TABLE 1
FORMER NOFFSINGER 31-33 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**
SS01 @ 3'	1/3/2023	3 ft. bgs	<0.0020	<0.0050	0.068	<0.010	**0.50**	**0.21**	**0.028**	16

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 NOFFSINGER 31-33 WELLHEAD
GROUNDWATER ANALYTICAL RESULTS SUMMARY TABLE
ORGANIC COMPOUNDS

Sample ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4-TMB (µg/L)	1,3,5-TMB (µg/L)	Depth to Water [2] (ft.)	Groundwater Elevation (ft. AMSL)
COGCC Table 915-1 Groundwater Standard (µg/L) [1]		**5**	**560**	**700**	**1,400**	**140**	**67**	**67**	**-**	**-**
GW01	1/3/2023	<1.0	12	6.2	86	3.8	33	14	4	NA

Notes:

1. Groundwater standards referenced from 2 CCR 404-1, Table 915-1, January 15, 2021.
2. Depth to water measurements were measured from ground surface for excavation samples. Monitoring well measurements were collected from top of casing and adjusted using survey data to reflect depth of water from ground surface.

TMB = Trimethylbenzene
COGCC = Colorado Oil and Gas Conservation Commission
µg/L = Micrograms per liter
(<) = Analytical result is less than the indicated laboratory reporting limit.
ft. = Feet
AMSL = Above Mean Sea Level
NA = Not applicable

TABLE 3
FORMER NOFFSINGER 31-33 WELLHEAD
FIELD DATA SUMMARY TABLE

Sample ID	Date Sampled	Depth	GPS Data [1] Latitude / Longitude		PDOP Value	VOC Concentration [2] (ppm)
WH01-N @ 0-6"	1/3/2023	0-6 in. bgs	40.448414	-104.552430	0.9	0.0
WH01-W @ 0-6"	1/3/2023	0-6 in. bgs	40.448328	-104.552486	0.8	0.0
WH01-S @ 0-6"	1/3/2023	0-6 in. bgs	40.448278	-104.552435	0.9	0.0
WH01-E @ 0-6"	1/3/2023	0-6 in. bgs	40.448322	-104.552341	0.8	0.0
SS01 @ 3'	1/3/2023	3 ft. bgs	40.448354	-104.552434	0.8	10.8
SS02 @ 3'	1/3/2023	3 ft. bgs	40.448370	-104.552422	0.8	0.0
SS03 @ 4'	1/3/2023	4 ft. bgs	40.448370	-104.552422	0.8	0.0
SS04 @ 4'	1/3/2023	4 ft. bgs	40.448349	-104.552416	0.8	0.0
SS05 @ 3'	1/3/2023	3 ft. bgs	40.448351	-104.552451	0.8	0.1
SS06 @ 4'	1/3/2023	4 ft. bgs	40.448351	-104.552451	0.8	0.0
SS07 @ 3'	1/3/2023	3 ft. bgs	40.448314	-104.552420	0.8	0.0
SS08 @ 4'	1/3/2023	4 ft. bgs	40.448314	-104.552420	0.8	0.0
SS09 @ 3'	1/3/2023	3 ft. bgs	40.448347	-104.552388	0.8	0.0
SS10 @ 4'	1/3/2023	4 ft. bgs	40.448347	-104.552388	0.8	0.0
SS11 @ 2.5'	1/3/2023	2.5 ft. bgs	40.448367	-104.552399	0.8	0.0
SS12 @ 2.5'	1/3/2023	2.5 ft. bgs	40.448318	-104.552458	0.8	0.0
BKG01 @ 2.5'	1/3/2023	2.5 ft. bgs	40.448259	-104.552607	0.8	0.0
BKG01 @ 3'	1/3/2023	3 ft. bgs	40.448259	-104.552607	0.8	0.0
BKG01 @ 4'	1/3/2023	4 ft. bgs	40.448259	-104.552607	0.8	0.0
BKG02 @ 2.5'	1/3/2023	2.5 ft. bgs	40.448165	-104.552473	0.7	0.0
BKG02 @ 3'	1/3/2023	3 ft. bgs	40.448165	-104.552473	0.7	0.0
BKG02 @ 4'	1/3/2023	4 ft. bgs	40.448165	-104.552473	0.7	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
bgs = Below ground surface
in. = Inches

Attachment A

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 04, 2023

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

RE: Noffsinger 31-33 Wellhead
Work Order #2301024

Enclosed are the results of analyses for samples received by Summit Scientific on 01/03/23 18:01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Paul Shrewsbury
President

S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Noffsinger 31-33 Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 01/04/23 06:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW01	2301024-01	Water	01/03/23 10:29	01/03/23 18:01
GW02	2301024-02	Water	01/03/23 11:17	01/03/23 18:01
SS01@3'	2301024-03	Soil	01/03/23 10:09	01/03/23 18:01

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.

230/024

Summit Scientific

S_2

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:	Naffsinger 31-33 wellhead
Sampler Name: Sam Anderson		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 ___	BTEXN - 8260B	TPH - (C6 - C36)	1,2,4 & 1,3,5-TMB	Boron - HWS	pH, EC, SAR	PAHs	Metals		pH, EC, SAR by saturated paste
1	GW01	1/3/23	1029	4	X				X				X		X						
2	GW02	↓	1117	3	↓				↓				X		X						
3	SS01e3'	↓	1009	3			X			X			X	X	X	X	X	X	X		
4																					
5																					
6																					
7																					
8																					
9																					
10	"																				

Relinquished by:	Date/Time: 1/3/23 1648	Received by: Tasman's Lock Box	Date/Time: 1/3/23 1648	**Turn Around Time** (Check): Same Day X; 24 hours ___; 48 hours ___; 72 hours ___; Standard ___
Relinquished by: Tasman's Lock Box	Date/Time: 1325 1801	Received by:	Date/Time: 1323 1801	**Sample Integrity:** Temperature Upon Receipt: 7.1; Samples Intact: (Yes) No
Relinquished by:	Date/Time:	Received by:	Date/Time:	

Notes:

S2

Sample Receipt Checklist

S2 Work Order# 2301024

Client: Pac Trasman Client Project ID: Noffsinger 31-33 Wellhead

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

[ ] [–] [ ] [ ] [ ]

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

Temp (°C) [7.1] Thermometer # [1]

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? (1) **NOTE:** If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	–			on ice
If custody seals are present, are they intact? (1)	–			
Are samples due within 48 hours present?	–			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			–	
Is a chain-of-custody (COC) form present and filled out Completely? (1)	–			
Is the COC properly relinquished by the client w/ date and time recorded? (1)	–			
Were all samples received intact? (1)	–			
Was adequate sample volume provided? (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)	–			
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, H_2SO_4, NaOH, HNO_3, etc.	–			HCl
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.				

Custodian Printed Name

1·3·23
Date/Time

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Noffsinger 31-33 Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 01/04/23 06:03

GW01

2301024-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/03/23 10:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BGA0028	01/03/23	01/03/23	EPA 8260B	
Toluene	**12**	1.0	"	"	"	"	"	"	
Ethylbenzene	**6.2**	1.0	"	"	"	"	"	"	
Xylenes (total)	**86**	2.0	"	"	"	"	"	"	
Naphthalene	**3.8**	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**33**	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**14**	1.0	"	"	"	"	"	"	

Date Sampled: **01/03/23 10:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	13.4	*101 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8	13.1	*98.0 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.3	*99.5 %*	*21-167*		"	"	"	"	

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Noffsinger 31-33 Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 01/04/23 06:03

GW02

2301024-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/03/23 11:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BGA0028	01/03/23	01/03/23	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **01/03/23 11:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	13.5	*101 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8	13.0	*97.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.1	*98.0 %*	*21-167*		"	"	"	"	

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Noffsinger 31-33 Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 01/04/23 06:03

SS01@3'

2301024-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/03/23 10:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGA0029	01/03/23	01/04/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.068**	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**0.50**	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**0.21**	0.0050	"	"	"	"	"	"	
Naphthalene	**0.028**	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	**16**	0.50	"	"	"	"	"	"	

Date Sampled: **01/03/23 10:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0332	*83.0 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8	0.0470	*117 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0611	*153 %*	*50-150*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/03/23 10:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGA0030	"	01/04/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/03/23 10:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	15.5	*124 %*	*30-150*		"	"	"	"	

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Noffsinger 31-33 Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 01/04/23 06:03

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 BGA0028 - EPA 5030 Water MS										
Blank (BGA0028-BLK1)				Prepared: 01/03/23 Analyzed: 01/04/23						
Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	*13.0*		*"*	*13.3*		*97.4*	*23-173*			
Surrogate: Toluene-d8	*13.2*		*"*	*13.3*		*99.2*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*13.4*		*"*	*13.3*		*100*	*21-167*			
LCS (BGA0028-BS1)				Prepared: 01/03/23 Analyzed: 01/04/23						
Benzene	38.8	1.0	ug/l	33.3		116	51-132			
Toluene	38.4	1.0	"	33.3		115	51-138			
Ethylbenzene	40.5	1.0	"	33.3		122	58-146			
m,p-Xylene	81.0	2.0	"	66.7		122	57-144			
o-Xylene	38.4	1.0	"	33.3		115	53-146			
Naphthalene	34.5	1.0	"	33.3		103	70-130			
1,2,4-Trimethylbenzene	34.0	1.0	"	33.3		102	70-130			
1,3,5-Trimethylbenzene	35.3	1.0	"	33.3		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	*13.4*		*"*	*13.3*		*100*	*23-173*			
Surrogate: Toluene-d8	*13.2*		*"*	*13.3*		*98.7*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*12.9*		*"*	*13.3*		*96.8*	*21-167*			
Matrix Spike (BGA0028-MS1)	**Source: 2301001-01**			Prepared: 01/03/23 Analyzed: 01/04/23						
Benzene	37.9	1.0	ug/l	33.3	ND	114	34-141			
Toluene	38.1	1.0	"	33.3	ND	114	27-151			
Ethylbenzene	40.8	1.0	"	33.3	ND	123	29-160			
m,p-Xylene	81.1	2.0	"	66.7	ND	122	20-166			
o-Xylene	38.7	1.0	"	33.3	ND	116	33-159			
Naphthalene	35.2	1.0	"	33.3	ND	106	70-130			
1,2,4-Trimethylbenzene	33.4	1.0	"	33.3	ND	100	70-130			
1,3,5-Trimethylbenzene	34.4	1.0	"	33.3	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	*13.2*		*"*	*13.3*		*99.4*	*23-173*			
Surrogate: Toluene-d8	*13.0*		*"*	*13.3*		*97.4*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*13.1*		*"*	*13.3*		*98.0*	*21-167*			

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	Project: Noffsinger 31-33 Wellhead	
1775 Sherman St. STE. 3000	Project Number: [none]	**Reported:**
Denver CO, 80203	Project Manager: Mark Longhurst	01/04/23 06:03

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 BGA0028 - EPA 5030 Water MS										
Matrix Spike Dup (BGA0028-MSD1)	**Source: 2301001-01**			Prepared: 01/03/23 Analyzed: 01/04/23						
Benzene	38.1	1.0	ug/l	33.3	ND	114	34-141	0.605	30	
Toluene	37.9	1.0	"	33.3	ND	114	27-151	0.474	30	
Ethylbenzene	40.2	1.0	"	33.3	ND	121	29-160	1.60	30	
m,p-Xylene	80.4	2.0	"	66.7	ND	121	20-166	0.941	30	
o-Xylene	38.6	1.0	"	33.3	ND	116	33-159	0.233	30	
Naphthalene	37.9	1.0	"	33.3	ND	114	70-130	7.52	30	
1,2,4-Trimethylbenzene	32.9	1.0	"	33.3	ND	98.7	70-130	1.54	30	
1,3,5-Trimethylbenzene	33.5	1.0	"	33.3	ND	100	70-130	2.60	30	
Surrogate: 1,2-Dichloroethane-d4	*14.1*		*"*	*13.3*		*106*	*23-173*			
Surrogate: Toluene-d8	*12.9*		*"*	*13.3*		*97.0*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*13.0*		*"*	*13.3*		*97.9*	*21-167*			
Batch BGA0029 - EPA 5030 Soil MS										
Blank (BGA0029-BLK1)				Prepared: 01/03/23 Analyzed: 01/04/23						
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0444*		*"*	*0.0400*		*111*	*50-150*			
Surrogate: Toluene-d8	*0.0380*		*"*	*0.0400*		*95.0*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0425*		*"*	*0.0400*		*106*	*50-150*			

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Noffsinger 31-33 Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 01/04/23 06:03

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 BGA0029 - EPA 5030 Soil MS										
LCS (BGA0029-BS1)				Prepared: 01/03/23 Analyzed: 01/04/23						
Benzene	0.100	0.0020	mg/kg	0.100		100	70-130			
Toluene	0.0995	0.0050	"	0.100		99.5	70-130			
Ethylbenzene	0.0975	0.0050	"	0.100		97.5	70-130			
m,p-Xylene	0.190	0.010	"	0.200		95.1	70-130			
o-Xylene	0.0915	0.0050	"	0.100		91.5	70-130			
1,2,4-Trimethylbenzene	0.0989	0.0050	"	0.100		98.9	70-130			
1,3,5-Trimethylbenzene	0.104	0.0050	"	0.100		104	70-130			
Naphthalene	0.0950	0.0038	"	0.100		95.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0351*		"	*0.0400*		*87.8*	*50-150*			
Surrogate: Toluene-d8	*0.0374*		"	*0.0400*		*93.4*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0404*		"	*0.0400*		*101*	*50-150*			
Matrix Spike (BGA0029-MS1)	**Source: 2301012-01**			Prepared: 01/03/23 Analyzed: 01/04/23						
Benzene	0.104	0.0020	mg/kg	0.100	ND	104	70-130			
Toluene	0.103	0.0050	"	0.100	ND	103	70-130			
Ethylbenzene	0.100	0.0050	"	0.100	ND	100	70-130			
m,p-Xylene	0.199	0.010	"	0.200	ND	99.5	70-130			
o-Xylene	0.0918	0.0050	"	0.100	ND	91.8	70-130			
1,2,4-Trimethylbenzene	0.100	0.0050	"	0.100	ND	100	70-130			
1,3,5-Trimethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130			
Naphthalene	0.101	0.0038	"	0.100	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0361*		"	*0.0400*		*90.2*	*50-150*			
Surrogate: Toluene-d8	*0.0371*		"	*0.0400*		*92.7*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0381*		"	*0.0400*		*95.3*	*50-150*			
Matrix Spike Dup (BGA0029-MSD1)	**Source: 2301012-01**			Prepared: 01/03/23 Analyzed: 01/04/23						
Benzene	0.105	0.0020	mg/kg	0.100	ND	105	70-130	0.631	30	
Toluene	0.104	0.0050	"	0.100	ND	104	70-130	0.406	30	
Ethylbenzene	0.100	0.0050	"	0.100	ND	100	70-130	0.180	30	
m,p-Xylene	0.199	0.010	"	0.200	ND	99.4	70-130	0.106	30	
o-Xylene	0.0937	0.0050	"	0.100	ND	93.7	70-130	2.01	30	
1,2,4-Trimethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130	1.10	30	
1,3,5-Trimethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130	0.677	30	
Naphthalene	0.105	0.0038	"	0.100	ND	105	70-130	4.32	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0357*		"	*0.0400*		*89.2*	*50-150*			
Surrogate: Toluene-d8	*0.0376*		"	*0.0400*		*94.0*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0391*		"	*0.0400*		*97.7*	*50-150*			

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Noffsinger 31-33 Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 01/04/23 06:03

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 BGA0030 - EPA 3550A										
Blank (BGA0030-BLK1)				Prepared: 01/03/23 Analyzed: 01/04/23						
C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	*15.8*		*"*	*12.5*		*126*	*30-150*			
LCS (BGA0030-BS1)				Prepared: 01/03/23 Analyzed: 01/04/23						
C10-C28 (DRO)	510	50	mg/kg	500		102	70-130			
Surrogate: o-Terphenyl	*17.0*		*"*	*12.5*		*136*	*30-150*			
Matrix Spike (BGA0030-MS1)	**Source: 2301012-01**			Prepared: 01/03/23 Analyzed: 01/04/23						
C10-C28 (DRO)	488	50	mg/kg	500	14.8	94.7	70-130			
Surrogate: o-Terphenyl	*15.8*		*"*	*12.5*		*126*	*30-150*			
Matrix Spike Dup (BGA0030-MSD1)	**Source: 2301012-01**			Prepared: 01/03/23 Analyzed: 01/04/23						
C10-C28 (DRO)	487	50	mg/kg	500	14.8	94.4	70-130	0.279	20	
Surrogate: o-Terphenyl	*16.4*		*"*	*12.5*		*131*	*30-150*			

S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Noffsinger 31-33 Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 01/04/23 06:03

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
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