.5	30-120			
Fluorene	0.0190	0.00500	"	0.0333	ND	57.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0258	0.00500	"	0.0333	ND	77.4	30-120			
Pyrene	0.0243	0.00500	"	0.0333	ND	72.8	35-142			
1-Methylnaphthalene	0.0171	0.00500	"	0.0333	ND	51.3	15-130			
2-Methylnaphthalene	0.0192	0.00500	"	0.0333	ND	57.5	15-130			
Surrogate: 2-Methylnaphthalene-d10	*0.0200*		*"*	*0.0333*		*60.1*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0212*		*"*	*0.0333*		*63.6*	*40-150*			
Matrix Spike Dup (BFB0084-MSD1)	**Source: 2202064-01**			Prepared & Analyzed: 02/09/22						
Acenaphthene	0.0193	0.00500	mg/kg	0.0333	ND	57.8	31-137	5.63	30	
Anthracene	0.0209	0.00500	"	0.0333	ND	62.6	30-120	2.00	30	
Benzo (a) anthracene	0.0216	0.00500	"	0.0333	ND	64.8	30-120	2.76	30	
Benzo (a) pyrene	0.0228	0.00500	"	0.0333	ND	68.5	30-120	3.77	30	
Benzo (b) fluoranthene	0.0228	0.00500	"	0.0333	ND	68.4	30-120	4.36	30	
Benzo (k) fluoranthene	0.0238	0.00500	"	0.0333	ND	71.4	30-120	0.190	30	
Chrysene	0.0218	0.00500	"	0.0333	ND	65.4	30-120	0.607	30	
Dibenz (a,h) anthracene	0.0232	0.00500	"	0.0333	ND	69.7	30-120	10.6	30	
Fluoranthene	0.0203	0.00500	"	0.0333	ND	61.0	30-120	0.812	30	
Fluorene	0.0200	0.00500	"	0.0333	ND	60.1	30-120	5.32	30	
Indeno (1,2,3-cd) pyrene	0.0271	0.00500	"	0.0333	ND	81.2	30-120	4.87	30	
Pyrene	0.0243	0.00500	"	0.0333	ND	72.9	35-142	0.107	30	
1-Methylnaphthalene	0.0197	0.00500	"	0.0333	ND	59.0	15-130	13.9	50	
2-Methylnaphthalene	0.0213	0.00500	"	0.0333	ND	63.9	15-130	10.6	50	
Surrogate: 2-Methylnaphthalene-d10	*0.0210*		*"*	*0.0333*		*63.0*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0217*		*"*	*0.0333*		*65.2*	*40-150*			



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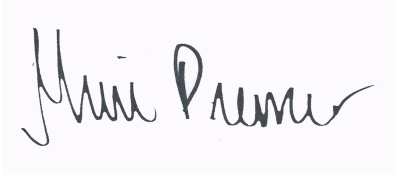
PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Strohauer 32-22D Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 02/22/22 14:51

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BFB0083 - General Preparation										
Duplicate (BFB0083-DUP1)		**Source: 2202064-01**		Prepared & Analyzed: 02/09/22						
% Solids	93.6		%		93.9			0.344	20	



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PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Strohauer 32-22D Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 02/22/22 14:51

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