

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 26, 2021

Brent Hedstrom

Crestone Peak Resources

2020 E. Grand Avenue, Suite 515

Laramie, WY 82070

RE: FILE 3K-32H

Work Order #2107148

Enclosed are the results of analyses for samples received by Summit Scientific on 07/12/21 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Muri Premier For Paul Shrewsbury
President



Crestone Peak Resources
2020 E. Grand Avenue, Suite 515
Laramie WY, 82070

Project: FILE 3K-32H
Project Number: [none]
Project Manager: Brent Hedstrom

Reported:
07/26/21 11:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Surface Casing	2107148-01	Water	07/08/21 11:52	07/12/21 17:00

Summit Scientific

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S₂

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

2107148

Page 1 of 1

Client: Crestone Peak Resources

Project Manager: Brent Hedstrom

Address: 10188 East I-25 Frontage road

E-Mail: brent.hedstrom@crestonepr.com

City/State/Zip: Firestone, CO 80504

COGCC 434287 LOE C82220 8503

Phone: 303-434-3007

Project Name: File 3K-32H

Sampler Name:

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	Anion	Cations	TDS	BTEX 8020	DRO	GRO	RSK-175		
1	Surface Casing	7/8/2021	11:52	2									X	X	X	X	X	X	X		
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time (Check)	Notes:
BL	7-12-21 930	[Signature]	7/12/21 1700	Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	48 hours <input type="checkbox"/>	
				Sample Integrity:	
				Temperature Upon Receipt:	12
				Samples Intact:	Yes No

Sample Receipt Checklist

S2 Work Order

2107148

Client: Crestone

Client Project ID:

File 3k-32H

Shipped Via: ☒ H.D./P.U./FedEx/UPS/USPS/Other

Airbill #:

☒ ☐ ☐ ☐ ☐

Matrix (check all that apply):

☐ Air

☐ Soil/Solid

☐ Water

☒ Other:

Surface Casing

(Describe)

Temp (°C)

12

Thermometer ID: 61857155-K

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

Additional Comments (if any):

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

JB

Custodian Printed Name or Initials

John Brown
Signature of Custodian

7/12/21

Date/Time



Crestone Peak Resources
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Project: FILE 3K-32H
Project Number: [none]
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07/26/21 11:21

Surface Casing
2107148-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/08/21 11:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	9400	1000	ug/l	1000	BEG0266	07/15/21	07/16/21	EPA 8260B	
Toluene	58000	1000	"	"	"	"	"	"	
Ethylbenzene	20000	1000	"	"	"	"	"	"	
Xylenes (total)	160000	2000	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	53000000	500000	"	"	"	"	"	"	

Date Sampled: **07/08/21 11:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	88.5 %	23-173	"	"	"	"	"	"	
Surrogate: Toluene-d8	105 %	20-170	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	145 %	21-167	"	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/08/21 11:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	980000	5.0	mg/L	1	BEG0222	07/13/21	07/16/21	EPA 8015M	

Date Sampled: **07/08/21 11:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	978 %	58.9-148	"	"	"	"	"	"	S-02

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Project Manager: Brent Hedstrom

Reported:
07/26/21 11:21

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 BEG0266 - EPA 5030 Water MS

Blank (BEG0266-BLK1)

Prepared & Analyzed: 07/15/21

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Gasoline Range Hydrocarbons	ND	500	"							
Surrogate: 1,2-Dichloroethane-d4	9.63		"	13.3		72.2	23-173			
Surrogate: Toluene-d8	17.3		"	13.3		129	20-170			
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3		102	21-167			

LCS (BEG0266-BS1)

Prepared: 07/15/21 Analyzed: 07/16/21

Benzene	26.2	1.0	ug/l	33.3		78.5	70-130			
Toluene	29.4	1.0	"	33.3		88.3	70-130			
Ethylbenzene	30.7	1.0	"	33.3		92.2	70-130			
m,p-Xylene	59.1	2.0	"	66.7		88.7	70-130			
o-Xylene	29.2	1.0	"	33.3		87.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	6.27		"	13.3		47.0	23-173			
Surrogate: Toluene-d8	14.9		"	13.3		112	20-170			
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3		93.3	21-167			

LCS Dup (BEG0266-BSD1)

Prepared: 07/15/21 Analyzed: 07/16/21

Benzene	26.1	1.0	ug/l	33.3		78.4	70-130	0.191	20	
Toluene	30.3	1.0	"	33.3		90.8	70-130	2.88	20	
Ethylbenzene	31.6	1.0	"	33.3		94.8	70-130	2.86	20	
m,p-Xylene	60.9	2.0	"	66.7		91.4	70-130	2.98	20	
o-Xylene	30.0	1.0	"	33.3		90.1	70-130	2.77	20	
Surrogate: 1,2-Dichloroethane-d4	7.20		"	13.3		54.0	23-173			
Surrogate: Toluene-d8	14.5		"	13.3		109	20-170			
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.4	21-167			

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Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BEG0222 - EPA 3520B

Blank (BEG0222-BLK1)

Prepared: 07/13/21 Analyzed: 07/15/21

C10-C28 (DRO) ND 5.0 mg/L

LCS (BEG0222-BS1)

Prepared: 07/13/21 Analyzed: 07/15/21

C10-C28 (DRO) 48.0 5.0 mg/L 50.0 95.9 70-130

LCS Dup (BEG0222-BS1)

Prepared: 07/13/21 Analyzed: 07/15/21

C10-C28 (DRO) 47.2 5.0 mg/L 50.0 94.3 70-130 1.67 20

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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