

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 11, 2023

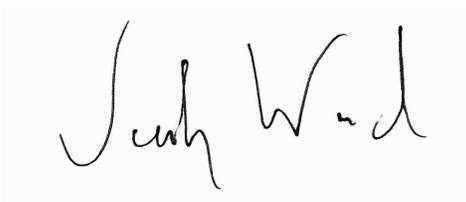
Costin McQueen
Civitas Resources
650 Southgate Drive
Windsor, CO 80550

RE: Trott 7-L

Work Order #2312008

Enclosed are the results of analyses for samples received by Summit Scientific on 12/01/23 16:41. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury
President



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Trott 7-L
Project Number: 8E-10-9N
Project Manager: Costin McQueen

Reported:
12/11/23 10:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WC-01	2312008-01	Soil	12/01/23 14:30	12/01/23 16:41
WC-BK01	2312008-02	Soil	12/01/23 14:45	12/01/23 16:41

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

Lab ID	Page	of
2312008		1

Client: Civitas Resources		Send Data To:		Send Invoice To:	
Address: 650 Southgate Dr.		Project Manager: Costin McQueen		Company: Civitas Resources	
City/State/Zip: Windsor Co, 80550		E-Mail: cmcqueen@civiresources.com		Project Name/Location: TROTT 8E-10-9N	
Phone: 720-315-8934		Project Name: TROTT		APE#: CIC: COX 2567	
Sampler Name: Howard Arnold		Project Number: 8E-10-9N		PO/Billing Codes: M/M: 8520, 162	
				Contact: Costin McQueen	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested					Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Full	915	PH	SAR		EC	Baron
1	WC-01	12-1-23	14:30	2			X			X			X						
2	WC-BK01	12-1-23	14:45	2			X			X			X	X	X	X	X		
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: Howard Arnold	Date/Time: 12/23/23 1641	Received by: [Signature]	Date/Time: 12/23/23 1641	TAT Business Days	Field DO	Notes:
Relinquished by: [Signature]	Date/Time: 12/23/23 1641	Received by: [Signature]	Date/Time: 12/23/23 1641	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: 10.7	Corrected Temperature: [Signature]	IR gun #: 1	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2312008

Client: ComAir

Client Project ID: Trott

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"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ZCE
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 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"/>	
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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no time stamps
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.

AS

Custodian Printed Name

12/1/23

Date/Time

11/11/23



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Trott 7-L
Project Number: 8E-10-9N
Project Manager: Costin McQueen

Reported:
12/11/23 10:27

WC-01
2312008-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/01/23 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	2.0	0.20	mg/kg	100	BGL0057	12/01/23	12/01/23	EPA 8260B	
Toluene	17	0.50	"	"	"	"	"	"	
Ethylbenzene	11	0.50	"	"	"	"	"	"	
Xylenes (total)	40	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	17	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	3.3	0.50	"	"	"	"	"	"	
Naphthalene	3.4	0.38	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1800	50	"	"	"	"	"	"	

Date Sampled: **12/01/23 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0472	118 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0377	94.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0506	127 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/01/23 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	4300	50	mg/kg	1	BGL0055	12/01/23	12/02/23	EPA 8015M	
C28-C36 (ORO)	570	50	"	"	"	"	"	"	

Date Sampled: **12/01/23 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	4.56	36.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PAH by EPA Method 8270D SIM

Date Sampled: **12/01/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0799	0.00500	mg/kg	1	BGL0075	12/04/23	12/05/23	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	0.161	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0159	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.250	"	50	"	"	12/08/23	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	1	"	"	12/05/23	"	
Pyrene	0.118	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	18.8	0.250	"	50	"	"	12/08/23	"	E
2-Methylnaphthalene	40.2	0.250	"	"	"	"	"	"	E

Date Sampled: **12/01/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0226	67.9 %	40-150		"	"	12/05/23	"	
Surrogate: Fluoranthene-d10	0.0209	62.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/01/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGL0068	12/05/23	12/06/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/01/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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WC-01
2312008-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.10	0.200	mg/kg dry	1	BGL0095	12/04/23	12/06/23	EPA 6020B	
Barium	64.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.13	0.400	"	"	"	"	"	"	
Lead	4.16	0.200	"	"	"	"	"	"	
Nickel	3.16	0.400	"	"	"	"	"	"	
Silver	0.0217	0.0200	"	"	"	"	"	"	
Zinc	11.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/01/23 14:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGL0091	12/04/23	12/05/23	EPA 7196A	

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

Date Sampled: 12/01/23 14:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	18.7	0.0500	mg/L dry	1	BGL0058	12/01/23	12/06/23	EPA 6020B	
Magnesium	3.77	0.0500	"	"	"	"	"	"	
Sodium	377	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/01/23 14:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	20.8	0.00100	units	1	BGL0210	12/06/23	12/06/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/01/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.1		%	1	BGL0090	12/04/23	12/04/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/01/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.203	0.0100	mmhos/cm	1	BGL0116	12/04/23	12/04/23	EPA 120.1	

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

Date Sampled: **12/01/23 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.08		pH Units	1	BGL0115	12/04/23	12/04/23	EPA 9045D	

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WC-BK01
2312008-02 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/01/23 14:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGL0068	12/05/23	12/06/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/01/23 14:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.13	0.200	mg/kg dry	1	BGL0095	12/04/23	12/06/23	EPA 6020B	
Barium	145	0.400	"	"	"	"	"	"	
Cadmium	0.329	0.200	"	"	"	"	"	"	
Copper	4.52	0.400	"	"	"	"	"	"	
Lead	11.6	0.200	"	"	"	"	"	"	
Nickel	4.84	0.400	"	"	"	"	"	"	
Silver	0.0672	0.0200	"	"	"	"	"	"	
Zinc	18.1	0.400	"	"	"	"	"	"	
Selenium	0.429	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **12/01/23 14:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGL0091	12/04/23	12/05/23	EPA 7196A	

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

Date Sampled: **12/01/23 14:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	38.4	0.0500	mg/L dry	1	BGL0058	12/01/23	12/06/23	EPA 6020B	
Magnesium	8.12	0.0500	"	"	"	"	"	"	
Sodium	7.27	0.0500	"	"	"	"	"	"	

Calculated Analysis

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Project: Trott 7-L
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Reported:
12/11/23 10:27

WC-BK01
2312008-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **12/01/23 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.278	0.00100	units	1	BGL0210	12/06/23	12/06/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/01/23 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.8		%	1	BGL0090	12/04/23	12/04/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/01/23 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.252	0.0100	mmhos/cm	1	BGL0116	12/04/23	12/04/23	EPA 120.1	

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

Date Sampled: **12/01/23 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.12		pH Units	1	BGL0115	12/04/23	12/04/23	EPA 9045D	

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Project: Trott 7-L
Project Number: 8E-10-9N
Project Manager: Costin McQueen

Reported:
12/11/23 10:27

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 BGL0057 - EPA 5030 Soil MS

Blank (BGL0057-BLK1)

Prepared & Analyzed: 12/01/23

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>	0.0477		"	0.0400		119	50-150				
<i>Surrogate: Toluene-d8</i>	0.0389		"	0.0400		97.3	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0444		"	0.0400		111	50-150				

LCS (BGL0057-BS1)

Prepared & Analyzed: 12/01/23

Benzene	0.0857	0.0020	mg/kg	0.100		85.7	70-130				
Toluene	0.0849	0.0050	"	0.100		84.9	70-130				
Ethylbenzene	0.106	0.0050	"	0.100		106	70-130				
m,p-Xylene	0.204	0.010	"	0.200		102	70-130				
o-Xylene	0.0973	0.0050	"	0.100		97.3	70-130				
1,2,4-Trimethylbenzene	0.101	0.0050	"	0.100		101	70-130				
1,3,5-Trimethylbenzene	0.102	0.0050	"	0.100		102	70-130				
Naphthalene	0.102	0.0038	"	0.100		102	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0452		"	0.0400		113	50-150				
<i>Surrogate: Toluene-d8</i>	0.0382		"	0.0400		95.6	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0418		"	0.0400		105	50-150				

LCS Dup (BGL0057-BSD1)

Prepared & Analyzed: 12/01/23

Benzene	0.0858	0.0020	mg/kg	0.100		85.8	70-130	0.175	20		
Toluene	0.0845	0.0050	"	0.100		84.5	70-130	0.496	20		
Ethylbenzene	0.104	0.0050	"	0.100		104	70-130	1.46	20		
m,p-Xylene	0.200	0.010	"	0.200		100	70-130	1.66	20		
o-Xylene	0.0969	0.0050	"	0.100		96.9	70-130	0.402	20		
1,2,4-Trimethylbenzene	0.100	0.0050	"	0.100		100	70-130	0.717	20		
1,3,5-Trimethylbenzene	0.0997	0.0050	"	0.100		99.7	70-130	2.11	20		
Naphthalene	0.106	0.0038	"	0.100		106	70-130	3.73	20		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0452		"	0.0400		113	50-150				
<i>Surrogate: Toluene-d8</i>	0.0382		"	0.0400		95.5	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0418		"	0.0400		105	50-150				

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Project Number: 8E-10-9N
Project Manager: Costin McQueen

Reported:
12/11/23 10:27

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 BGL0055 - EPA 3550A

Blank (BGL0055-BLK1)

Prepared & Analyzed: 12/01/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	16.8		"	12.5	134	30-150					

LCS (BGL0055-BS1)

Prepared & Analyzed: 12/01/23

C10-C28 (DRO)	498	50	mg/kg	500	99.7	70-130					
Surrogate: <i>o</i> -Terphenyl	17.3		"	12.5	138	30-150					

LCS Dup (BGL0055-BSD1)

Prepared & Analyzed: 12/01/23

C10-C28 (DRO)	553	50	mg/kg	500	111	70-130	10.4	20			
Surrogate: <i>o</i> -Terphenyl	17.8		"	12.5	142	30-150					

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Project Manager: Costin McQueen

Reported:
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PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGL0075 - EPA 5030 Soil MS

Blank (BGL0075-BLK1)

Prepared & Analyzed: 12/04/23

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>0.0275</i>		"	<i>0.0333</i>		<i>82.5</i>		<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0332</i>		"	<i>0.0333</i>		<i>99.7</i>		<i>40-150</i>			

LCS (BGL0075-BS1)

Prepared & Analyzed: 12/04/23

Acenaphthene	0.0230	0.00500	mg/kg	0.0333	68.9	31-137
Anthracene	0.0234	0.00500	"	0.0333	70.3	30-120
Benzo (a) anthracene	0.0218	0.00500	"	0.0333	65.5	30-120
Benzo (a) pyrene	0.0226	0.00500	"	0.0333	67.8	30-120
Benzo (b) fluoranthene	0.0233	0.00500	"	0.0333	69.8	30-120
Benzo (k) fluoranthene	0.0238	0.00500	"	0.0333	71.3	30-120
Chrysene	0.0228	0.00500	"	0.0333	68.4	30-120
Dibenz (a,h) anthracene	0.0194	0.00500	"	0.0333	58.1	30-120
Fluoranthene	0.0225	0.00500	"	0.0333	67.4	30-120
Fluorene	0.0231	0.00500	"	0.0333	69.2	30-120
Indeno (1,2,3-cd) pyrene	0.0176	0.00500	"	0.0333	52.8	30-120
Pyrene	0.0230	0.00500	"	0.0333	69.1	35-142
1-Methylnaphthalene	0.0229	0.00500	"	0.0333	68.8	35-142
2-Methylnaphthalene	0.0181	0.00500	"	0.0333	54.4	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0333</i>		"	<i>0.0333</i>	<i>99.9</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0317</i>		"	<i>0.0333</i>	<i>95.1</i>	<i>40-150</i>

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Trott 7-L
Project Number: 8E-10-9N
Project Manager: Costin McQueen

Reported:
12/11/23 10:27

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 BGL0075 - EPA 5030 Soil MS

Matrix Spike (BGL0075-MS1)	Source: 2311564-01			Prepared & Analyzed: 12/04/23						
Acenaphthene	0.0186	0.00500	mg/kg	0.0333	ND	55.8	31-137			
Anthracene	0.0180	0.00500	"	0.0333	ND	54.1	30-120			
Benzo (a) anthracene	0.0204	0.00500	"	0.0333	ND	61.3	30-120			
Benzo (a) pyrene	0.0191	0.00500	"	0.0333	ND	57.3	30-120			
Benzo (b) fluoranthene	0.0194	0.00500	"	0.0333	ND	58.1	30-120			
Benzo (k) fluoranthene	0.0193	0.00500	"	0.0333	ND	57.8	30-120			
Chrysene	0.0197	0.00500	"	0.0333	ND	59.0	30-120			
Dibenz (a,h) anthracene	0.0167	0.00500	"	0.0333	ND	50.2	30-120			
Fluoranthene	0.0181	0.00500	"	0.0333	ND	54.4	30-120			
Fluorene	0.0185	0.00500	"	0.0333	ND	55.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0216	0.00500	"	0.0333	ND	64.7	30-120			
Pyrene	0.0231	0.00500	"	0.0333	ND	69.2	35-142			
1-Methylnaphthalene	0.0189	0.00500	"	0.0333	ND	56.7	15-130			
2-Methylnaphthalene	0.0139	0.00500	"	0.0333	ND	41.8	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0257</i>		<i>"</i>	<i>0.0333</i>		<i>77.1</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0257</i>		<i>"</i>	<i>0.0333</i>		<i>77.0</i>	<i>40-150</i>			

Matrix Spike Dup (BGL0075-MSD1)	Source: 2311564-01			Prepared & Analyzed: 12/04/23						
Acenaphthene	0.0327	0.00500	mg/kg	0.0333	ND	98.1	31-137	55.1	30	QR-02
Anthracene	0.0296	0.00500	"	0.0333	ND	88.8	30-120	48.6	30	QR-02
Benzo (a) anthracene	0.0344	0.00500	"	0.0333	ND	103	30-120	51.0	30	QR-02
Benzo (a) pyrene	0.0336	0.00500	"	0.0333	ND	101	30-120	55.0	30	QR-02
Benzo (b) fluoranthene	0.0334	0.00500	"	0.0333	ND	100	30-120	53.0	30	QR-02
Benzo (k) fluoranthene	0.0258	0.00500	"	0.0333	ND	77.5	30-120	29.1	30	
Chrysene	0.0198	0.00500	"	0.0333	ND	59.4	30-120	0.627	30	
Dibenz (a,h) anthracene	0.0296	0.00500	"	0.0333	ND	88.9	30-120	55.6	30	QR-02
Fluoranthene	0.0272	0.00500	"	0.0333	ND	81.6	30-120	40.0	30	QR-02
Fluorene	0.0278	0.00500	"	0.0333	ND	83.4	30-120	40.2	30	QR-02
Indeno (1,2,3-cd) pyrene	0.0322	0.00500	"	0.0333	ND	96.5	30-120	39.5	30	QR-02
Pyrene	0.0325	0.00500	"	0.0333	ND	97.5	35-142	34.0	30	QR-02
1-Methylnaphthalene	0.0221	0.00500	"	0.0333	ND	66.3	15-130	15.6	50	
2-Methylnaphthalene	0.0159	0.00500	"	0.0333	ND	47.7	15-130	13.0	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0143</i>		<i>"</i>	<i>0.0333</i>		<i>42.8</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0318</i>		<i>"</i>	<i>0.0333</i>		<i>95.3</i>	<i>40-150</i>			

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Trott 7-L
Project Number: 8E-10-9N
Project Manager: Costin McQueen

Reported:
12/11/23 10:27

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 BGL0068 - EPA 3050B

Blank (BGL0068-BLK1)

Prepared: 12/04/23 Analyzed: 12/06/23

Boron ND 2.00 mg/L

LCS (BGL0068-BS1)

Prepared: 12/04/23 Analyzed: 12/06/23

Boron 4.83 2.00 mg/L 5.00 96.7 80-120

Duplicate (BGL0068-DUP1)

Source: 2311500-01

Prepared: 12/04/23 Analyzed: 12/06/23

Boron 1.45 2.00 mg/L 1.47 1.22 20

Matrix Spike (BGL0068-MS1)

Source: 2311500-01

Prepared: 12/04/23 Analyzed: 12/06/23

Boron 5.81 2.00 mg/L 5.00 1.47 86.8 75-125

Matrix Spike Dup (BGL0068-MSD1)

Source: 2311500-01

Prepared: 12/04/23 Analyzed: 12/06/23

Boron 5.87 2.00 mg/L 5.00 1.47 88.0 75-125 1.02 25

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Trott 7-L
Project Number: 8E-10-9N
Project Manager: Costin McQueen

Reported:
12/11/23 10:27

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGL0095 - EPA 3050B

Blank (BGL0095-BLK1)

Prepared: 12/04/23 Analyzed: 12/06/23

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	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

LCS (BGL0095-BS1)

Prepared: 12/04/23 Analyzed: 12/06/23

Arsenic	46.6	0.200	mg/kg wet	40.0	116	80-120
Barium	42.8	0.400	"	40.0	107	80-120
Cadmium	2.25	0.200	"	2.00	113	80-120
Copper	46.4	0.400	"	40.0	116	80-120
Lead	20.6	0.200	"	20.0	103	80-120
Nickel	45.7	0.400	"	40.0	114	80-120
Silver	2.18	0.0200	"	2.00	109	80-120
Zinc	44.7	0.400	"	40.0	112	80-120
Selenium	4.25	0.260	"	4.00	106	80-120

Duplicate (BGL0095-DUP1)

Source: 2311509-03

Prepared: 12/04/23 Analyzed: 12/06/23

Arsenic	1.81	0.200	mg/kg dry	1.39	25.9	20	QM-01
Barium	94.1	0.400	"	85.1	10.0	20	
Cadmium	0.144	0.200	"	0.122	16.4	20	
Copper	2.36	0.400	"	2.20	7.27	20	
Lead	5.38	0.200	"	6.03	11.4	20	
Nickel	2.42	0.400	"	2.40	0.868	20	
Silver	0.0258	0.0200	"	0.0249	3.51	20	
Zinc	10.2	0.400	"	10.2	0.296	20	
Selenium	0.228	0.260	"	0.220	3.37	20	

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Trott 7-L
Project Number: 8E-10-9N
Project Manager: Costin McQueen

Reported:
12/11/23 10:27

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 BGL0095 - EPA 3050B

Matrix Spike (BGL0095-MS1)	Source: 2311509-03			Prepared: 12/04/23		Analyzed: 12/06/23					
Arsenic	18.7	0.200	mg/kg dry	44.5	1.39	39.0	75-125				QM-07
Barium	142	0.400	"	44.5	85.1	127	75-125				QM-07
Cadmium	2.48	0.200	"	2.22	0.122	106	75-125				
Copper	19.6	0.400	"	44.5	2.20	39.2	75-125				QM-07
Lead	25.5	0.200	"	22.2	6.03	87.7	75-125				
Nickel	20.0	0.400	"	44.5	2.40	39.6	75-125				QM-07
Silver	2.30	0.0200	"	2.22	0.0249	102	75-125				
Zinc	29.7	0.400	"	44.5	10.2	43.8	75-125				QM-07
Selenium	5.72	0.260	"	4.45	0.220	124	75-125				

Matrix Spike Dup (BGL0095-MSD1)	Source: 2311509-03			Prepared: 12/04/23		Analyzed: 12/06/23					
Arsenic	19.1	0.200	mg/kg dry	44.5	1.39	39.8	75-125	1.90	25		QM-07
Barium	144	0.400	"	44.5	85.1	133	75-125	1.93	25		QM-07
Cadmium	2.52	0.200	"	2.22	0.122	108	75-125	1.33	25		
Copper	19.9	0.400	"	44.5	2.20	39.9	75-125	1.69	25		QM-07
Lead	26.0	0.200	"	22.2	6.03	89.9	75-125	1.90	25		
Nickel	20.5	0.400	"	44.5	2.40	40.7	75-125	2.28	25		QM-07
Silver	2.31	0.0200	"	2.22	0.0249	103	75-125	0.251	25		
Zinc	29.8	0.400	"	44.5	10.2	44.1	75-125	0.467	25		QM-07
Selenium	5.96	0.260	"	4.45	0.220	129	75-125	4.11	25		QM-07

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Trott 7-L
Project Number: 8E-10-9N
Project Manager: Costin McQueen

Reported:
12/11/23 10:27

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGL0091 - 3060A Mod

Blank (BGL0091-BLK1)

Prepared: 12/04/23 Analyzed: 12/05/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGL0091-BS1)

Prepared: 12/04/23 Analyzed: 12/05/23

Chromium, Hexavalent 25.1 0.30 mg/kg wet 25.0 100 80-120

Duplicate (BGL0091-DUP1)

Source: 2311193-02

Prepared: 12/04/23 Analyzed: 12/05/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGL0091-MS1)

Source: 2311193-02

Prepared: 12/04/23 Analyzed: 12/05/23

Chromium, Hexavalent 27.3 0.30 mg/kg dry 26.5 ND 103 75-125

Matrix Spike Dup (BGL0091-MSD1)

Source: 2311193-02

Prepared: 12/04/23 Analyzed: 12/05/23

Chromium, Hexavalent 27.1 0.30 mg/kg dry 26.5 ND 102 75-125 0.585 20

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Trott 7-L
Project Number: 8E-10-9N
Project Manager: Costin McQueen

Reported:
12/11/23 10:27

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

Summit Scientific

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

Batch BGL0058 - General Preparation

Blank (BGL0058-BLK1)

Prepared: 12/01/23 Analyzed: 12/06/23

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

LCS (BGL0058-BS1)

Prepared: 12/01/23 Analyzed: 12/06/23

Calcium	5.26	0.0500	mg/L wet	5.00		105	70-130			
Magnesium	5.08	0.0500	"	5.00		102	70-130			
Sodium	4.59	0.0500	"	5.00		91.9	70-130			

Summit Scientific

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Civitas Resources
 650 Southgate Drive
 Windsor CO, 80550

Project: Trott 7-L
 Project Number: 8E-10-9N
 Project Manager: Costin McQueen

Reported:
 12/11/23 10:27

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

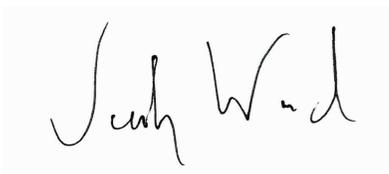
Summit Scientific

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

Batch BGL0090 - General Preparation

Duplicate (BGL0090-DUP1)		Source: 2311193-02		Prepared & Analyzed: 12/04/23							
% Solids	93.1		%		94.2				1.16	20	

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Trott 7-L
Project Number: 8E-10-9N
Project Manager: Costin McQueen

Reported:
12/11/23 10:27

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 BGL0116 - General Preparation

Blank (BGL0116-BLK1)

Prepared & Analyzed: 12/04/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGL0116-BS1)

Prepared & Analyzed: 12/04/23

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 102 95-105

Duplicate (BGL0116-DUP1)

Source: 2311393-01

Prepared & Analyzed: 12/04/23

Specific Conductance (EC) 0.597 0.0100 mmhos/cm 0.603 0.933 20

Summit Scientific



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Civitas Resources
 650 Southgate Drive
 Windsor CO, 80550

Project: Trott 7-L
 Project Number: 8E-10-9N
 Project Manager: Costin McQueen

Reported:
 12/11/23 10:27

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 BGL0115 - General Preparation

LCS (BGL0115-BS1)

Prepared & Analyzed: 12/04/23

pH	9.14	pH Units	9.18	99.6	95-105
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Duplicate (BGL0115-DUP1)

Source: 2311393-01

Prepared & Analyzed: 12/04/23

pH	8.30	pH Units	8.41	1.32	20
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Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Trott 7-L
Project Number: 8E-10-9N
Project Manager: Costin McQueen

Reported:
12/11/23 10:27

Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- 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.
- QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- 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