

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

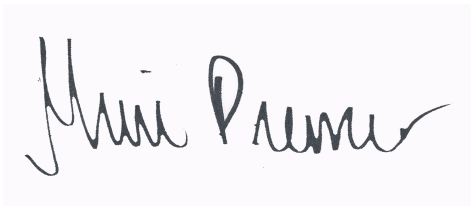
303.277.9310

February 15, 2021

Brent Hedstrom  
Crestone Peak Resources  
2020 E. Grand Avenue, Suite 515  
Laramie, WY 82070  
RE: Anderson 41-32  
Work Order #2102077

Enclosed are the results of analyses for samples received by Summit Scientific on 02/04/21 09:50. 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: Anderson 41-32  
Project Number: COGCC 234514  
Project Manager: Brent Hedstrom

**Reported:**  
02/15/21 12:09

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Surface Casing	2102077-01	Water	01/28/21 00:00	02/04/21 09:50

Summit Scientific

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# Summit Scientific

S<sub>2</sub>

2102077

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

Phone: 303-434-3007


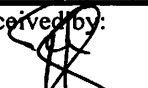
Project Name: Anderson 41-32

COGCC 234514

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	1/28/2021		2										X	X	X	X	X	X	X	X	LOE W761328 Code 8503
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						

Relinquished by: 	Date/Time: 2-4-21 9:51 AM	Received by: 	Date/Time: 02/04/2021 9:51	<b>Turn Around Time (Check)</b> Same Day <input type="checkbox"/> 72 hours 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> <b>Sample Integrity:</b> Temperature Upon Receipt: _____ Samples Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<b>Notes:</b>
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

**Sample Receipt Checklist**

S2 Work Order 2102077

Client: CRESTONE PEAK Client Project ID: ANDERSON 41-32

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


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

Temp (°C)	3.7
-----------	-----

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.	✓			
Were all samples received intact <sup>(1)</sup> ?	✓			
Was adequate sample volume provided <sup>(1)</sup> ?	✓			
If custody seals are present, are they intact <sup>(1)</sup> ?			✓	
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 <sup>(1)</sup> ?	✓			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	✓			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	✓			
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	✓			
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>		✓		
Are samples preserved that require preservation <b>(excluding cooling)</b> <sup>(1)</sup> ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	✓			HNO3
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ? Record the pH in Comments.		✓		
If dissolved metals are requested, were samples field filtered?			✓	
<u>Additional Comments (if any):</u>				
<b><sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.</b>				

RZ  
Custodian Printed Name or Initials

  
Signature of Custodian

2/4/21  
Date/Time



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

Project: Anderson 41-32  
Project Number: COGCC 234514  
Project Manager: Brent Hedstrom

**Reported:**  
02/15/21 12:09

**Surface Casing**  
**2102077-01 (Water)**

**Summit Scientific**

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

Date Sampled: **01/28/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>330</b>	10	ug/l	10	BEB0117	02/08/21	02/08/21	EPA 8260B	
<b>Toluene</b>	<b>480</b>	10	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>43</b>	10	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>310</b>	20	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>14000</b>	5000	"	"	"	"	"	"	

Date Sampled: **01/28/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		83.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/28/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>7.9</b>	5.0	mg/L	1	BEB0118	02/08/21	02/09/21	EPA 8015M	

Date Sampled: **01/28/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		104 %	58.9-148		"	"	"	"	

**Dissolved Gases by RSK-175**

Date Sampled: **01/28/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Methane</b>	<b>2.7</b>	1.0	mg/L	100	BEB0099	02/05/21	02/09/21	RSK-175 mod	
<b>Ethane</b>	<b>0.16</b>	0.10	"	10	"	"	"	"	
<b>Propane</b>	<b>0.15</b>	0.10	"	"	"	"	"	"	

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Project: Anderson 41-32  
Project Number: COGCC 234514  
Project Manager: Brent Hedstrom

**Reported:**  
02/15/21 12:09

**Surface Casing  
2102077-01 (Water)**

**Summit Scientific**

**Dissolved Gases by RSK-175**

Date Sampled: **01/28/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Ethene		157 %	70-130		BEB0099	02/05/21	02/09/21	RSK-175 mod	S-06

**Total Metals by EPA Method 200.8**

Date Sampled: **01/28/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	6590	500	ug/l	10	BEB0130	02/09/21	02/10/21	EPA 200.8	
Magnesium	2510	500	"	"	"	"	"	"	
Potassium	4290	500	"	"	"	"	"	"	
Sodium	1000000	500	"	"	"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **01/28/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	640	30.0	mg/L	500	BEB0127	02/09/21	02/09/21	EPA 300.0	
Sulfate	775	150	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **01/28/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	1500	10.0	mg/L	1	BEB0145	02/10/21	02/10/21	SM2540C	I-03

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Project Number: COGCC 234514  
Project Manager: Brent Hedstrom

**Reported:**  
02/15/21 12:09

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

**Summit Scientific**

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

**Batch BEB0117 - EPA 5030 Water MS**

**Blank (BEB0117-BLK1)**

Prepared: 02/08/21 Analyzed: 02/09/21

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>	18.7		"	13.3		141	23-173			
<i>Surrogate: Toluene-d8</i>	11.7		"	13.3		87.7	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.4		"	13.3		100	21-167			

**LCS (BEB0117-BS1)**

Prepared: 02/08/21 Analyzed: 02/09/21

Benzene	38.4	1.0	ug/l	33.3		115	70-130			
Toluene	34.2	1.0	"	33.3		103	70-130			
Ethylbenzene	40.2	1.0	"	33.3		120	70-130			
m,p-Xylene	66.0	2.0	"	66.7		99.0	70-130			
o-Xylene	38.2	1.0	"	33.3		114	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	18.2		"	13.3		136	23-173			
<i>Surrogate: Toluene-d8</i>	11.8		"	13.3		88.1	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.6		"	13.3		102	21-167			

**Matrix Spike (BEB0117-MS1)**

Source: 2102107-02

Prepared: 02/08/21 Analyzed: 02/09/21

Benzene	38.6	1.0	ug/l	33.3	ND	116	70-130			
Toluene	35.1	1.0	"	33.3	ND	105	70-130			
Ethylbenzene	41.3	1.0	"	33.3	ND	124	70-130			
m,p-Xylene	66.7	2.0	"	66.7	ND	100	70-130			
o-Xylene	39.0	1.0	"	33.3	ND	117	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	18.5		"	13.3		139	23-173			
<i>Surrogate: Toluene-d8</i>	11.9		"	13.3		89.5	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.8		"	13.3		103	21-167			

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 02/15/21 12:09

**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 BEB0117 - EPA 5030 Water MS**

<b>Matrix Spike Dup (BEB0117-MSD1)</b>	<b>Source: 2102107-02</b>			<b>Prepared: 02/08/21 Analyzed: 02/09/21</b>						
Benzene	38.6	1.0	ug/l	33.3	ND	116	70-130	0.104	30	
Toluene	35.2	1.0	"	33.3	ND	106	70-130	0.540	30	
Ethylbenzene	40.4	1.0	"	33.3	ND	121	70-130	2.06	30	
m,p-Xylene	65.5	2.0	"	66.7	ND	98.2	70-130	1.88	30	
o-Xylene	38.1	1.0	"	33.3	ND	114	70-130	2.26	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>19.2</i>		<i>"</i>	<i>13.3</i>		<i>144</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>12.1</i>		<i>"</i>	<i>13.3</i>		<i>91.0</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.8</i>		<i>"</i>	<i>13.3</i>		<i>104</i>	<i>21-167</i>			

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 02/15/21 12:09

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

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

**Batch BEB0118 - EPA 3520B**

**Blank (BEB0118-BLK1)**

Prepared: 02/08/21 Analyzed: 02/09/21

C10-C28 (DRO) ND 5.0 mg/L

**LCS (BEB0118-BS1)**

Prepared: 02/08/21 Analyzed: 02/09/21

C10-C28 (DRO) 46.1 5.0 mg/L 50.0 92.3 70-130

**LCS Dup (BEB0118-BSD1)**

Prepared: 02/08/21 Analyzed: 02/09/21

C10-C28 (DRO) 41.9 5.0 mg/L 50.0 83.7 70-130 9.69 20

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02/15/21 12:09

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

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

**Batch BEB0099 - GC**

**Blank (BEB0099-BLK1)**

Prepared: 02/05/21 Analyzed: 02/08/21

Methane	ND	0.010	mg/L							
Ethane	ND	0.010	"							
Propane	ND	0.010	"							
Surrogate: Ethene	0.0383		"	0.0364		105	70-130			

**LCS (BEB0099-BS1)**

Prepared: 02/05/21 Analyzed: 02/08/21

Methane	0.030	0.010	mg/L	0.0428		71.3	70-130			
Ethane	0.10	0.010	"	0.0798		126	70-130			
Propane	0.17	0.010	"	0.139		120	70-130			
Surrogate: Ethene	0.0723		"	0.0728		99.3	70-130			

**Duplicate (BEB0099-DUP1)**

Source: 2102074-01

Prepared: 02/05/21 Analyzed: 02/09/21

Methane	1.3	1.0	mg/L		1.4			9.38	30	
Ethane	0.022	0.010	"		0.023			4.94	30	
Propane	0.054	0.010	"		0.056			3.99	30	
Surrogate: Ethene	0.0352		"	0.0364		96.7	70-130			

**Matrix Spike (BEB0099-MS1)**

Source: 2102074-01

Prepared: 02/05/21 Analyzed: 02/08/21

Methane	1.9	0.10	mg/L	0.0428	1.4	NR	70-130			QL-01
Ethane	0.11	0.010	"	0.0798	0.023	106	70-130			
Propane	0.24	0.010	"	0.139	0.056	130	70-130			
Surrogate: Ethene	0.0760		"	0.0728		104	70-130			

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02/15/21 12:09

**Total Metals by EPA Method 200.8 - Quality Control**  
**Summit Scientific**

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

**Batch BEB0130 - EPA 200.8**

**Blank (BEB0130-BLK1)**

Prepared & Analyzed: 02/09/21

Calcium	ND	50.0	ug/l							
Magnesium	ND	50.0	"							
Potassium	ND	50.0	"							
Sodium	ND	50.0	"							

**LCS (BEB0130-BS1)**

Prepared & Analyzed: 02/09/21

Calcium	4750	50.0	ug/l	5000		94.9	85-115			
Magnesium	4570	50.0	"	5000		91.5	85-115			
Potassium	4270	50.0	"	5000		85.3	85-115			
Sodium	4460	50.0	"	5000		89.1	85-115			

**Duplicate (BEB0130-DUP1)**

Source: 2102118-01

Prepared & Analyzed: 02/09/21

Calcium	85800	50.0	ug/l		81000			5.71	20	
Magnesium	36700	50.0	"		36400			0.983	20	
Potassium	23800	50.0	"		23500			1.19	20	
Sodium	23400	50.0	"		23700			1.56	20	

**Matrix Spike (BEB0130-MS1)**

Source: 2102118-01

Prepared & Analyzed: 02/09/21

Calcium	80600	50.0	ug/l	5000	81000	NR	70-130			QM-01
Magnesium	37400	50.0	"	5000	36400	21.3	70-130			QM-01
Potassium	24300	50.0	"	5000	23500	16.2	70-130			QM-01
Sodium	24400	50.0	"	5000	23700	13.5	70-130			QM-01

**Matrix Spike Dup (BEB0130-MSD1)**

Source: 2102118-01

Prepared & Analyzed: 02/09/21

Calcium	81100	50.0	ug/l	5000	81000	1.48	70-130	0.646	25	QM-01
Magnesium	37600	50.0	"	5000	36400	25.2	70-130	0.526	25	QM-01
Potassium	24200	50.0	"	5000	23500	13.6	70-130	0.535	25	QM-01
Sodium	25200	50.0	"	5000	23700	28.3	70-130	3.00	25	QM-01

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**Anions by EPA Method 300.0 - Quality Control**  
**Summit Scientific**

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

**Batch BEB0127 - General Preparation**

**Blank (BEB0127-BLK1)**

Prepared & Analyzed: 02/09/21

Chloride	ND	0.0600	mg/L						
Sulfate	ND	0.300	"						

**LCS (BEB0127-BS1)**

Prepared & Analyzed: 02/09/21

Sulfate	14.2	0.300	mg/L	15.0	94.4	90-110
Chloride	2.94	0.0600	"	3.00	98.0	90-110

**Duplicate (BEB0127-DUP1)**

Source: 2102032-05

Prepared & Analyzed: 02/09/21

Chloride	494	12.0	mg/L	545	9.86	20
Sulfate	1080	60.0	"	1190	9.82	20

**Matrix Spike (BEB0127-MS1)**

Source: 2102032-05

Prepared & Analyzed: 02/09/21

Chloride	1240	12.0	mg/L	600	545	116	80-120
Sulfate	4400	60.0	"	3000	1190	107	80-120

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**Reported:**  
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**Total Dissolved Solids by SM2540C - Quality Control**  
**Summit Scientific**

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

**Batch BEB0145 - General Preparation**

**Blank (BEB0145-BLK1)**

Prepared & Analyzed: 02/10/21

Total Dissolved Solids                      ND                      10.0                      mg/L

**Duplicate (BEB0145-DUP1)**

**Source: 2102074-01**

Prepared & Analyzed: 02/10/21

Total Dissolved Solids                      1940                      10.0                      mg/L                      1950                      0.360                      20

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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.
- QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- QL-01 Sample results for the QC batch were accepted based on LCS/LCSD percent recoveries and RPD values.
- I-03 This sample was recieved and analyzed outside of the recommended holding time.
- 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