

Summit Scientific

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, appearing to read "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: 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

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S₂

2108090

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 C81147 8503

COGCC 446285


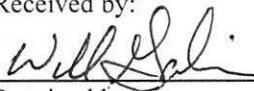
Phone: 303-434-3007

Project Name: Morgan Hills 1D-7H

Sampler Name:

Project Number:

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO ₃	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:	Received by:	Date/Time:	Turn Around Time (Check)	Notes:
	8/3/21 1400		8/5/21 1400	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: 3.4 Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No
Relinquished by:	Date/Time:	Received by:	Date/Time:		

www.s2scientific.com

Sample Receipt Checklist

S2 Work Order 2108090

Client: Crestone Client Project ID: Morgan Hills 1D-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) 3.4

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"/>	
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ANIONS
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 checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3 need to be added @ Lab
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? 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):

HNO3 needs added @ digestion

⁽¹⁾ 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
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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
Benzene	2500	1000	ug/l	1000	BEH0129	08/09/21	08/10/21	EPA 8260B	
Toluene	19000	1000	"	"	"	"	"	"	
Ethylbenzene	13000	1000	"	"	"	"	"	"	
Xylenes (total)	94000	2000	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	24000000	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
C10-C28 (DRO)	4300	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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Reported:
08/17/21 12:24

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 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	"							
Surrogate: 1,2-Dichloroethane-d4	10.3		"	13.3		77.0	23-173			
Surrogate: Toluene-d8	12.9		"	13.3		97.1	20-170			
Surrogate: 4-Bromofluorobenzene	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			
Surrogate: 1,2-Dichloroethane-d4	10.5		"	13.3		78.8	23-173			
Surrogate: Toluene-d8	12.8		"	13.3		96.2	20-170			
Surrogate: 4-Bromofluorobenzene	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			
Surrogate: 1,2-Dichloroethane-d4	10.7		"	13.3		80.0	23-173			
Surrogate: Toluene-d8	13.4		"	13.3		101	20-170			
Surrogate: 4-Bromofluorobenzene	12.0		"	13.3		90.2	21-167			

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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

Matrix Spike Dup (BEH0129-MSD1)	Source: 2108079-01			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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Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

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]
Project Manager: Brent Hedstrom

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