

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

May 03, 2023

Costin McQueen

Civitas Resources

650 Southgate Drive

Windsor, CO 80550

RE: Hunt 8-60 17A

Work Order # 2304571

Enclosed are the results of analyses for samples received by Summit Scientific on 04/26/23 16:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott Sheely For Paul Shrewsbury

President



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Hunt 8-60 17A

Project Number: [none]

Project Manager: Costin McQueen

Reported:
05/03/23 14:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WC-01	2304571-01	Soil	04/26/23 09:53	04/26/23 16:15
WCBK-01	2304571-02	Soil	04/26/23 09:38	04/26/23 16:15

Summit Scientific

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4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page 1 of 1
2304571	

Client: <u>Civitas Resources</u>		Project Manager: <u>Costin McQueen</u>		Company: <u>Civitas</u>	
Address: <u>CoSO Southgate Dr.</u>		E-Mail: <u>CMcQueen@CivitasResources.com</u>		Project Name/Location: <u>Hunt 17A Pad</u>	
City/State/Zip: <u>Windsor, CO 80550</u>		E-Mail: <u>cfrost@CivitasResources.com</u>		AFE#: <u>C/C: P1647</u>	
Phone: <u>720-438-9064</u>		Project Name: <u>Hunt 8-60 17A</u>		PO/Billing Codes: <u>m/m: 8520-162</u>	
Sampler Name: <u>Coq Frost</u>		Project Number:		Contact: <u>Costin McQueen</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other				
1	WC-01	4-26-23	9:53am	2						X						Full 915
2	WCBK-01	4-26-23	9:38am	2						X						Full 915
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																

Relinquished by: <u>Coq Frost</u>	Date/Time: <u>4-26-23/4:15pm</u>	Received by: <u>[Signature]</u>	Date/Time: <u>4/26/23 1615</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <u>9.7</u>	Corrected Temperature: <u>9</u>	IR gun #: <u>1</u>	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2304571

Client: Cintas Client Project ID: Hunt 8-LEO 17A

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

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ZOE
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sameday
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input type="checkbox"/>	<input checked="" 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"/>	
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"/>	
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"/>	
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, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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):				

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

ARS

Custodian Printed Name

4/26/23

Date/Time



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Hunt 8-60 17A

Project Number: [none]
Project Manager: Costin McQueen

Reported:
05/03/23 14:05

WC-01
2304571-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/26/23 09:53**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	0.060	0.0020		mg/kg	1	BGD0906	04/26/23	04/26/23	EPA 8260B	
Toluene	10	0.050		"	10	"	"	"	"	E
Ethylbenzene	9.1	0.050		"	"	"	"	"	"	E
Xylenes (total)	33	0.10		"	"	"	"	"	"	E
1,2,4-Trimethylbenzene	11	0.050		"	"	"	"	"	"	E
1,3,5-Trimethylbenzene	2.9	0.050		"	"	"	"	"	"	
Naphthalene	3.4	0.038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	720	5.0		"	"	"	"	"	"	E

Date Sampled: **04/26/23 09:53**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		82.4 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		188 %		50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene		131 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/26/23 09:53**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	6500	50		mg/kg	1	BGD0905	04/26/23	04/26/23	EPA 8015M	
C28-C36 (ORO)	650	50		"	"	"	"	"	"	

Date Sampled: **04/26/23 09:53**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		388 %		30-150		"	"	"	"	S-02

PAH by EPA Method 8270D SIM

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Project Number: [none]
Project Manager: Costin McQueen

Reported:
05/03/23 14:05

WC-01
2304571-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/26/23 09:53**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGD0910	04/27/23	04/27/23	EPA 8270D SIM	
Anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) pyrene	0.0125	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Chrysene	0.0320	0.00500		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500		"	"	"	"	"	"	
Fluoranthene	ND	0.00500		"	"	"	"	"	"	
Fluorene	0.0848	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	ND	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	1.10	0.00500		"	"	"	"	"	"	E
2-Methylnaphthalene	1.10	0.00500		"	"	"	"	"	"	E

Date Sampled: **04/26/23 09:53**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		%		40-150		"	"	"	"	S-01
Surrogate: Fluoranthene-d10		%		40-150		"	"	"	"	S-01

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/26/23 09:53**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.322	0.0100		mg/L	1	BGD0988	04/29/23	04/30/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/26/23 09:53**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Hunt 8-60 17A

Project Number: [none]
Project Manager: Costin McQueen

Reported:
05/03/23 14:05

WC-01
2304571-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.862	0.219		mg/kg dry	1	BGD0909	04/27/23	04/30/23	EPA 6020B	
Barium	98.2	0.437		"	"	"	"	"	"	
Cadmium	ND	0.219		"	"	"	"	"	"	
Copper	0.752	0.437		"	"	"	"	"	"	
Lead	7.47	0.219		"	"	"	"	"	"	
Nickel	0.842	0.437		"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	
Silver	0.0232	0.0219		"	"	"	"	"	"	
Zinc	2.99	0.437		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/26/23 09:53**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGD0930	04/27/23	04/27/23	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **04/26/23 09:53**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	506	0.0546		mg/L dry	1	BGD0945	04/27/23	05/02/23	EPA 6020B	
Magnesium	38.5	0.0546		"	"	"	"	"	"	
Sodium	104	0.0546		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/26/23 09:53**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.20	0.00100		units	1	BGE0078	05/02/23	05/02/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project Number: [none]
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WC-01
2304571-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/26/23 09:53**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	91.5			%	1	BGD0973	04/28/23	04/28/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/26/23 09:53**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.519	0.0100		mmhos/cm	1	BGE0022	05/01/23	05/01/23	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **04/26/23 09:53**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.30			pH Units	1	BGE0023	05/01/23	05/01/23	EPA 9045D	

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05/03/23 14:05

WCBK-01
2304571-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/26/23 09:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGD0906	04/26/23	04/26/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **04/26/23 09:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		94.7 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		88.9 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/26/23 09:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGD0905	04/26/23	04/26/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/26/23 09:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		114 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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05/03/23 14:05

WCBK-01
2304571-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/26/23 09:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500		mg/kg	1	BGD0910	04/27/23	04/27/23	EPA 8270D SIM	
Anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Chrysene	ND	0.00500		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500		"	"	"	"	"	"	
Fluoranthene	ND	0.00500		"	"	"	"	"	"	
Fluorene	ND	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	ND	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	

Date Sampled: **04/26/23 09:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		59.0 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		68.6 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/26/23 09:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.284	0.0100		mg/L	1	BGD0988	04/29/23	04/30/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/26/23 09:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

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Project: Hunt 8-60 17A

Project Number: [none]
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05/03/23 14:05

WCBK-01
2304571-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	0.446	0.240	mg/kg dry	1	BGD0909	04/27/23	04/30/23	EPA 6020B
Barium	129	0.480	"	"	"	"	"	"
Cadmium	ND	0.240	"	"	"	"	"	"
Copper	0.762	0.480	"	"	"	"	"	"
Lead	4.79	0.240	"	"	"	"	"	"
Nickel	0.853	0.480	"	"	"	"	"	"
Selenium	ND	0.260	0.175	"	"	"	"	"
Silver	ND	0.0240	"	"	"	"	"	"
Zinc	3.50	0.480	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/26/23 09:38**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGD0930	04/27/23	04/27/23	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **04/26/23 09:38**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	995	0.0600		mg/L dry	1	BGD0945	04/27/23	05/02/23	EPA 6020B	
Magnesium	93.4	0.0600		"	"	"	"	"	"	
Sodium	108	0.0600		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/26/23 09:38**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.877	0.00100		units	1	BGE0078	05/02/23	05/02/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Civitas Resources
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Project: Hunt 8-60 17A

Project Number: [none]
Project Manager: Costin McQueen

Reported:
05/03/23 14:05

WCBK-01
2304571-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/26/23 09:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	83.3			%	1	BGD0973	04/28/23	04/28/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/26/23 09:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.396	0.0100		mmhos/cm	1	BGE0022	05/01/23	05/01/23	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **04/26/23 09:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.34			pH Units	1	BGE0023	05/01/23	05/01/23	EPA 9045D	

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Project: Hunt 8-60 17A

Project Number: [none]
Project Manager: Costin McQueen

Reported:
05/03/23 14:05

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 BGD0906 - EPA 5030 Soil MS

Blank (BGD0906-BLK1)

Prepared & Analyzed: 04/26/23

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
Naphthalene	ND	0.0038	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0447		"	0.0400		112	50-150				
<i>Surrogate: Toluene-d8</i>	0.0394		"	0.0400		98.4	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0415		"	0.0400		104	50-150				

LCS (BGD0906-BS1)

Prepared: 04/26/23 Analyzed: 04/27/23

Benzene	0.0831	0.0020	mg/kg	0.100		83.1	70-130				
Toluene	0.0904	0.0050	"	0.100		90.4	70-130				
Ethylbenzene	0.107	0.0050	"	0.100		107	70-130				
m,p-Xylene	0.209	0.010	"	0.200		105	70-130				
o-Xylene	0.100	0.0050	"	0.100		100	70-130				
1,2,4-Trimethylbenzene	0.119	0.0050	"	0.100		119	70-130				
1,3,5-Trimethylbenzene	0.108	0.0050	"	0.100		108	70-130				
Naphthalene	0.0727	0.0038	"	0.100		72.7	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0355		"	0.0400		88.7	50-150				
<i>Surrogate: Toluene-d8</i>	0.0383		"	0.0400		95.7	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0383		"	0.0400		95.8	50-150				

Matrix Spike (BGD0906-MS1)

Source: 2304569-01

Prepared: 04/26/23 Analyzed: 04/27/23

Benzene	0.0844	0.0020	mg/kg	0.100	ND	84.4	70-130				
Toluene	0.0820	0.0050	"	0.100	ND	82.0	70-130				
Ethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130				
m,p-Xylene	0.204	0.010	"	0.200	ND	102	70-130				
o-Xylene	0.108	0.0050	"	0.100	ND	108	70-130				
1,2,4-Trimethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130				
1,3,5-Trimethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130				
Naphthalene	0.0803	0.0038	"	0.100	ND	80.3	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0353		"	0.0400		88.2	50-150				
<i>Surrogate: Toluene-d8</i>	0.0358		"	0.0400		89.5	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0362		"	0.0400		90.6	50-150				

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Hunt 8-60 17A

Project Number: [none]
Project Manager: Costin McQueen

Reported:
05/03/23 14:05

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 BGD0906 - EPA 5030 Soil MS

Matrix Spike Dup (BGD0906-MSD1)	Source: 2304569-01			Prepared: 04/26/23 Analyzed: 04/27/23						
Benzene	0.0847	0.0020	mg/kg	0.100	ND	84.7	70-130	0.426	30	
Toluene	0.0951	0.0050	"	0.100	ND	95.1	70-130	14.8	30	
Ethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130	1.70	30	
m,p-Xylene	0.200	0.010	"	0.200	ND	99.8	70-130	2.13	30	
o-Xylene	0.0998	0.0050	"	0.100	ND	99.8	70-130	8.11	30	
1,2,4-Trimethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130	6.46	30	
1,3,5-Trimethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130	1.86	30	
Naphthalene	0.0726	0.0038	"	0.100	ND	72.6	70-130	10.0	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0377</i>		<i>"</i>	<i>0.0400</i>		<i>94.3</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0426</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0418</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>			

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Hunt 8-60 17A

Project Number: [none]
Project Manager: Costin McQueen

Reported:
05/03/23 14:05

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 BGD0905 - EPA 3550A

Blank (BGD0905-BLK1)

Prepared: 04/26/23 Analyzed: 04/27/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	15.6		"	12.5		125	30-150				

LCS (BGD0905-BS1)

Prepared: 04/26/23 Analyzed: 04/27/23

C10-C28 (DRO)	522	50	mg/kg	500		104	70-130				
Surrogate: <i>o</i> -Terphenyl	12.4		"	12.5		99.2	30-150				

Matrix Spike (BGD0905-MS1)

Source: 2304569-01

Prepared: 04/26/23 Analyzed: 04/27/23

C10-C28 (DRO)	617	50	mg/kg	500	31.5	117	70-130				
Surrogate: <i>o</i> -Terphenyl	16.8		"	12.5		134	30-150				

Matrix Spike Dup (BGD0905-MSD1)

Source: 2304569-01

Prepared: 04/26/23 Analyzed: 04/27/23

C10-C28 (DRO)	676	50	mg/kg	500	31.5	129	70-130	8.99	20		
Surrogate: <i>o</i> -Terphenyl	16.1		"	12.5		129	30-150				

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Hunt 8-60 17A

Project Number: [none]
Project Manager: Costin McQueen

Reported:
05/03/23 14:05

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGD0910 - EPA 5030 Soil MS

Blank (BGD0910-BLK1)

Prepared & Analyzed: 04/27/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0257</i>		<i>"</i>	<i>0.0333</i>		<i>77.2</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0366</i>		<i>"</i>	<i>0.0333</i>		<i>110</i>		<i>40-150</i>		

LCS (BGD0910-BS1)

Prepared & Analyzed: 04/27/23

Acenaphthene	0.0333	0.00500	mg/kg	0.0333		99.9		31-137		
Anthracene	0.0342	0.00500	"	0.0333		103		30-120		
Benzo (a) anthracene	0.0349	0.00500	"	0.0333		105		30-120		
Benzo (a) pyrene	0.0338	0.00500	"	0.0333		101		30-120		
Benzo (b) fluoranthene	0.0331	0.00500	"	0.0333		99.3		30-120		
Benzo (k) fluoranthene	0.0354	0.00500	"	0.0333		106		30-120		
Chrysene	0.0366	0.00500	"	0.0333		110		30-120		
Dibenz (a,h) anthracene	0.0301	0.00500	"	0.0333		90.3		30-120		
Fluoranthene	0.0352	0.00500	"	0.0333		106		30-120		
Fluorene	0.0337	0.00500	"	0.0333		101		30-120		
Indeno (1,2,3-cd) pyrene	0.0322	0.00500	"	0.0333		96.5		30-120		
Pyrene	0.0369	0.00500	"	0.0333		111		35-142		
1-Methylnaphthalene	0.0276	0.00500	"	0.0333		82.7		35-142		
2-Methylnaphthalene	0.0321	0.00500	"	0.0333		96.3		35-142		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0292</i>		<i>"</i>	<i>0.0333</i>		<i>87.6</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0356</i>		<i>"</i>	<i>0.0333</i>		<i>107</i>		<i>40-150</i>		

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Hunt 8-60 17A

Project Number: [none]
Project Manager: Costin McQueen

Reported:
05/03/23 14:05

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGD0910 - EPA 5030 Soil MS

Matrix Spike (BGD0910-MS1)	Source: 2304529-01			Prepared & Analyzed: 04/27/23						
Acenaphthene	0.0215	0.00500	mg/kg	0.0333	ND	64.4	31-137			
Anthracene	0.0227	0.00500	"	0.0333	ND	68.2	30-120			
Benzo (a) anthracene	0.0235	0.00500	"	0.0333	ND	70.4	30-120			
Benzo (a) pyrene	0.0223	0.00500	"	0.0333	ND	67.0	30-120			
Benzo (b) fluoranthene	0.0214	0.00500	"	0.0333	ND	64.3	30-120			
Benzo (k) fluoranthene	0.0228	0.00500	"	0.0333	ND	68.4	30-120			
Chrysene	0.0244	0.00500	"	0.0333	ND	73.1	30-120			
Dibenz (a,h) anthracene	0.0189	0.00500	"	0.0333	ND	56.6	30-120			
Fluoranthene	0.0233	0.00500	"	0.0333	ND	69.8	30-120			
Fluorene	0.0220	0.00500	"	0.0333	ND	65.9	30-120			
Indeno (1,2,3-cd) pyrene	0.0208	0.00500	"	0.0333	ND	62.3	30-120			
Pyrene	0.0253	0.00500	"	0.0333	ND	75.9	35-142			
1-Methylnaphthalene	0.0193	0.00500	"	0.0333	ND	57.9	15-130			
2-Methylnaphthalene	0.0209	0.00500	"	0.0333	ND	62.8	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0191		"	0.0333		57.4	40-150			
Surrogate: Fluoranthene-d10	0.0244		"	0.0333		73.1	40-150			

Matrix Spike Dup (BGD0910-MSD1)	Source: 2304529-01			Prepared & Analyzed: 04/27/23						
Acenaphthene	0.0228	0.00500	mg/kg	0.0333	ND	68.4	31-137	6.00	30	
Anthracene	0.0248	0.00500	"	0.0333	ND	74.4	30-120	8.69	30	
Benzo (a) anthracene	0.0250	0.00500	"	0.0333	ND	74.9	30-120	6.11	30	
Benzo (a) pyrene	0.0242	0.00500	"	0.0333	ND	72.7	30-120	8.23	30	
Benzo (b) fluoranthene	0.0227	0.00500	"	0.0333	ND	68.1	30-120	5.79	30	
Benzo (k) fluoranthene	0.0246	0.00500	"	0.0333	ND	73.8	30-120	7.57	30	
Chrysene	0.0260	0.00500	"	0.0333	ND	78.1	30-120	6.62	30	
Dibenz (a,h) anthracene	0.0196	0.00500	"	0.0333	ND	58.8	30-120	3.67	30	
Fluoranthene	0.0241	0.00500	"	0.0333	ND	72.4	30-120	3.62	30	
Fluorene	0.0234	0.00500	"	0.0333	ND	70.1	30-120	6.16	30	
Indeno (1,2,3-cd) pyrene	0.0225	0.00500	"	0.0333	ND	67.4	30-120	7.82	30	
Pyrene	0.0261	0.00500	"	0.0333	ND	78.4	35-142	3.31	30	
1-Methylnaphthalene	0.0245	0.00500	"	0.0333	ND	73.6	15-130	23.9	50	
2-Methylnaphthalene	0.0252	0.00500	"	0.0333	ND	75.5	15-130	18.3	50	
Surrogate: 2-Methylnaphthalene-d10	0.0247		"	0.0333		74.0	40-150			
Surrogate: Fluoranthene-d10	0.0251		"	0.0333		75.2	40-150			

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Hunt 8-60 17A

Project Number: [none]
Project Manager: Costin McQueen

Reported:
05/03/23 14:05

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BGD0988 - EPA 3050B

Blank (BGD0988-BLK1)

Prepared: 04/29/23 Analyzed: 04/30/23

Boron ND 0.0100 mg/L

LCS (BGD0988-BS1)

Prepared: 04/29/23 Analyzed: 04/30/23

Boron 4.83 0.0100 mg/L 5.00 96.5 80-120

Duplicate (BGD0988-DUP1)

Source: 2304569-01

Prepared: 04/29/23 Analyzed: 04/30/23

Boron 0.104 0.0100 mg/L 0.111 6.12 20

Matrix Spike (BGD0988-MS1)

Source: 2304569-01

Prepared: 04/29/23 Analyzed: 04/30/23

Boron 4.91 0.0100 mg/L 5.00 0.111 96.0 75-125

Matrix Spike Dup (BGD0988-MSD1)

Source: 2304569-01

Prepared: 04/29/23 Analyzed: 04/30/23

Boron 5.09 0.0100 mg/L 5.00 0.111 99.5 75-125 3.46 25

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Hunt 8-60 17A

Project Number: [none]
Project Manager: Costin McQueen

Reported:
05/03/23 14:05

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGD0909 - EPA 3050B

Blank (BGD0909-BLK1)

Prepared: 04/27/23 Analyzed: 04/30/23

Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Selenium	ND	0.260	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							

LCS (BGD0909-BS1)

Prepared: 04/27/23 Analyzed: 04/30/23

Arsenic	33.9	0.200	mg/kg wet	40.0	84.6	80-120
Barium	32.2	0.400	"	40.0	80.5	80-120
Cadmium	1.67	0.200	"	2.00	83.6	80-120
Copper	34.8	0.400	"	40.0	87.0	80-120
Lead	19.7	0.200	"	20.0	98.5	80-120
Nickel	34.6	0.400	"	40.0	86.4	80-120
Selenium	3.38	0.260	"	4.00	84.4	80-120
Silver	1.71	0.0200	"	2.00	85.5	80-120
Zinc	35.1	0.400	"	40.0	87.7	80-120

Duplicate (BGD0909-DUP1)

Source: 2304472-01

Prepared: 04/27/23 Analyzed: 04/30/23

Arsenic	1.00	0.234	mg/kg dry	0.935	6.63	20
Barium	39.0	0.468	"	38.0	2.56	20
Cadmium	0.0753	0.234	"	0.0622	19.0	20
Copper	1.42	0.468	"	1.39	2.03	20
Lead	2.98	0.234	"	2.91	2.54	20
Nickel	1.55	0.468	"	1.50	3.41	20
Selenium	ND	0.260	"	ND		20
Silver	0.0248	0.0234	"	0.0159	43.7	20
Zinc	5.49	0.468	"	5.45	0.642	20

QR-01

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Hunt 8-60 17A

Project Number: [none]
Project Manager: Costin McQueen

Reported:
05/03/23 14:05

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGD0909 - EPA 3050B

Matrix Spike (BGD0909-MS1)

Source: 2304472-01

Prepared: 04/27/23 Analyzed: 04/30/23

Arsenic	17.8	0.234	mg/kg dry	46.8	0.935	36.1	75-125				QM-07
Barium	69.5	0.468	"	46.8	38.0	67.4	75-125				QM-07
Cadmium	1.66	0.234	"	2.34	0.0622	68.3	75-125				QM-07
Copper	18.5	0.468	"	46.8	1.39	36.5	75-125				QM-07
Lead	18.6	0.234	"	23.4	2.91	66.9	75-125				QM-07
Nickel	18.4	0.468	"	46.8	1.50	36.2	75-125				QM-07
Selenium	3.44	0.260	"	4.68	ND	73.5	75-125				QM-07
Silver	1.74	0.0234	"	2.34	0.0159	73.6	75-125				QM-07
Zinc	23.3	0.468	"	46.8	5.45	38.1	75-125				QM-07

Matrix Spike Dup (BGD0909-MSD1)

Source: 2304472-01

Prepared: 04/27/23 Analyzed: 04/30/23

Arsenic	17.9	0.234	mg/kg dry	46.8	0.935	36.2	75-125	0.272	25		QM-07
Barium	74.2	0.468	"	46.8	38.0	77.4	75-125	6.53	25		
Cadmium	1.94	0.234	"	2.34	0.0622	80.2	75-125	15.5	25		
Copper	17.7	0.468	"	46.8	1.39	34.9	75-125	4.09	25		QM-07
Lead	19.6	0.234	"	23.4	2.91	71.3	75-125	5.37	25		QM-07
Nickel	18.0	0.468	"	46.8	1.50	35.4	75-125	2.12	25		QM-07
Selenium	2.62	0.260	"	4.68	ND	56.0	75-125	26.9	25		QM-07
Silver	1.87	0.0234	"	2.34	0.0159	79.1	75-125	7.09	25		
Zinc	22.7	0.468	"	46.8	5.45	36.8	75-125	2.70	25		QM-07

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Hunt 8-60 17A

Project Number: [none]
Project Manager: Costin McQueen

Reported:
05/03/23 14:05

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGD0930 - 3060A Mod

Blank (BGD0930-BLK1)

Prepared & Analyzed: 04/27/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGD0930-BS1)

Prepared & Analyzed: 04/27/23

Chromium, Hexavalent 21.2 0.30 mg/kg wet 25.0 85.0 80-120

Duplicate (BGD0930-DUP1)

Source: 2304569-01

Prepared & Analyzed: 04/27/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGD0930-MS1)

Source: 2304569-01

Prepared & Analyzed: 04/27/23

Chromium, Hexavalent 22.3 0.30 mg/kg dry 27.8 ND 80.2 75-125

Matrix Spike Dup (BGD0930-MSD1)

Source: 2304569-01

Prepared & Analyzed: 04/27/23

Chromium, Hexavalent 23.6 0.30 mg/kg dry 27.8 ND 84.8 75-125 5.58 20

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Hunt 8-60 17A

Project Number: [none]
Project Manager: Costin McQueen

Reported:
05/03/23 14:05

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BGD0945 - General Preparation

Blank (BGD0945-BLK1)

Prepared: 04/27/23 Analyzed: 05/02/23

Calcium	ND	0.0500	mg/L wet						
Magnesium	ND	0.0500	"						
Sodium	ND	0.0500	"						

LCS (BGD0945-BS1)

Prepared: 04/27/23 Analyzed: 05/02/23

Calcium	5.23	0.0500	mg/L wet	5.00	105	70-130
Magnesium	4.73	0.0500	"	5.00	94.7	70-130
Sodium	5.00	0.0500	"	5.00	100	70-130

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Civitas Resources
 650 Southgate Drive
 Windsor CO, 80550

Project: Hunt 8-60 17A

Project Number: [none]
 Project Manager: Costin McQueen

Reported:
 05/03/23 14:05

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
Summit Scientific

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

Batch BGD0973 - General Preparation

Duplicate (BGD0973-DUP1)

Source: 2303710-19

Prepared & Analyzed: 04/28/23

% Solids	80.8		%		83.4			3.25	20	
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Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Hunt 8-60 17A

Project Number: [none]
Project Manager: Costin McQueen

Reported:
05/03/23 14:05

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BGE0022 - General Preparation

Blank (BGE0022-BLK1)

Prepared & Analyzed: 05/01/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGE0022-BS1)

Prepared & Analyzed: 05/01/23

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 101 95-105

Duplicate (BGE0022-DUP1)

Source: 2304522-01

Prepared & Analyzed: 05/01/23

Specific Conductance (EC) 0.300 0.0100 mmhos/cm 0.304 1.06 20

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Hunt 8-60 17A

Project Number: [none]
Project Manager: Costin McQueen

Reported:
05/03/23 14:05

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BGE0023 - General Preparation

LCS (BGE0023-BS1)

Prepared & Analyzed: 05/01/23

pH	9.02	pH Units	9.18	98.3	95-105
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Duplicate (BGE0023-DUP1)

Source: 2304522-01

Prepared & Analyzed: 05/01/23

pH	6.76	pH Units	6.51	3.77	20
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Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Hunt 8-60 17A

Project Number: [none]
Project Manager: Costin McQueen

Reported:
05/03/23 14:05

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.
- S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- 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