Analytical Results
Former Duke J 4-33 Tank Battery

TABLE 1
FORMER DUKE J 4-33 TANK BATTERY
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**
SEP01-DL-B @ 4'	12/3/2021	4 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50
SEP01-DL-N @ 2.5'	12/3/2021	2.5 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50
SEP01-FL @ 4'	12/3/2021	4 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50
AST01 @ 4'	12/3/2021	4 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50
AST02 @ 4'	12/3/2021	4 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50
AST03 @ 4'	12/3/2021	4 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50
AST04 @ 4'	12/3/2021	4 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50
AST05 @ 4'	12/3/2021	4 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50
AST06 @ 4'	12/3/2021	4 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 extractable petroleum hydrocarbons - oil range organics
mg/kg = Milligrams per kilogram
TMB = Trimethylbenzene
ft. = Feet
bgs = Below ground surface

TABLE 2
FORMER DUKE J 4-33 TANK BATTERY
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**
SEP01-DL-B @ 4'	12/3/2021	4 ft. bgs	7.89	0.623	0.777	0.0632
SEP01-DL-N @ 2.5'	12/3/2021	2.5 ft. bgs	7.96	0.467	0.314	<0.0100

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

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

EC = Electrical conductivity

SAR = Sodium adsorption ratio

mmhos/cm = Millimhos per centimeter

mg/L = Milligrams per liter

ft. = Feet

bgs = Below ground surface

TABLE 3
FORMER DUKE J 4-33 TANK BATTERY
FIELD DATA SUMMARY TABLE

Sample ID	Date Sampled	Depth	GPS Data [1] Latitude / Longitude		PDOP Value	VOC Concentration [2] (ppm)
SEP-01-DL-B @ 4'	12/3/2021	4 ft. bgs	40.425686	-104.792249	1.1	1.5
SEP01-DL-N @ 2.5'	12/3/2021	2.5 ft. bgs	40.425707	-104.792245	1.2	0.0
SEP01-DL-W @ 2.5'	12/3/2021	2.5 ft. bgs	40.425710	-104.792281	1.2	0.0
SEP01-DL-S @ 2.5'	12/3/2021	2.5 ft. bgs	40.425693	-104.792266	1.2	0.0
SEP01-DL-E @ 2.5'	12/3/2021	2.5 ft. bgs	40.425679	-104.792242	1.2	0.0
SEP01-FL @ 4'	12/3/2021	4 ft. bgs	40.425679	-104.792192	1.1	0.0
AST01 @ 4'	12/3/2021	4 ft. bgs	40.425982	-104.791963	1.1	8.8
AST02 @ 4'	12/3/2021	4 ft. bgs	40.426033	-104.791949	1.2	0.7
AST03 @ 4'	12/3/2021	4 ft. bgs	40.426026	-104.791895	1.2	0.1
AST04 @ 4'	12/3/2021	4 ft. bgs	40.425957	-104.791895	1.2	0.1
AST05 @ 4'	12/3/2021	4 ft. bgs	40.425915	-104.791901	1.2	0.0
AST06 @ 4'	12/3/2021	4 ft. bgs	40.425925	-104.791947	1.2	0.0
BKG01 @ 2.5'	12/3/2021	2.5 ft. bgs	40.425798	-104.791970	1.0	1.1
BKG01 @ 4'	12/3/2021	4 ft. bgs	40.425798	-104.791970	1.0	1.3
MH01 @ 0-6"	12/3/2021	0-6 in. bgs	40.425753	-104.792115	1.1	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).
3. Sample included for reference only, sample collected during associated tank battery decommissioning.

PDOP = Position Dilution of Precision
ppm = Parts per million
ft. = Feet
in. = Inches
bgs = Below ground surface

ATTACHMENT A

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

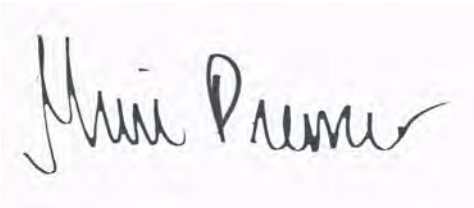
December 27, 2021

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

RE: Duke J 4-33 Tank Battery
Work Order #2112066

Enclosed are the results of analyses for samples received by Summit Scientific on 12/03/21 15:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Muri Premer For Paul Shrewsbury
President

S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Duke J 4-33 Tank Battery Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 12/27/21 18:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP01-DL-B@4'	2112066-01	Soil	12/03/21 11:00	12/03/21 15:30
SEP01-DL-N@2.5'	2112066-02	Soil	12/03/21 11:02	12/03/21 15:30
SEP01-FL@4'	2112066-06	Soil	12/03/21 11:10	12/03/21 15:30
AST01@4'	2112066-09	Soil	12/03/21 13:30	12/03/21 15:30
AST02@4'	2112066-10	Soil	12/03/21 13:32	12/03/21 15:30
AST03@4'	2112066-11	Soil	12/03/21 13:34	12/03/21 15:30
AST04@4'	2112066-12	Soil	12/03/21 13:36	12/03/21 15:30
AST05@4'	2112066-13	Soil	12/03/21 13:38	12/03/21 15:30
AST06@4'	2112066-14	Soil	12/03/21 13:40	12/03/21 15:30

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

2112066.1

S₂

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

Client: PDC / Tasman
Address: 6855 W 119th Ave
City/State/Zip: Broomfield/ CO/ 80020
Phone: 303-487-1228
Sampler Name: M. Wright

Project Manager: Mark Longhurst
E-Mail: mark.longhurst@PDCE.com
Project Name: DVRE J 4-33 Tank Battery
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-915			pH, EC, SAR by saturated paste PAHs
1	SEP01-DL-B @ 4'	12/3/21	1100	3			X			X			X	X	X	X	X	X	MW		
2	SEP01-DL-N @ 2.5'		1102	3			X			X			X	X	X	X	X	X	MW		
3	SEP01-DL-W @ 2.5		1104	3			X			X											X
4	SEP01-DL-S @ 2.5		1106	3			X			X											X
5	SEP01-DL-E @ 2.5		1108	3			X			X											X
6	SEP01-FL @ 4'		1110	3			X			X			X	X	X						
7	BLG01 @ 4'		1235	1			X			X											X
8	BLG01 @ 2.5		1230	1			X			X											X
9	AST01 @ 4'		1330	3			X			X			X	X	X						
10	AST02 @ 4'	✓	1332	3			X			X			X	X	X						

Relinquished by:	Date/Time:	Received by:	Date/Time:
Mariya W.	12-3-21 0:30pm	Tasman's Lock Box	
Relinquished by: Tasman's Lock Box	Date/Time: 12-3-21 3:30 pm	Received by:	Date/Time: 12321 1530
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: 11.1
Samples Intact: (Yes) No

Notes:

Summit Scientific 2112066.2

S_2

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

Client: PDC / Tasman
Address: 6855 W 119th Ave
City/State/Zip: Broomfield/ CO/ 80020
Phone: 303-487-1228
Sampler Name: Mathya W.

Project Manager: Mark Longhurst
E-Mail: mark.longhurst@PDCE.com
Project Name: DUKE J 4-33 TANK BATTERY
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 - 915			pH, EC, SAR by saturated paste
1	AST03 @ 4'	12-3-21	1334	3			X			X			X	X	X						
2	AST04 @ 4'		1336	3			X			X			X	X	X						
3	AST05 @ 4'		1338	3			X			X			X	X	X						
4	AST06 @ 4'	↓	1340	3			X			X			X	X	X						
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by:	Date/Time:	Received by:	Date/Time:
Mathya W.	12-3-21 @ 3:30pm	Tasman's Lock Box	
Relinquished by: Tasman's Lock Box	Date/Time:	Received by:	Date/Time: 12 3 21 1530
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: 11.1
Samples Intact: (Yes) No

Notes:

S2

2|2

2112066

Sample Receipt Checklist

S2 Work Order#_____

Client: Poc/Tasman Client Project ID: Duke 04-33 Tank Battery

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

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

Temp (°C)	11.1

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.**

Custodian Printed Name or Initials

12-3-21

Date/Time

S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Duke J 4-33 Tank Battery Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 12/27/21 18:12

SEP01-DL-B@4'
2112066-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/03/21 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEL0172	12/08/21	12/09/21	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: **12/03/21 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*113 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*108 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*114 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

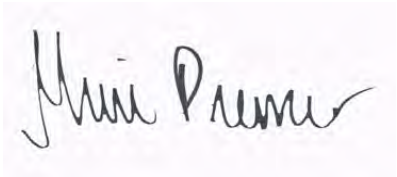
Date Sampled: **12/03/21 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEL0171	12/08/21	12/09/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/03/21 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*83.0 %*	*30-150*		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction



S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Duke J 4-33 Tank Battery Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 12/27/21 18:12

SEP01-DL-B@4'

2112066-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/03/21 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	**0.0632**	0.0100	mg/L	1	BEL0168	12/08/21	12/14/21	EPA 6020B	

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

Date Sampled: **12/03/21 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**57.2**	0.0566	mg/L dry	1	BEL0191	12/09/21	12/15/21	EPA 6020B	
Magnesium	**20.9**	0.0566	"	"	"	"	"	"	
Sodium	**27.0**	0.0566	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/03/21 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.777**	0.00100	units	1	BEL0354	12/15/21	12/15/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/03/21 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**88.3**		%	1	BEL0328	12/15/21	12/15/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/03/21 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.623**	0.0100	mmhos/cm	1	BEL0238	12/10/21	12/10/21	EPA 120.1	

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

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: Duke J 4-33 Tank Battery Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 12/27/21 18:12

SEP01-DL-B@4'

2112066-01 (Soil)

Summit Scientific

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

Date Sampled: **12/03/21 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**7.89**		pH Units	1	BEL0239	12/10/21	12/10/21	EPA 9045D	

S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Duke J 4-33 Tank Battery Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 12/27/21 18:12

SEP01-DL-N@2.5'

2112066-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/03/21 11:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEL0172	12/08/21	12/09/21	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: **12/03/21 11:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*113 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*111 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*112 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

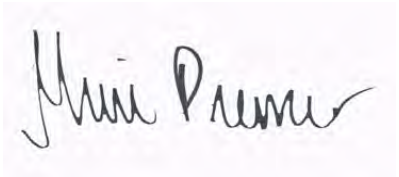
Date Sampled: **12/03/21 11:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEL0171	12/08/21	12/09/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/03/21 11:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*68.0 %*	*30-150*		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction



S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Duke J 4-33 Tank Battery Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 12/27/21 18:12

SEP01-DL-N@2.5'

2112066-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/03/21 11:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BEL0168	12/08/21	12/14/21	EPA 6020B	

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

Date Sampled: **12/03/21 11:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**43.6**	0.0537	mg/L dry	1	BEL0191	12/09/21	12/15/21	EPA 6020B	
Magnesium	**12.9**	0.0537	"	"	"	"	"	"	
Sodium	**9.19**	0.0537	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/03/21 11:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.314**	0.00100	units	1	BEL0354	12/15/21	12/15/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/03/21 11:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**93.0**		%	1	BEL0328	12/15/21	12/15/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/03/21 11:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.467**	0.0100	mmhos/cm	1	BEL0238	12/10/21	12/10/21	EPA 120.1	

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

Summit Scientific

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S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Duke J 4-33 Tank Battery Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 12/27/21 18:12

SEP01-DL-N@2.5'

2112066-02 (Soil)

Summit Scientific

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

Date Sampled: **12/03/21 11:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**7.96**		pH Units	1	BEL0239	12/10/21	12/10/21	EPA 9045D	

S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Duke J 4-33 Tank Battery Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 12/27/21 18:12

SEP01-FL@4'

2112066-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/03/21 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEL0172	12/08/21	12/23/21	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: **12/03/21 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*94.2 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.1 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

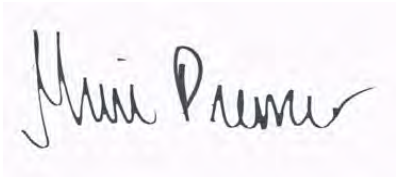
Date Sampled: **12/03/21 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEL0171	12/08/21	12/09/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/03/21 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*61.2 %*	*30-150*		"	"	"	"	

Summit Scientific



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S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Duke J 4-33 Tank Battery Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 12/27/21 18:12

AST01@4'

2112066-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/03/21 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEL0172	12/08/21	12/09/21	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: **12/03/21 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*116 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*111 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*115 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/03/21 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEL0171	12/08/21	12/09/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/03/21 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*57.2 %*	*30-150*		"	"	"	"	

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S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Duke J 4-33 Tank Battery Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 12/27/21 18:12

AST02@4'

2112066-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/03/21 13:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEL0172	12/08/21	12/09/21	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: **12/03/21 13:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*114 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*107 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*112 %*	*21-167*		"	"	"	"	

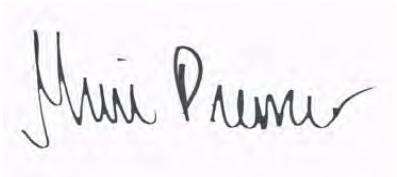
Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/03/21 13:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEL0171	12/08/21	12/09/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/03/21 13:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*83.4 %*	*30-150*		"	"	"	"	



S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Duke J 4-33 Tank Battery Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 12/27/21 18:12

AST03@4'

2112066-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/03/21 13:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEL0172	12/08/21	12/09/21	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: **12/03/21 13:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*117 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*108 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*112 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/03/21 13:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEL0171	12/08/21	12/09/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/03/21 13:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*98.4 %*	*30-150*		"	"	"	"	

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S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Duke J 4-33 Tank Battery Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 12/27/21 18:12

AST04@4'

2112066-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/03/21 13:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEL0172	12/08/21	12/09/21	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: **12/03/21 13:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*111 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*107 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*115 %*	*21-167*		"	"	"	"	

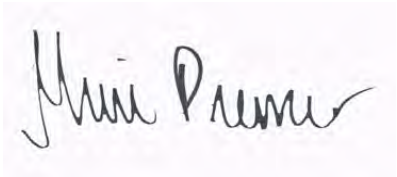
Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/03/21 13:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEL0171	12/08/21	12/09/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/03/21 13:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*64.2 %*	*30-150*		"	"	"	"	



S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Duke J 4-33 Tank Battery Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 12/27/21 18:12

AST05@4'

2112066-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/03/21 13:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEL0172	12/08/21	12/09/21	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: **12/03/21 13:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*112 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*107 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*112 %*	*21-167*		"	"	"	"	

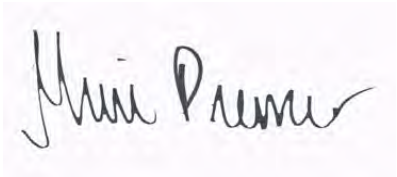
Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/03/21 13:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEL0171	12/08/21	12/09/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/03/21 13:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*90.2 %*	*30-150*		"	"	"	"	



S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Duke J 4-33 Tank Battery Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 12/27/21 18:12

AST06@4'

2112066-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/03/21 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEL0172	12/08/21	12/09/21	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: **12/03/21 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*113 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*110 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*115 %*	*21-167*		"	"	"	"	

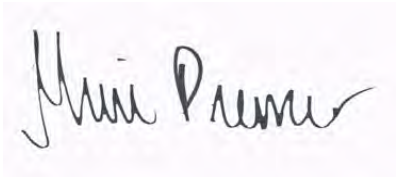
Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/03/21 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEL0171	12/08/21	12/09/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/03/21 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*69.7 %*	*30-150*		"	"	"	"	



S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Duke J 4-33 Tank Battery Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 12/27/21 18:12

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 BEL0172 - EPA 5030 Soil MS										
Blank (BEL0172-BLK1)				Prepared: 12/08/21 Analyzed: 12/09/21						
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	*0.0459*		*"*	*0.0400*		*115*	*23-173*			
Surrogate: Toluene-d8	*0.0434*		*"*	*0.0400*		*108*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0446*		*"*	*0.0400*		*111*	*21-167*			
LCS (BEL0172-BS1)				Prepared: 12/08/21 Analyzed: 12/09/21						
Benzene	0.0744	0.0020	mg/kg	0.100		74.4	70-130			
Toluene	0.0743	0.0050	"	0.100		74.3	70-130			
Ethylbenzene	0.0956	0.0050	"	0.100		95.6	70-130			
m,p-Xylene	0.190	0.010	"	0.200		95.1	70-130			
o-Xylene	0.0985	0.0050	"	0.100		98.5	70-130			
1,2,4-Trimethylbenzene	0.0727	0.0050	"	0.100		72.7	70-130			
1,3,5-Trimethylbenzene	0.0717	0.0050	"	0.100		71.7	70-130			
Naphthalene	0.0978	0.0038	"	0.100		97.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0457*		*"*	*0.0400*		*114*	*23-173*			
Surrogate: Toluene-d8	*0.0447*		*"*	*0.0400*		*112*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0430*		*"*	*0.0400*		*108*	*21-167*			
Matrix Spike (BEL0172-MS1)		**Source: 2112066-01**		Prepared: 12/08/21 Analyzed: 12/09/21						
Benzene	0.112	0.0020	mg/kg	0.100	ND	112	70-130			
Toluene	0.105	0.0050	"	0.100	ND	105	70-130			
Ethylbenzene	0.0939	0.0050	"	0.100	ND	93.9	70-130			
m,p-Xylene	0.183	0.010	"	0.200	ND	91.5	70-130			
o-Xylene	0.0972	0.0050	"	0.100	ND	97.2	70-130			
1,2,4-Trimethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130			
1,3,5-Trimethylbenzene	0.0998	0.0050	"	0.100	ND	99.8	70-130			
Naphthalene	0.105	0.0038	"	0.100	ND	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0434*		*"*	*0.0400*		*109*	*23-173*			
Surrogate: Toluene-d8	*0.0435*		*"*	*0.0400*		*109*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0416*		*"*	*0.0400*		*104*	*21-167*			

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S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Duke J 4-33 Tank Battery Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 12/27/21 18:12

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 BEL0172 - EPA 5030 Soil MS										
Matrix Spike Dup (BEL0172-MSD1)	**Source: 2112066-01**			Prepared: 12/08/21 Analyzed: 12/09/21						
Benzene	0.128	0.0020	mg/kg	0.100	ND	128	70-130	14.0	30	
Toluene	0.121	0.0050	"	0.100	ND	121	70-130	13.7	30	
Ethylbenzene	0.108	0.0050	"	0.100	ND	108	70-130	13.5	30	
m,p-Xylene	0.212	0.010	"	0.200	ND	106	70-130	14.8	30	
o-Xylene	0.113	0.0050	"	0.100	ND	113	70-130	15.0	30	
1,2,4-Trimethylbenzene	0.122	0.0050	"	0.100	ND	122	70-130	16.3	30	
1,3,5-Trimethylbenzene	0.116	0.0050	"	0.100	ND	116	70-130	15.4	30	
Naphthalene	0.121	0.0038	"	0.100	ND	121	70-130	14.7	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0446*		*"*	*0.0400*		*111*	*23-173*			
Surrogate: Toluene-d8	*0.0442*		*"*	*0.0400*		*111*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0432*		*"*	*0.0400*		*108*	*21-167*			

Summit Scientific

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S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Duke J 4-33 Tank Battery Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 12/27/21 18:12

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 BEL0171 - EPA 3550A										
Blank (BEL0171-BLK1)				Prepared: 12/08/21 Analyzed: 12/09/21						
C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
LCS (BEL0171-BS1)				Prepared: 12/08/21 Analyzed: 12/09/21						
C10-C28 (DRO)	440	50	mg/kg	500		88.0	70-130			
Matrix Spike (BEL0171-MS1)	**Source: 2112066-01**			Prepared: 12/08/21 Analyzed: 12/09/21						
C10-C28 (DRO)	436	50	mg/kg	500	42.4	78.6	70-130			
Matrix Spike Dup (BEL0171-MSD1)	**Source: 2112066-01**			Prepared: 12/08/21 Analyzed: 12/09/21						
C10-C28 (DRO)	411	50	mg/kg	500	42.4	73.8	70-130	5.77	20	

S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Duke J 4-33 Tank Battery Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 12/27/21 18:12

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEL0168 - EPA 3050B										
Blank (BEL0168-BLK1)				Prepared: 12/08/21 Analyzed: 12/14/21						
Boron	ND	0.0100	mg/L							
LCS (BEL0168-BS1)				Prepared: 12/08/21 Analyzed: 12/14/21						
Boron	5.10	0.0100	mg/L	5.00		102	80-120			
Duplicate (BEL0168-DUP1)	**Source: 2112027-01**			Prepared: 12/08/21 Analyzed: 12/14/21						
Boron	ND	0.0100	mg/L		ND				20	
Matrix Spike (BEL0168-MS1)	**Source: 2112027-01**			Prepared: 12/08/21 Analyzed: 12/14/21						
Boron	5.40	0.0100	mg/L	5.00	ND	108	75-125			
Matrix Spike Dup (BEL0168-MSD1)	**Source: 2112027-01**			Prepared: 12/08/21 Analyzed: 12/14/21						
Boron	5.39	0.0100	mg/L	5.00	ND	108	75-125	0.156	25	

S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Duke J 4-33 Tank Battery Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 12/27/21 18:12

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEL0191 - General Preparation										
Blank (BEL0191-BLK1)				Prepared: 12/09/21 Analyzed: 12/15/21						
Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							
LCS (BEL0191-BS1)				Prepared: 12/09/21 Analyzed: 12/15/21						
Calcium	5.26	0.0500	mg/L wet	5.00		105	70-130			
Magnesium	5.19	0.0500	"	5.00		104	70-130			
Sodium	4.74	0.0500	"	5.00		94.9	70-130			

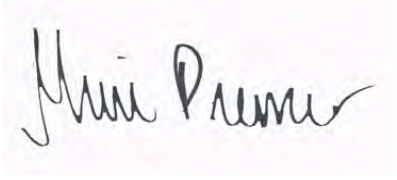
S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Duke J 4-33 Tank Battery Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 12/27/21 18:12

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 BEL0328 - General Preparation										
Duplicate (BEL0328-DUP1)	**Source: 2112061-01**			Prepared & Analyzed: 12/15/21						
% Solids	90.1		%		90.5			0.401	20	



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PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Duke J 4-33 Tank Battery Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 12/27/21 18:12

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEL0238 - General Preparation										
Blank (BEL0238-BLK1)				Prepared & Analyzed: 12/10/21						
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
LCS (BEL0238-BS1)				Prepared & Analyzed: 12/10/21						
Specific Conductance (EC)	0.147	0.0100	mmhos/cm	0.150		97.9	95-105			
Duplicate (BEL0238-DUP1)		**Source: 2112066-01**		Prepared & Analyzed: 12/10/21						
Specific Conductance (EC)	0.624	0.0100	mmhos/cm		0.623			0.176	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.

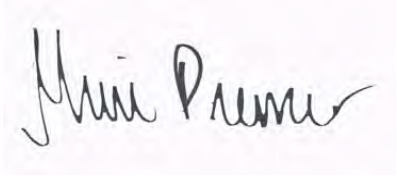
S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Duke J 4-33 Tank Battery Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 12/27/21 18:12

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEL0239 - General Preparation										
LCS (BEL0239-BS1)				Prepared & Analyzed: 12/10/21						
pH	9.06		pH Units	9.18		98.7	95-105			
Duplicate (BEL0239-DUP1)		**Source: 2112066-01**		Prepared & Analyzed: 12/10/21						
pH	7.93		pH Units		7.89			0.506	20	



S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: Duke J 4-33 Tank Battery Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 12/27/21 18:12

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