

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 17, 2021

Brent Hedstrom  
Crestone Peak Resources  
2020 E. Grand Avenue, Suite 515  
Laramie, WY 82070  
RE: Morgan Hills 1D-7H  
Work Order #2108090

Enclosed are the results of analyses for samples received by Summit Scientific on 08/05/21 14:00. 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: Morgan Hills 1D-7H

Project Number: [none]  
Project Manager: Brent Hedstrom

**Reported:**  
08/17/21 12:24

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Surface Casing	2108090-01	Water	07/16/21 00:00	08/05/21 14:00

Summit Scientific

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2108090

# Summit Scientific



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	LOE C81147 8503      COGCC 446285
Phone: 303-434-3007	Project Name: Morgan Hills 1D-7H
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	7/16/2021		2									X	X	X	X	X	X	X			
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						

Relinquished by:	Date/Time: 8/3/21 1400	Received by:	Date/Time: 8/5/21 1400	<b>Turn Around Time</b> (Check) Same Day <input type="checkbox"/> 72 hours 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/>	<b>Notes:</b>
Relinquished by:	Date/Time:	Received by:	Date/Time:	<b>Sample Integrity:</b> Temperature Upon Receipt: 3.4 Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	
Relinquished by:	Date/Time:	Received by:	Date/Time:		

**Sample Receipt Checklist**

S2 Work Order 2108090

Client: Crestone Client Project ID: Morgan Hills 10-7H

Shipped Via:  H.D./P.U./FedEx/UPS/USPS/Other \_\_\_\_\_ Airbill #: \_\_\_\_\_

Matrix (check all that apply):  Air  Soil/Solid  Water  Other: \_\_\_\_\_  
(Describe)

Temp (°C)	<u>3.4</u>
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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"/>	
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? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO <sub>3</sub> need to be added @ Lab
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 checked="" type="checkbox"/>	<input type="checkbox"/>	

Additional Comments (if any):  
HNO<sub>3</sub> needs added @ digestion

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

NG  
Custodian Printed Name or Initials

Will Gali  
Signature of Custodian

8/5/21  
Date/Time



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

Project: Morgan Hills 1D-7H

Project Number: [none]  
Project Manager: Brent Hedstrom

**Reported:**  
08/17/21 12:24

**Surface Casing**  
**2108090-01 (Water)**

**Summit Scientific**

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

Date Sampled: **07/16/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>2500</b>	1000	ug/l	1000	BEH0129	08/09/21	08/10/21	EPA 8260B	
<b>Toluene</b>	<b>19000</b>	1000	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>13000</b>	1000	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>94000</b>	2000	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>24000000</b>	5000000	"	10000	"	"	"	"	

Date Sampled: **07/16/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		174 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **07/16/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>4300</b>	50	mg/L	10	BEH0127	08/09/21	08/10/21	EPA 8015M	

Date Sampled: **07/16/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		1670 %	58.9-148		"	"	"	"	S-02

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Project: Morgan Hills 1D-7H

Project Number: [none]  
Project Manager: Brent Hedstrom

**Reported:**  
08/17/21 12:24

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

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

**Batch BEH0129 - EPA 5030 Water MS**

**Blank (BEH0129-BLK1)**

Prepared: 08/09/21 Analyzed: 08/10/21

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>	10.3		"	13.3		77.0	23-173			
<i>Surrogate: Toluene-d8</i>	12.9		"	13.3		97.1	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	11.6		"	13.3		86.8	21-167			

**LCS (BEH0129-BS1)**

Prepared: 08/09/21 Analyzed: 08/10/21

Benzene	36.0	1.0	ug/l	41.7		86.4	70-130			
Toluene	39.9	1.0	"	41.7		95.8	70-130			
Ethylbenzene	45.5	1.0	"	41.7		109	70-130			
m,p-Xylene	94.7	2.0	"	83.3		114	70-130			
o-Xylene	47.6	1.0	"	41.7		114	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	10.5		"	13.3		78.8	23-173			
<i>Surrogate: Toluene-d8</i>	12.8		"	13.3		96.2	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	11.9		"	13.3		89.6	21-167			

**Matrix Spike (BEH0129-MS1)**

Source: 2108079-01

Prepared: 08/09/21 Analyzed: 08/10/21

Benzene	38.2	1.0	ug/l	41.7	ND	91.8	70-130			
Toluene	41.8	1.0	"	41.7	ND	100	70-130			
Ethylbenzene	45.6	1.0	"	41.7	ND	109	70-130			
m,p-Xylene	94.7	2.0	"	83.3	ND	114	70-130			
o-Xylene	47.4	1.0	"	41.7	ND	114	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	10.7		"	13.3		80.0	23-173			
<i>Surrogate: Toluene-d8</i>	13.4		"	13.3		101	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.0		"	13.3		90.2	21-167			

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 Project Manager: Brent Hedstrom

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 08/17/21 12:24

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

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

**Batch BEH0129 - EPA 5030 Water MS**

<b>Matrix Spike Dup (BEH0129-MSD1)</b>	<b>Source: 2108079-01</b>			Prepared: 08/09/21 Analyzed: 08/10/21						
Benzene	37.3	1.0	ug/l	41.7	ND	89.5	70-130	2.54	30	
Toluene	41.0	1.0	"	41.7	ND	98.4	70-130	1.86	30	
Ethylbenzene	45.7	1.0	"	41.7	ND	110	70-130	0.263	30	
m,p-Xylene	94.6	2.0	"	83.3	ND	113	70-130	0.106	30	
o-Xylene	46.8	1.0	"	41.7	ND	112	70-130	1.34	30	
Surrogate: 1,2-Dichloroethane-d4	10.4		"	13.3		78.2	23-173			
Surrogate: Toluene-d8	13.0		"	13.3		97.5	20-170			
Surrogate: 4-Bromofluorobenzene	11.8		"	13.3		88.4	21-167			

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 08/17/21 12:24

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

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

**Batch BEH0127 - EPA 3520B**

**Blank (BEH0127-BLK1)**

Prepared: 08/09/21 Analyzed: 08/10/21

C10-C28 (DRO) ND 5.0 mg/L

**LCS (BEH0127-BS1)**

Prepared: 08/09/21 Analyzed: 08/10/21

C10-C28 (DRO) 56.9 5.0 mg/L 50.0 114 70-130

**Matrix Spike (BEH0127-MS1)**

Source: 2108084-01

Prepared: 08/09/21 Analyzed: 08/10/21

C10-C28 (DRO) 56.2 5.0 mg/L 50.0 3.17 106 70-130

**Matrix Spike Dup (BEH0127-MSD1)**

Source: 2108084-01

Prepared: 08/09/21 Analyzed: 08/10/21

C10-C28 (DRO) 54.5 5.0 mg/L 50.0 3.17 103 70-130 2.93 20

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Project: Morgan Hills 1D-7H  
Project Number: [none]  
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**Reported:**  
08/17/21 12:24

### 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