

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

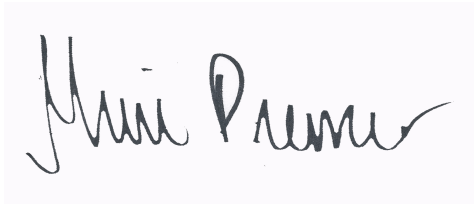
303.277.9310

August 11, 2020

Brent Hedstrom  
Crestone Peak Resources  
2020 E. Grand Avenue, Suite 515  
Laramie, WY 82070  
RE: FILE 3Q-32H  
Work Order #2007307

Enclosed are the results of analyses for samples received by Summit Scientific on 07/30/20 12:00. 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 3Q-32H  
Project Number: [none]  
Project Manager: Brent Hedstrom

**Reported:**  
08/11/20 17:30

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FILE 3Q-32H	2007307-01	Water	07/21/20 00:00	07/30/20 12:00

Summit Scientific

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# Summit Scientific

2007307

S<sub>2</sub>

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

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

LOE C82226

Phone: 303-434-3007

Project Name: FILE 3Q-32H

COGCC 434244

Sampler Name:

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	Anion	Cations	TDS	BTEX 8020	DRO	GRO	RSK-175		
1	FILE 3Q-32H	7/21/2020		11					X					X	X	X	X	X	X	X	
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by:	Date/Time: 12:00	Received by:	Date/Time: 07-30-20 12:00	<b>Turn Around Time</b> (Check) Same Day — 72 hours — 24 hours — Standard X 48 hours — <b>Sample Integrity:</b> Temperature Upon Receipt: 11.0 Samples Intact: Yes No	<b>Notes:</b>  ON ICE
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

2007307

## Sample Receipt Checklist

S2 Work Order \_\_\_\_\_

Client: Crestone Peak Resources Client Project ID: File 3Q-32HShipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: \_\_\_\_\_
☒ ☐ ☐ ☐ ☐
Matrix (check all that apply): ☐ Air ☐ Soil/Solid ☒ Water ☐ Other: \_\_\_\_\_  
(Describe)

Temp (°C)	11.6
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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 <sup>(1)</sup> ? 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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact <sup>(1)</sup> ?	<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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	anions
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	<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 checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ? Record the pH in Comments.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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):

HNO3 preserved bottle not at less than 2

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

MP

Custodian Printed Name or Initials



Signature of Custodian

7/30/20

Date/Time



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

Project: FILE 3Q-32H

Project Number: [none]  
Project Manager: Brent Hedstrom

**Reported:**  
08/11/20 17:30

**FILE 3Q-32H**  
**2007307-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **07/21/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>16000</b>	1000	ug/l	1000	2008002	08/03/20	08/05/20	EPA 8260B	
<b>Toluene</b>	<b>100000</b>	1000	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>34000</b>	1000	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>320000</b>	2000	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>21000000</b>	500000	"	"	"	"	"	"	

Date Sampled: **07/21/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		140 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		219 %	21-167		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **07/21/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>1000000</b>	500	mg/L	100	2008003	08/03/20	08/04/20	EPA 8015M	

Date Sampled: **07/21/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		23200 %	58.9-148		"	"	"	"	S-02

**Dissolved Gases by RSK-175**

Date Sampled: **07/21/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Methane</b>	<b>2.0</b>	1.0	mg/L	100	2008073	08/03/20	08/11/20	RSK-175 mod	
<b>Ethane</b>	<b>1.8</b>	0.10	"	10	"	"	"	"	
<b>Propane</b>	<b>0.84</b>	0.10	"	"	"	"	"	"	

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Project: FILE 3Q-32H

Project Number: [none]

Project Manager: Brent Hedstrom

**Reported:**  
08/11/20 17:30

**FILE 3Q-32H**  
**2007307-01 (Water)**

**Summit Scientific**

**Dissolved Gases by RSK-175**

Date Sampled: **07/21/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Ethene		54.9 %	70-130		2008073	08/03/20	08/11/20	RSK-175 mod	S-06

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

**Reported:**  
08/11/20 17:30

## 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 2008002 - EPA 5030 Water MS

##### Blank (2008002-BLK1)

Prepared: 08/03/20 Analyzed: 08/05/20

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	13.9		"	13.3		104	23-173			
Surrogate: Toluene-d8	12.7		"	13.3		95.6	20-170			
Surrogate: 4-Bromofluorobenzene	11.9		"	13.3		89.0	21-167			

##### LCS (2008002-BS1)

Prepared: 08/03/20 Analyzed: 08/05/20

Benzene	36.9	1.0	ug/l	33.3		111	70-130			
Toluene	37.3	1.0	"	33.3		112	70-130			
Ethylbenzene	41.1	1.0	"	33.3		123	70-130			
m,p-Xylene	83.4	2.0	"	66.7		125	70-130			
o-Xylene	40.0	1.0	"	33.3		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	14.1		"	13.3		106	23-173			
Surrogate: Toluene-d8	13.0		"	13.3		97.4	20-170			
Surrogate: 4-Bromofluorobenzene	12.5		"	13.3		94.1	21-167			

##### Matrix Spike (2008002-MS1)

Source: 2007320-01

Prepared: 08/03/20 Analyzed: 08/05/20

Benzene	37.4	1.0	ug/l	33.3	ND	112	70-130			
Toluene	38.1	1.0	"	33.3	ND	114	70-130			
Ethylbenzene	40.6	1.0	"	33.3	ND	122	70-130			
m,p-Xylene	82.0	2.0	"	66.7	ND	123	70-130			
o-Xylene	38.7	1.0	"	33.3	ND	116	70-130			
Surrogate: 1,2-Dichloroethane-d4	14.5		"	13.3		108	23-173			
Surrogate: Toluene-d8	13.1		"	13.3		98.3	20-170			
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3		93.2	21-167			

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

**Reported:**  
08/11/20 17:30

**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 2008002 - EPA 5030 Water MS**

Matrix Spike Dup (2008002-MSD1)	Source: 2007320-01			Prepared: 08/03/20 Analyzed: 08/05/20						
Benzene	37.7	1.0	ug/l	33.3	ND	113	70-130	0.692	30	
Toluene	38.9	1.0	"	33.3	ND	117	70-130	2.18	30	
Ethylbenzene	40.8	1.0	"	33.3	ND	122	70-130	0.442	30	
m,p-Xylene	81.4	2.0	"	66.7	ND	122	70-130	0.710	30	
o-Xylene	39.4	1.0	"	33.3	ND	118	70-130	1.95	30	
Surrogate: 1,2-Dichloroethane-d4	15.6		"	13.3		117	23-173			
Surrogate: Toluene-d8	13.1		"	13.3		98.0	20-170			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.6	21-167			

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Project: FILE 3Q-32H  
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Project Manager: Brent Hedstrom

**Reported:**  
08/11/20 17:30

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch 2008003 - EPA 3520B**

**Blank (2008003-BLK1)**

Prepared: 08/03/20 Analyzed: 08/04/20

C10-C28 (DRO) ND 5.0 mg/L

**LCS (2008003-BS1)**

Prepared: 08/03/20 Analyzed: 08/04/20

C10-C28 (DRO) 49.8 5.0 mg/L 50.0 99.6 70-130

**Matrix Spike (2008003-MS1)**

**Source: 2007321-03**

Prepared: 08/03/20 Analyzed: 08/04/20

C10-C28 (DRO) 45.0 5.0 mg/L 50.0 ND 90.0 70-130

**Matrix Spike Dup (2008003-MSD1)**

**Source: 2007321-03**

Prepared: 08/03/20 Analyzed: 08/04/20

C10-C28 (DRO) 39.1 5.0 mg/L 50.0 ND 78.3 70-130 13.9 20

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Laramie WY, 82070

Project: FILE 3Q-32H

Project Number: [none]  
Project Manager: Brent Hedstrom

**Reported:**  
08/11/20 17:30

**Dissolved Gases by RSK-175 - Quality Control**  
**Summit Scientific**

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

**Batch 2008073 - GC**

**Blank (2008073-BLK1)**

Prepared: 08/07/20 Analyzed: 08/10/20

Methane	ND	0.010	mg/L							
Ethane	ND	0.010	"							
Propane	ND	0.010	"							
Surrogate: Ethene	0.0279		"	0.0364		76.6	70-130			

**LCS (2008073-BS1)**

Prepared: 08/07/20 Analyzed: 08/10/20

Methane	0.033	0.010	mg/L	0.0428		76.9	70-130			
Ethane	0.083	0.010	"	0.0798		104	70-130			
Propane	0.12	0.010	"	0.139		88.4	70-130			
Surrogate: Ethene	0.0716		"	0.0728		98.3	70-130			

**LCS Dup (2008073-BSD1)**

Prepared: 08/07/20 Analyzed: 08/10/20

Methane	0.032	0.010	mg/L	0.0428		75.1	70-130	2.46	200	
Ethane	0.086	0.010	"	0.0798		108	70-130	3.54	200	
Propane	0.13	0.010	"	0.139		92.4	70-130	4.46	200	
Surrogate: Ethene	0.0664		"	0.0728		91.2	70-130			

**Duplicate (2008073-DUP1)**

Source: 2007305-01

Prepared: 08/07/20 Analyzed: 08/10/20

Methane	0.63	0.10	mg/L		0.66			5.41	30	
Ethane	0.34	0.10	"		0.36			3.14	30	
Propane	0.13	0.10	"		0.13			2.28	30	
Surrogate: Ethene	0.0340		"	0.0364		93.4	70-130			

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Project: FILE 3Q-32H

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Project Manager: Brent Hedstrom

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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interferences.
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