

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

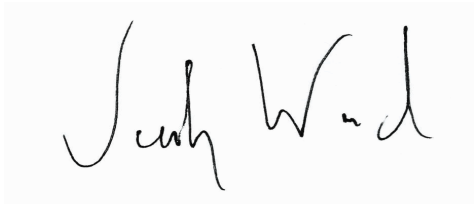
December 11, 2023

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 black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

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		

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		AFE#: CIG: COX 2567	
Sampler Name: Howard Arnold		Project Number: 8E-10-9N		PO/Billing Codes: M/V: 8520, 162	
				Contact: Costin McQueen	

Sample Name: <u>Private - 441010</u>					Preservative				Matrix			Analysis Requested						Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other _____	Water	Soil	Air-Canister #	Other _____	Full 915	915 Metals	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:	Date/Time:	Received by:	Date/Time:	TAT Business Days	Field DO	Notes:
Howard Arnold	12123 1641			Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
87	12123 1641		12123 1641	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 10.7	Corrected Temperature	IR gun #:		HNO3 lot #:		

S₂

Sample Receipt Checklist

S2 Work Order# 2312008Client: ComAirClient Project ID: TrottShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐

Airbill #: _____

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Matrix (Check all that apply)

Air ☐Soil/Solid ☒Water ☐Other ☐

Temp (°C)

10.7

Thermometer #

1

	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"/>	Same day
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.

Custodian Printed Name

Date/Time

AS

12/1/23



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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WC-01
2312008-01 (Soil)

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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**

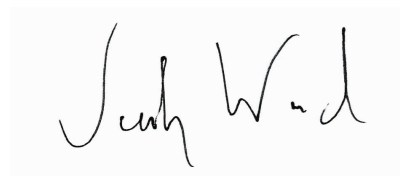
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGL0068	12/05/23	12/06/23	EPA 6020B	

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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Windsor CO, 80550

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

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WC-01
2312008-01 (Soil)

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Total Metals by EPA 6020B

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	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

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	"							
Surrogate: 1,2-Dichloroethane-d4	0.0477		"	0.0400		119	50-150			
Surrogate: Toluene-d8	0.0389		"	0.0400		97.3	50-150			
Surrogate: 4-Bromofluorobenzene	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			
Surrogate: 1,2-Dichloroethane-d4	0.0452		"	0.0400		113	50-150			
Surrogate: Toluene-d8	0.0382		"	0.0400		95.6	50-150			
Surrogate: 4-Bromofluorobenzene	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	
Surrogate: 1,2-Dichloroethane-d4	0.0452		"	0.0400		113	50-150			
Surrogate: Toluene-d8	0.0382		"	0.0400		95.5	50-150			
Surrogate: 4-Bromofluorobenzene	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	Reporting			Spike	Source	%REC		RPD		
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

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: o-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: o-Terphenyl	17.3		"	12.5		138	30-150			

LCS Dup (BGL0055-BS1)

Prepared & Analyzed: 12/01/23

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

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

Summit Scientific

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

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	"							
Surrogate: 2-Methylnaphthalene-d10	0.0275		"	0.0333		82.5	40-150			
Surrogate: Fluoranthene-d10	0.0332		"	0.0333		99.7	40-150			

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			
Surrogate: 2-Methylnaphthalene-d10	0.0333		"	0.0333		99.9	40-150			
Surrogate: Fluoranthene-d10	0.0317		"	0.0333		95.1	40-150			

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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 Level	Source		%REC		RPD	
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

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			
Surrogate: 2-Methylnaphthalene-d10	0.0257		"	0.0333		77.1	40-150			
Surrogate: Fluoranthene-d10	0.0257		"	0.0333		77.0	40-150			

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	
Surrogate: 2-Methylnaphthalene-d10	0.0143		"	0.0333		42.8	40-150			
Surrogate: Fluoranthene-d10	0.0318		"	0.0333		95.3	40-150			

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

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

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

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

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	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

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

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

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 Level	Source		%REC		RPD	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

Batch BGL0090 - General Preparation

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

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

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

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 Level	Source Result	%REC		RPD		Notes
		Limit	Units			%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