

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 10, 2024

Costin McQueen
Civitas Resources
650 Southgate Drive
Windsor, CO 80550

RE: Chico 4-65 26-25 PAD

Work Order #2405181

Enclosed are the results of analyses for samples received by Summit Scientific on 05/13/24 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Natalie Tessier For Paul Shrewsbury
President



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Chico 4-65 26-25 PAD

Project Number: [none]
Project Manager: Costin McQueen

Reported:
06/10/24 10:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WC-01	2405181-01	Soil	05/10/24 13:48	05/13/24 16:30
WC-BK01	2405181-02	Soil	05/10/24 14:06	05/13/24 16:30



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

Lab ID	Page / of /
2405101	

Client: Civitas Resources	Project Manager: Costin McQueen	Company: Civitas Resources
Address: 650 Southgate Dr.	E-Mail: cmcqueen@civiresources.com	Project Name/Location: Chico 4-65 26-25 Pad
City/State/Zip: Windsor Co, 80550		AFE#: CIC: P1147
Phone: 720-315-8934	Project Name: Chico 4-65 26-25 PAD	PO/Billing Codes: M/M: 8520.162
Sampler Name: Howard Holmold	Project Number:	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	Merals	PH		SAR	EC	Boron
1	VVC-01	5/10/24	13:48	2									X							
2	VVC-BK 01	5/10/24	14:06	2									X	X	X	X	X			
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: Howard Holmold	Date/Time: 5/13/24 9:10am	Received by: [Signature]	Date/Time: 5/13/24 10:30	TAT Business Days	Field DO	Notes:
Relinquished by: SZ	Date/Time: 5/13/24 10:30	Received by: [Signature]	Date/Time: 5/13/24 10:30	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: 79	Corrected Temperature: 8	IR gun #: 1	HNO3 lot #:	Standard	Field Turb.	

S₂

Sample Receipt Checklist

S2 Work Order# 2405181

Client: ComAd

Client Project ID: Chico 446 2026 Pad

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"/>	outside
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 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.

SN
Custodian Printed Name

5/13/24
Date/Time



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Chico 4-65 26-25 PAD

Project Number: [none]
Project Manager: Costin McQueen

Reported:
06/10/24 10:52

WC-01
2405181-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/10/24 13:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	0.024	0.0020		mg/kg	1	BHE0418	05/13/24	05/13/24	EPA 8260B	
Toluene	1.1	0.0050		"	"	"	"	"	"	E
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	3.9	0.50		"	"	"	"	"	"	

Date Sampled: **05/10/24 13:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0394	98.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0394	98.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0386	96.4 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/10/24 13:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHE0420	05/13/24	05/13/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **05/10/24 13:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	4.84	38.7 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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2405181-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **05/10/24 13:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHE0426	05/14/24	05/14/24	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: **05/10/24 13:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0235	70.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0257	77.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/10/24 13:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	2.44	2.00	mg/L	1	BHE0413	05/13/24	06/06/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/10/24 13:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.86	0.200	mg/kg dry	1	BHE0445	05/14/24	05/16/24	EPA 6020B
Barium	124	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	14.8	0.400	"	"	"	"	"	"
Lead	6.91	0.200	"	"	"	"	"	"
Nickel	12.6	0.400	"	"	"	"	"	"
Silver	0.0345	0.0200	"	"	"	"	"	"
Zinc	44.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/10/24 13:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0438	05/14/24	05/14/24	EPA 7196A	

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

Date Sampled: **05/10/24 13:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	88.2	0.0500	mg/L dry	1	BHE0422	05/13/24	05/15/24	EPA 6020B	
Magnesium	14.1	0.0500	"	"	"	"	"	"	
Sodium	935	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/10/24 13:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	24.4	0.00100	units	1	BHE0505	05/16/24	05/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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WC-01
2405181-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/10/24 13:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	82.0			%	1	BHE0425	05/14/24	05/14/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/10/24 13:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	5.06	0.0100		mmhos/cm	1	BHE0450	05/14/24	05/14/24	EPA 120.1	

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

Date Sampled: **05/10/24 13:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.05			pH Units	1	BHE0449	05/14/24	05/14/24	EPA 9045D	

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WC-BK01
2405181-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/10/24 14:06**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHE0413	05/13/24	06/06/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/10/24 14:06**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	1.59	0.200		mg/kg dry	1	BHE0445	05/14/24	05/16/24	EPA 6020B	
Barium	69.8	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	5.60	0.400		"	"	"	"	"	"	
Lead	7.14	0.200		"	"	"	"	"	"	
Nickel	4.36	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	19.6	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/10/24 14:06**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHE0438	05/14/24	05/14/24	EPA 7196A	

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

Date Sampled: **05/10/24 14:06**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	65.9	0.0500		mg/L dry	1	BHE0422	05/13/24	05/15/24	EPA 6020B	
Magnesium	14.0	0.0500		"	"	"	"	"	"	
Sodium	0.216	0.0500		"	"	"	"	"	"	

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WC-BK01
2405181-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/10/24 14:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.00631	0.00100	units	1	BHE0505	05/16/24	05/16/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/10/24 14:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.7		%	1	BHE0425	05/14/24	05/14/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/10/24 14:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0506	0.0100	mmhos/cm	1	BHE0450	05/14/24	05/14/24	EPA 120.1	

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

Date Sampled: **05/10/24 14:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.25		pH Units	1	BHE0449	05/14/24	05/14/24	EPA 9045D	

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Project: Chico 4-65 26-25 PAD

Project Number: [none]
Project Manager: Costin McQueen

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06/10/24 10:52

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 BHE0418 - EPA 5030 Soil MS

Blank (BHE0418-BLK1)

Prepared: 05/13/24 Analyzed: 05/14/24

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	0.0388		"	0.0400		97.0	50-150			
Surrogate: Toluene-d8	0.0389		"	0.0400		97.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0379		"	0.0400		94.7	50-150			

LCS (BHE0418-BS1)

Prepared: 05/13/24 Analyzed: 05/14/24

Benzene	0.104	0.0020	mg/kg	0.100		104	70-130			
Toluene	0.100	0.0050	"	0.100		100	70-130			
Ethylbenzene	0.104	0.0050	"	0.100		104	70-130			
m,p-Xylene	0.213	0.010	"	0.200		107	70-130			
o-Xylene	0.108	0.0050	"	0.100		108	70-130			
1,2,4-Trimethylbenzene	0.101	0.0050	"	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.101	0.0050	"	0.100		101	70-130			
Naphthalene	0.0999	0.0038	"	0.100		99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0396		"	0.0400		98.9	50-150			
Surrogate: Toluene-d8	0.0389		"	0.0400		97.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0376		"	0.0400		93.9	50-150			

Matrix Spike (BHE0418-MS1)

Source: 2405181-01

Prepared: 05/13/24 Analyzed: 05/14/24

Benzene	0.145	0.0020	mg/kg	0.100	0.0239	121	70-130			
Toluene	2.48	0.0050	"	0.100	1.15	NR	70-130			QM-05
Ethylbenzene	0.0931	0.0050	"	0.100	ND	93.1	70-130			
m,p-Xylene	0.190	0.010	"	0.200	ND	94.8	70-130			
o-Xylene	0.0958	0.0050	"	0.100	ND	95.8	70-130			
1,2,4-Trimethylbenzene	0.0830	0.0050	"	0.100	ND	83.0	70-130			
1,3,5-Trimethylbenzene	0.0831	0.0050	"	0.100	ND	83.1	70-130			
Naphthalene	0.0778	0.0038	"	0.100	ND	77.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0393		"	0.0400		98.2	50-150			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0376		"	0.0400		94.0	50-150			

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Project Number: [none]
Project Manager: Costin McQueen

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHE0418 - EPA 5030 Soil MS

Matrix Spike Dup (BHE0418-MSD1)	Source: 2405181-01			Prepared: 05/13/24 Analyzed: 05/14/24						
Benzene	0.147	0.0020	mg/kg	0.100	0.0239	123	70-130	1.17	30	
Toluene	2.72	0.0050	"	0.100	1.15	NR	70-130	9.19	30	QM-05
Ethylbenzene	0.0922	0.0050	"	0.100	ND	92.2	70-130	0.939	30	
m,p-Xylene	0.187	0.010	"	0.200	ND	93.6	70-130	1.27	30	
o-Xylene	0.0949	0.0050	"	0.100	ND	94.9	70-130	0.976	30	
1,2,4-Trimethylbenzene	0.0798	0.0050	"	0.100	ND	79.8	70-130	3.91	30	
1,3,5-Trimethylbenzene	0.0796	0.0050	"	0.100	ND	79.6	70-130	4.39	30	
Naphthalene	0.0757	0.0038	"	0.100	ND	75.7	70-130	2.81	30	
Surrogate: 1,2-Dichloroethane-d4	0.0393		"	0.0400		98.2	50-150			
Surrogate: Toluene-d8	0.0388		"	0.0400		97.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0373		"	0.0400		93.2	50-150			

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Project: Chico 4-65 26-25 PAD

Project Number: [none]
Project Manager: Costin McQueen

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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 BHE0420 - EPA 3550A

Blank (BHE0420-BLK1)

Prepared: 05/13/24 Analyzed: 05/14/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	10.7		"	12.5		85.9	30-150				

LCS (BHE0420-BS1)

Prepared: 05/13/24 Analyzed: 05/14/24

C10-C28 (DRO)	423	50	mg/kg	500		84.5	70-130				
Surrogate: <i>o</i> -Terphenyl	9.36		"	12.5		74.8	30-150				

Matrix Spike (BHE0420-MS1)

Source: 2405181-01

Prepared: 05/13/24 Analyzed: 05/14/24

C10-C28 (DRO)	462	50	mg/kg	500	ND	92.5	70-130				
Surrogate: <i>o</i> -Terphenyl	7.17		"	12.5		57.4	30-150				

Matrix Spike Dup (BHE0420-MSD1)

Source: 2405181-01

Prepared: 05/13/24 Analyzed: 05/14/24

C10-C28 (DRO)	397	50	mg/kg	500	ND	79.5	70-130	15.1	20		
Surrogate: <i>o</i> -Terphenyl	5.46		"	12.5		43.7	30-150				

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Chico 4-65 26-25 PAD

Project Number: [none]
Project Manager: Costin McQueen

Reported:
06/10/24 10:52

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHE0426 - EPA 5030 Soil MS

Blank (BHE0426-BLK1)

Prepared & Analyzed: 05/14/24

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>0.0355</i>		<i>"</i>	<i>0.0333</i>	<i>106</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0403</i>		<i>"</i>	<i>0.0333</i>	<i>121</i>	<i>40-150</i>				

LCS (BHE0426-BS1)

Prepared & Analyzed: 05/14/24

Acenaphthene	0.0347	0.00500	mg/kg	0.0333	104	31-137				
Anthracene	0.0332	0.00500	"	0.0333	99.7	30-120				
Benzo (a) anthracene	0.0331	0.00500	"	0.0333	99.3	30-120				
Benzo (a) pyrene	0.0309	0.00500	"	0.0333	92.6	30-120				
Benzo (b) fluoranthene	0.0330	0.00500	"	0.0333	99.1	30-120				
Benzo (k) fluoranthene	0.0351	0.00500	"	0.0333	105	30-120				
Chrysene	0.0351	0.00500	"	0.0333	105	30-120				
Dibenz (a,h) anthracene	0.0241	0.00500	"	0.0333	72.3	30-120				
Fluoranthene	0.0343	0.00500	"	0.0333	103	30-120				
Fluorene	0.0332	0.00500	"	0.0333	99.6	30-120				
Indeno (1,2,3-cd) pyrene	0.0238	0.00500	"	0.0333	71.4	30-120				
Pyrene	0.0376	0.00500	"	0.0333	113	35-142				
1-Methylnaphthalene	0.0330	0.00500	"	0.0333	99.1	35-142				
2-Methylnaphthalene	0.0305	0.00500	"	0.0333	91.6	35-142				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0360</i>		<i>"</i>	<i>0.0333</i>	<i>108</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0373</i>		<i>"</i>	<i>0.0333</i>	<i>112</i>	<i>40-150</i>				

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Project: Chico 4-65 26-25 PAD

Project Number: [none]
Project Manager: Costin McQueen

Reported:
06/10/24 10:52

PAH by EPA Method 8270D SIM - Quality Control

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

Batch BHE0426 - EPA 5030 Soil MS

Matrix Spike (BHE0426-MS1)

Source: 2405181-01

Prepared & Analyzed: 05/14/24

Acenaphthene	0.0205	0.00500	mg/kg	0.0333	ND	61.4	31-137			
Anthracene	0.0214	0.00500	"	0.0333	ND	64.2	30-120			
Benzo (a) anthracene	0.0216	0.00500	"	0.0333	ND	64.8	30-120			
Benzo (a) pyrene	0.0193	0.00500	"	0.0333	ND	58.0	30-120			
Benzo (b) fluoranthene	0.0203	0.00500	"	0.0333	ND	60.9	30-120			
Benzo (k) fluoranthene	0.0202	0.00500	"	0.0333	ND	60.5	30-120			
Chrysene	0.0211	0.00500	"	0.0333	ND	63.3	30-120			
Dibenz (a,h) anthracene	0.0143	0.00500	"	0.0333	ND	42.9	30-120			
Fluoranthene	0.0229	0.00500	"	0.0333	ND	68.7	30-120			
Fluorene	0.0244	0.00500	"	0.0333	ND	73.2	30-120			
Indeno (1,2,3-cd) pyrene	0.0155	0.00500	"	0.0333	ND	46.6	30-120			
Pyrene	0.0261	0.00500	"	0.0333	ND	78.3	35-142			
1-Methylnaphthalene	0.0213	0.00500	"	0.0333	ND	64.0	15-130			
2-Methylnaphthalene	0.0208	0.00500	"	0.0333	ND	62.4	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0219		"	0.0333		65.8	40-150			
Surrogate: Fluoranthene-d10	0.0243		"	0.0333		72.9	40-150			

Matrix Spike Dup (BHE0426-MSD1)

Source: 2405181-01

Prepared & Analyzed: 05/14/24

Acenaphthene	0.0183	0.00500	mg/kg	0.0333	ND	54.8	31-137	11.4	30	
Anthracene	0.0181	0.00500	"	0.0333	ND	54.2	30-120	16.9	30	
Benzo (a) anthracene	0.0185	0.00500	"	0.0333	ND	55.4	30-120	15.6	30	
Benzo (a) pyrene	0.0180	0.00500	"	0.0333	ND	54.1	30-120	6.93	30	
Benzo (b) fluoranthene	0.0190	0.00500	"	0.0333	ND	57.1	30-120	6.33	30	
Benzo (k) fluoranthene	0.0189	0.00500	"	0.0333	ND	56.6	30-120	6.67	30	
Chrysene	0.0177	0.00500	"	0.0333	ND	53.0	30-120	17.8	30	
Dibenz (a,h) anthracene	0.0139	0.00500	"	0.0333	ND	41.6	30-120	3.05	30	
Fluoranthene	0.0195	0.00500	"	0.0333	ND	58.4	30-120	16.2	30	
Fluorene	0.0194	0.00500	"	0.0333	ND	58.1	30-120	23.1	30	
Indeno (1,2,3-cd) pyrene	0.0160	0.00500	"	0.0333	ND	47.9	30-120	2.69	30	
Pyrene	0.0217	0.00500	"	0.0333	ND	65.0	35-142	18.5	30	
1-Methylnaphthalene	0.0200	0.00500	"	0.0333	ND	59.9	15-130	6.61	50	
2-Methylnaphthalene	0.0200	0.00500	"	0.0333	ND	60.0	15-130	3.84	50	
Surrogate: 2-Methylnaphthalene-d10	0.0207		"	0.0333		62.0	40-150			
Surrogate: Fluoranthene-d10	0.0209		"	0.0333		62.6	40-150			

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Chico 4-65 26-25 PAD

Project Number: [none]
Project Manager: Costin McQueen

Reported:
06/10/24 10:52

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

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

Batch BHE0413 - EPA 3050B

Blank (BHE0413-BLK1)

Prepared: 05/13/24 Analyzed: 06/06/24

Boron ND 2.00 mg/L

LCS (BHE0413-BS1)

Prepared: 05/13/24 Analyzed: 06/06/24

Boron 4.95 2.00 mg/L 5.00 99.0 80-120

Duplicate (BHE0413-DUP1)

Source: 2405167-01

Prepared: 05/13/24 Analyzed: 06/06/24

Boron 0.105 2.00 mg/L 0.122 14.8 20

Matrix Spike (BHE0413-MS1)

Source: 2405167-01

Prepared: 05/13/24 Analyzed: 06/06/24

Boron 4.76 2.00 mg/L 4.99 0.122 92.9 75-125

Matrix Spike Dup (BHE0413-MSD1)

Source: 2405167-01

Prepared: 05/13/24 Analyzed: 06/06/24

Boron 5.07 2.00 mg/L 4.99 0.122 99.2 75-125 6.48 25

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Project: Chico 4-65 26-25 PAD

Project Number: [none]
Project Manager: Costin McQueen

Reported:
06/10/24 10:52

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 BHE0445 - EPA 3050B

Blank (BHE0445-BLK1)

Prepared: 05/14/24 Analyzed: 05/16/24

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 (BHE0445-BS1)

Prepared: 05/14/24 Analyzed: 05/16/24

Arsenic	38.4	0.200	mg/kg wet	40.0	96.0	80-120
Barium	42.6	0.400	"	40.0	107	80-120
Cadmium	2.15	0.200	"	2.00	107	80-120
Copper	39.5	0.400	"	40.0	98.8	80-120
Lead	21.2	0.200	"	20.0	106	80-120
Nickel	38.5	0.400	"	40.0	96.2	80-120
Silver	2.14	0.0200	"	2.00	107	80-120
Zinc	38.6	0.400	"	40.0	96.5	80-120
Selenium	3.83	0.260	"	4.00	95.8	80-120

Duplicate (BHE0445-DUP1)

Source: 2405181-01

Prepared: 05/14/24 Analyzed: 05/16/24

Arsenic	2.05	0.200	mg/kg dry	1.86	9.46	20
Barium	144	0.400	"	124	14.9	20
Cadmium	0.207	0.200	"	0.181	13.1	20
Copper	17.1	0.400	"	14.8	14.5	20
Lead	8.08	0.200	"	6.91	15.7	20
Nickel	15.1	0.400	"	12.6	18.3	20
Silver	0.0413	0.0200	"	0.0345	17.9	20
Zinc	49.1	0.400	"	44.0	11.0	20
Selenium	ND	0.260	"	ND		20

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Project: Chico 4-65 26-25 PAD

Project Number: [none]
Project Manager: Costin McQueen

Reported:
06/10/24 10:52

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 BHE0445 - EPA 3050B

Matrix Spike (BHE0445-MS1)

Source: 2405181-01

Prepared: 05/14/24 Analyzed: 05/16/24

Arsenic	48.1	0.200	mg/kg dry	48.8	1.86	94.9	75-125			
Barium	181	0.400	"	48.8	124	117	75-125			
Cadmium	2.70	0.200	"	2.44	0.181	103	75-125			
Copper	62.9	0.400	"	48.8	14.8	98.6	75-125			
Lead	30.8	0.200	"	24.4	6.91	97.8	75-125			
Nickel	60.4	0.400	"	48.8	12.6	98.1	75-125			
Silver	2.52	0.0200	"	2.44	0.0345	102	75-125			
Zinc	89.6	0.400	"	48.8	44.0	93.5	75-125			
Selenium	4.10	0.260	"	4.88	ND	84.1	75-125			

Matrix Spike Dup (BHE0445-MSD1)

Source: 2405181-01

Prepared: 05/14/24 Analyzed: 05/16/24

Arsenic	50.1	0.200	mg/kg dry	48.8	1.86	98.9	75-125	3.99	25
Barium	183	0.400	"	48.8	124	121	75-125	1.23	25
Cadmium	2.70	0.200	"	2.44	0.181	103	75-125	0.180	25
Copper	66.1	0.400	"	48.8	14.8	105	75-125	4.92	25
Lead	31.2	0.200	"	24.4	6.91	99.7	75-125	1.47	25
Nickel	63.4	0.400	"	48.8	12.6	104	75-125	4.90	25
Silver	2.53	0.0200	"	2.44	0.0345	102	75-125	0.444	25
Zinc	93.4	0.400	"	48.8	44.0	101	75-125	4.15	25
Selenium	4.14	0.260	"	4.88	ND	85.0	75-125	1.05	25

Post Spike (BHE0445-PS1)

Source: 2405181-01

Prepared: 05/14/24 Analyzed: 05/16/24

Arsenic	109		ug/l	100	3.94	105	75-125		
Barium	377		"	100	262	114	75-125		
Cadmium	5.57		"	5.00	0.384	104	75-125		
Copper	137		"	100	31.4	106	75-125		
Lead	65.2		"	50.0	14.6	101	75-125		
Nickel	133		"	100	26.6	107	75-125		
Silver	5.31		"	5.00	0.0730	105	75-125		
Zinc	200		"	100	93.0	107	75-125		
Selenium	9.63		"	10.0	0.181	94.5	75-125		

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Project: Chico 4-65 26-25 PAD

Project Number: [none]
Project Manager: Costin McQueen

Reported:
06/10/24 10:52

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHE0438 - 3060A Mod

Blank (BHE0438-BLK1)

Prepared & Analyzed: 05/14/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHE0438-BS1)

Prepared & Analyzed: 05/14/24

Chromium, Hexavalent 23.6 0.30 mg/kg wet 25.0 94.2 80-120

Duplicate (BHE0438-DUP1)

Source: 2405167-01

Prepared & Analyzed: 05/14/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHE0438-MS1)

Source: 2405167-01

Prepared & Analyzed: 05/14/24

Chromium, Hexavalent 28.2 0.30 mg/kg dry 28.6 ND 98.6 75-125

Matrix Spike Dup (BHE0438-MSD1)

Source: 2405167-01

Prepared & Analyzed: 05/14/24

Chromium, Hexavalent 28.3 0.30 mg/kg dry 28.6 ND 99.0 75-125 0.405 20

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Project: Chico 4-65 26-25 PAD

Project Number: [none]
Project Manager: Costin McQueen

Reported:
06/10/24 10:52

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 BHE0422 - General Preparation

Blank (BHE0422-BLK1)

Prepared: 05/13/24 Analyzed: 05/15/24

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

LCS (BHE0422-BS1)

Prepared: 05/13/24 Analyzed: 05/15/24

Calcium	5.56	0.0500	mg/L wet	5.00		111	70-130			
Magnesium	5.41	0.0500	"	5.00		108	70-130			
Sodium	5.29	0.0500	"	5.00		106	70-130			

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Project: Chico 4-65 26-25 PAD

Project Number: [none]
 Project Manager: Costin McQueen

Reported:
 06/10/24 10:52

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 BHE0425 - General Preparation

Duplicate (BHE0425-DUP1)		Source: 2405181-01			Prepared & Analyzed: 05/14/24			
% Solids	83.1		%		82.0		1.30	20

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Project: Chico 4-65 26-25 PAD

Project Number: [none]
Project Manager: Costin McQueen

Reported:
06/10/24 10:52

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

Summit Scientific

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

Batch BHE0450 - General Preparation

Blank (BHE0450-BLK1)

Prepared & Analyzed: 05/14/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHE0450-BS1)

Prepared & Analyzed: 05/14/24

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BHE0450-DUP1)

Source: 2405181-01

Prepared & Analyzed: 05/14/24

Specific Conductance (EC) 4.96 0.0100 mmhos/cm 5.06 2.08 20

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Civitas Resources
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Windsor CO, 80550

Project: Chico 4-65 26-25 PAD

Project Number: [none]
Project Manager: Costin McQueen

Reported:
06/10/24 10:52

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 BHE0449 - General Preparation

LCS (BHE0449-BS1)

Prepared & Analyzed: 05/14/24

pH	9.19	pH Units	9.18	100	95-105
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Duplicate (BHE0449-DUP1)

Source: 2405181-01

Prepared & Analyzed: 05/14/24

pH	8.05	pH Units	8.05	0.00	20
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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Chico 4-65 26-25 PAD

Project Number: [none]
Project Manager: Costin McQueen

Reported:
06/10/24 10:52

Notes and Definitions

- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- 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