

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 that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer 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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2107148

Summit Scientific

S₂

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

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:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions		
					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: <i>BL</i>	Date/Time: 7-12-21 930	Received by: <i>[Signature]</i>	Date/Time: 7/12/21 1700	Turn Around Time (Check) Same Day ___ 72 hours ___ 24 hours ___ Standard <u>X</u> 48 hours ___ Sample Integrity: Temperature Upon Receipt: <u>12</u> Samples Intact: <u>Yes</u> No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

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
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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.	✓			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, ect			✓	
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.

JB

 Custodian Printed Name or Initials

Julie Brun

 Signature of Custodian

7/12/21

 Date/Time



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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 Number: [none]
Project Manager: Brent Hedstrom

Reported:
07/26/21 11:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

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	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	9.63		"	13.3		72.2		23-173			
<i>Surrogate: Toluene-d8</i>	17.3		"	13.3		129		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	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			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	6.27		"	13.3		47.0		23-173			
<i>Surrogate: Toluene-d8</i>	14.9		"	13.3		112		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	7.20		"	13.3		54.0		23-173			
<i>Surrogate: Toluene-d8</i>	14.5		"	13.3		109		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	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-BSD1)

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