

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

July 24, 2023

Costin McQueen

Civitas Resources

650 Southgate Drive

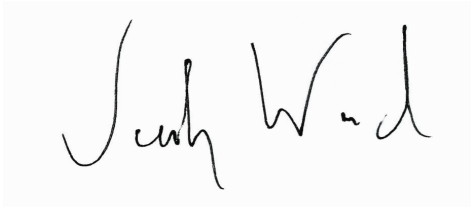
Windsor, CO 80550

RE: Alma 15-66-2524 Pad

Work Order # 2307262

Enclosed are the results of analyses for samples received by Summit Scientific on 07/14/23 15:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Jacob Wood". The signature is written in a cursive, flowing style. The first name "Jacob" is written with a large, looped 'J' and a small 'a'. The last name "Wood" is written with a large 'W' and a small 'd'.

Jacob Wood For Paul Shrewsbury

President



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Alma 15-66-2524 Pad

Project Number: P1619

Project Manager: Costin McQueen

Reported:
07/24/23 08:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WC SS01	2307262-01	Soil	07/11/23 10:00	07/14/23 15:00

Summit Scientific

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

		Send Data To:	Send Invoice To:
Client: <u>Civitas Resources</u>	Project Manager: <u>Costin McQueen</u>	Company: <u>Civitas Resources</u>	
Address: <u>650 Southgate Dr</u>	E-Mail: <u>cmcqueen@civitasresources.com</u>	Project Name/Location: <u>ALMA 15-66-2524</u>	
City/State/Zip: <u>Windsor CO 80550</u>		AFE#: <u>CIC; P1619</u>	
Phone: <u>720-315-8934</u>	Project Name: <u>ALMA 15-66-2524 Pdd</u>	PO/Billing Codes: <u>M/M: 8520.162</u>	
Sampler Name: <u>Howard Arnold</u>	Project Number:	Contact: <u>Costin McQueen</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							
1	WC 5801	7/11/23	10:00	2			X			X			X						
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <u>Howard Arnold</u>	Date/Time: <u>7/14/23 3:00 PM</u>	Received by: <u>[Signature]</u>	Date/Time: <u>7/14/23 15:00</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <u>98</u>	Corrected Temperature: <u>[Signature]</u>	IR gun #: <u>1</u>	HNO3 lot #: <u></u>			

S₂

Sample Receipt Checklist

S2 Work Order#

2307262

Client: Cintas Resources

Client Project ID:

ALMA 15-1610-2924 Pad

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

Airbill #:

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Matrix (Check all that apply)

Air

☐

Soil/Solid

☐

Water

☐

Other

☐

Temp (°C)

98

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"/>	on ICE
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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 checked="" type="checkbox"/>	<input type="checkbox"/>	wrote 1 of 2 but only 1 sheet
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.

Custodian Printed Name

Date/Time



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Alma 15-66-2524 Pad

Project Number: P1619

Project Manager: Costin McQueen

Reported:
07/24/23 08:22

WC SS01
2307262-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/11/23 10:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020		mg/kg	1	BGG0456	07/14/23	07/15/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **07/11/23 10:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		99.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/11/23 10:00**

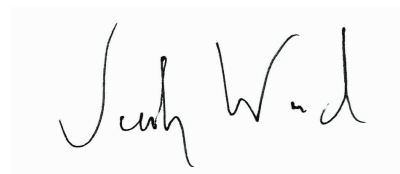
Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50		mg/kg	1	BGG0457	"	07/14/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **07/11/23 10:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		95.6 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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2307262-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **07/11/23 10:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGG0469	07/17/23	07/18/23	EPA 8270D SIM	
Anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Chrysene	ND	0.00500		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500		"	"	"	"	"	"	
Fluoranthene	ND	0.00500		"	"	"	"	"	"	
Fluorene	ND	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	ND	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	

Date Sampled: **07/11/23 10:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		103 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		63.8 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/11/23 10:00**

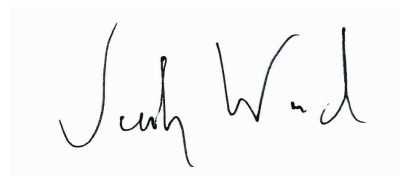
Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.654	0.0100		mg/L	1	BGG0486	07/17/23	07/20/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/11/23 10:00**

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

Project: Alma 15-66-2524 Pad

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WC SS01
2307262-01 (Soil)

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Total Metals by EPA 6020B

Arsenic	1.78	0.210		mg/kg dry	1	BGG0465	07/17/23	07/18/23	EPA 6020B
Barium	60.3	0.421		"	"	"	"	"	"
Cadmium	ND	0.210		"	"	"	"	"	"
Copper	2.25	0.421		"	"	"	"	"	"
Lead	4.10	0.210		"	"	"	"	"	"
Nickel	2.12	0.421		"	"	"	"	"	"
Selenium	ND	0.273	0.184	"	"	"	"	"	"
Silver	ND	0.0210		"	"	"	"	"	"
Zinc	9.13	0.421		"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/11/23 10:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGG0467	07/17/23	07/17/23	EPA 7196A	

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

Date Sampled: **07/11/23 10:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	9.43	0.0526		mg/L dry	1	BGG0458	07/14/23	07/17/23	EPA 6020B	
Magnesium	4.16	0.0526		"	"	"	"	"	"	
Sodium	1720	0.0526		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/11/23 10:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	117	0.00100		units	1	BGG0536	07/18/23	07/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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2307262-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/11/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	95.1			%	1	BGG0468	07/17/23	07/17/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/11/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	7.67	0.0100		mmhos/cm	1	BGG0502	07/17/23	07/17/23	EPA 120.1	

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

Date Sampled: **07/11/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.80			pH Units	1	BGG0503	07/17/23	07/17/23	EPA 9045D	

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Project: Alma 15-66-2524 Pad

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Project Manager: Costin McQueen

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07/24/23 08:22

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 BGG0456 - EPA 5030 Soil MS

Blank (BGG0456-BLK1)

Prepared & Analyzed: 07/14/23

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	0.0452	"	0.0400	113	50-150
Surrogate: Toluene-d8	0.0400	"	0.0400	100	50-150
Surrogate: 4-Bromofluorobenzene	0.0404	"	0.0400	101	50-150

LCS (BGG0456-BS1)

Prepared & Analyzed: 07/14/23

Benzene	0.113	0.0020	mg/kg	0.100	113	70-130
Toluene	0.116	0.0050	"	0.100	116	70-130
Ethylbenzene	0.115	0.0050	"	0.100	115	70-130
m,p-Xylene	0.224	0.010	"	0.200	112	70-130
o-Xylene	0.107	0.0050	"	0.100	107	70-130
1,2,4-Trimethylbenzene	0.113	0.0050	"	0.100	113	70-130
1,3,5-Trimethylbenzene	0.117	0.0050	"	0.100	117	70-130
Naphthalene	0.112	0.0038	"	0.100	112	70-130

Surrogate: 1,2-Dichloroethane-d4	0.0405	"	0.0400	101	50-150
Surrogate: Toluene-d8	0.0404	"	0.0400	101	50-150
Surrogate: 4-Bromofluorobenzene	0.0396	"	0.0400	98.9	50-150

Matrix Spike (BGG0456-MS1)

Source: 2307249-01

Prepared & Analyzed: 07/14/23

Benzene	0.116	0.0020	mg/kg	0.100	ND	116	70-130
Toluene	0.122	0.0050	"	0.100	ND	122	70-130
Ethylbenzene	0.117	0.0050	"	0.100	ND	117	70-130
m,p-Xylene	0.230	0.010	"	0.200	ND	115	70-130
o-Xylene	0.111	0.0050	"	0.100	ND	111	70-130
1,2,4-Trimethylbenzene	0.119	0.0050	"	0.100	ND	119	70-130
1,3,5-Trimethylbenzene	0.121	0.0050	"	0.100	ND	121	70-130
Naphthalene	0.128	0.0038	"	0.100	ND	128	70-130

Surrogate: 1,2-Dichloroethane-d4	0.0431	"	0.0400	108	50-150
Surrogate: Toluene-d8	0.0404	"	0.0400	101	50-150
Surrogate: 4-Bromofluorobenzene	0.0404	"	0.0400	101	50-150

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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 BGG0456 - EPA 5030 Soil MS

Matrix Spike Dup (BGG0456-MSD1)	Source: 2307249-01			Prepared & Analyzed: 07/14/23						
Benzene	0.118	0.0020	mg/kg	0.100	ND	118	70-130	1.76	30	
Toluene	0.122	0.0050	"	0.100	ND	122	70-130	0.0987	30	
Ethylbenzene	0.117	0.0050	"	0.100	ND	117	70-130	0.103	30	
m,p-Xylene	0.228	0.010	"	0.200	ND	114	70-130	0.942	30	
o-Xylene	0.112	0.0050	"	0.100	ND	112	70-130	1.59	30	
1,2,4-Trimethylbenzene	0.118	0.0050	"	0.100	ND	118	70-130	0.963	30	
1,3,5-Trimethylbenzene	0.122	0.0050	"	0.100	ND	122	70-130	0.864	30	
Naphthalene	0.122	0.0038	"	0.100	ND	122	70-130	4.75	30	
Surrogate: 1,2-Dichloroethane-d4	0.0436		"	0.0400		109	50-150			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	50-150			

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Project Manager: Costin McQueen

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07/24/23 08:22

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 BGG0457 - EPA 3550A

Blank (BGG0457-BLK1)

Prepared & Analyzed: 07/14/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	10.9		"	12.5		87.4	30-150			

LCS (BGG0457-BS1)

Prepared & Analyzed: 07/14/23

C10-C28 (DRO)	596	50	mg/kg	500		119	70-130			
Surrogate: o-Terphenyl	12.2		"	12.5		97.3	30-150			

Matrix Spike (BGG0457-MS1)

Source: 2307249-01

Prepared & Analyzed: 07/14/23

C10-C28 (DRO)	600	50	mg/kg	500	9.74	118	70-130			
Surrogate: o-Terphenyl	12.0		"	12.5		96.1	30-150			

Matrix Spike Dup (BGG0457-MSD1)

Source: 2307249-01

Prepared & Analyzed: 07/14/23

C10-C28 (DRO)	594	50	mg/kg	500	9.74	117	70-130	0.951	20	
Surrogate: o-Terphenyl	11.8		"	12.5		94.4	30-150			

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PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGG0469 - EPA 5030 Soil MS

Blank (BGG0469-BLK1)

Prepared & Analyzed: 07/17/23

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	0.0398		"	0.0333		120	40-150			
Surrogate: Fluoranthene-d10	0.0238		"	0.0333		71.4	40-150			

LCS (BGG0469-BS1)

Prepared & Analyzed: 07/17/23

Acenaphthene	0.0263	0.00500	mg/kg	0.0333		78.9	31-137			
Anthracene	0.0269	0.00500	"	0.0333		80.8	30-120			
Benzo (a) anthracene	0.0197	0.00500	"	0.0333		59.0	30-120			
Benzo (a) pyrene	0.0259	0.00500	"	0.0333		77.7	30-120			
Benzo (b) fluoranthene	0.0236	0.00500	"	0.0333		70.8	30-120			
Benzo (k) fluoranthene	0.0252	0.00500	"	0.0333		75.6	30-120			
Chrysene	0.0273	0.00500	"	0.0333		82.0	30-120			
Dibenz (a,h) anthracene	0.0225	0.00500	"	0.0333		67.5	30-120			
Fluoranthene	0.0264	0.00500	"	0.0333		79.3	30-120			
Fluorene	0.0262	0.00500	"	0.0333		78.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0215	0.00500	"	0.0333		64.5	30-120			
Pyrene	0.0287	0.00500	"	0.0333		86.2	35-142			
1-Methylnaphthalene	0.0186	0.00500	"	0.0333		55.7	35-142			
2-Methylnaphthalene	0.0383	0.00500	"	0.0333		115	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0310		"	0.0333		93.0	40-150			
Surrogate: Fluoranthene-d10	0.0275		"	0.0333		82.6	40-150			

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Alma 15-66-2524 Pad

Project Number: P1619
Project Manager: Costin McQueen

Reported:
07/24/23 08:22

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGG0469 - EPA 5030 Soil MS

Matrix Spike (BGG0469-MS1)			Source: 2307272-01		Prepared & Analyzed: 07/17/23						
Acenaphthene	0.0138	0.00500	mg/kg	0.0333	ND	41.4	31-137				
Anthracene	0.0143	0.00500	"	0.0333	ND	42.8	30-120				
Benzo (a) anthracene	0.0154	0.00500	"	0.0333	ND	46.1	30-120				
Benzo (a) pyrene	0.0135	0.00500	"	0.0333	ND	40.5	30-120				
Benzo (b) fluoranthene	0.0194	0.00500	"	0.0333	ND	58.1	30-120				
Benzo (k) fluoranthene	0.0144	0.00500	"	0.0333	ND	43.1	30-120				
Chrysene	0.0139	0.00500	"	0.0333	ND	41.7	30-120				
Dibenz (a,h) anthracene	0.0144	0.00500	"	0.0333	ND	43.1	30-120				
Fluoranthene	0.0147	0.00500	"	0.0333	ND	44.2	30-120				
Fluorene	0.0144	0.00500	"	0.0333	ND	43.2	30-120				
Indeno (1,2,3-cd) pyrene	0.0153	0.00500	"	0.0333	ND	46.0	30-120				
Pyrene	0.0140	0.00500	"	0.0333	ND	41.9	35-142				
1-Methylnaphthalene	0.0230	0.00500	"	0.0333	ND	68.9	15-130				
2-Methylnaphthalene	0.0277	0.00500	"	0.0333	ND	83.0	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0235		"	0.0333		70.6	40-150				
Surrogate: Fluoranthene-d10	0.0154		"	0.0333		46.3	40-150				

Matrix Spike Dup (BGG0469-MSD1)			Source: 2307272-01		Prepared & Analyzed: 07/17/23						
Acenaphthene	0.0138	0.00500	mg/kg	0.0333	ND	41.5	31-137	0.389	30		
Anthracene	0.0146	0.00500	"	0.0333	ND	43.8	30-120	2.50	30		
Benzo (a) anthracene	0.0188	0.00500	"	0.0333	ND	56.5	30-120	20.2	30		
Benzo (a) pyrene	0.0168	0.00500	"	0.0333	ND	50.5	30-120	21.9	30		
Benzo (b) fluoranthene	0.0170	0.00500	"	0.0333	ND	51.1	30-120	12.9	30		
Benzo (k) fluoranthene	0.0173	0.00500	"	0.0333	ND	51.9	30-120	18.5	30		
Chrysene	0.0140	0.00500	"	0.0333	ND	41.9	30-120	0.452	30		
Dibenz (a,h) anthracene	0.0174	0.00500	"	0.0333	ND	52.2	30-120	19.0	30		
Fluoranthene	0.0137	0.00500	"	0.0333	ND	41.2	30-120	7.02	30		
Fluorene	0.0135	0.00500	"	0.0333	ND	40.5	30-120	6.53	30		
Indeno (1,2,3-cd) pyrene	0.0160	0.00500	"	0.0333	ND	47.9	30-120	3.97	30		
Pyrene	0.0173	0.00500	"	0.0333	ND	51.9	35-142	21.2	30		
1-Methylnaphthalene	0.0187	0.00500	"	0.0333	ND	56.0	15-130	20.8	50		
2-Methylnaphthalene	0.0290	0.00500	"	0.0333	ND	86.9	15-130	4.51	50		
Surrogate: 2-Methylnaphthalene-d10	0.0300		"	0.0333		90.0	40-150				
Surrogate: Fluoranthene-d10	0.0151		"	0.0333		45.4	40-150				

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Alma 15-66-2524 Pad

Project Number: P1619

Project Manager: Costin McQueen

Reported:
07/24/23 08:22

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 BGG0486 - EPA 3050B

Blank (BGG0486-BLK1)

Prepared: 07/17/23 Analyzed: 07/20/23

Boron ND 0.0100 mg/L

LCS (BGG0486-BS1)

Prepared: 07/17/23 Analyzed: 07/20/23

Boron 4.66 0.0100 mg/L 5.00 93.3 80-120

Duplicate (BGG0486-DUP1)

Source: 2305666-01

Prepared: 07/17/23 Analyzed: 07/20/23

Boron 0.109 0.0100 mg/L 0.126 14.3 20

Matrix Spike (BGG0486-MS1)

Source: 2305666-01

Prepared: 07/17/23 Analyzed: 07/20/23

Boron 4.69 0.0100 mg/L 5.00 0.126 91.2 75-125

Matrix Spike Dup (BGG0486-MSD1)

Source: 2305666-01

Prepared: 07/17/23 Analyzed: 07/20/23

Boron 4.74 0.0100 mg/L 5.00 0.126 92.2 75-125 1.07 25

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Alma 15-66-2524 Pad

Project Number: P1619

Project Manager: Costin McQueen

Reported:
07/24/23 08:22

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 BGG0465 - EPA 3050B

Blank (BGG0465-BLK1)

Prepared: 07/17/23 Analyzed: 07/18/23

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

LCS (BGG0465-BS1)

Prepared: 07/17/23 Analyzed: 07/18/23

Arsenic	36.3	0.200	mg/kg wet	40.0	90.9	80-120
Barium	38.0	0.400	"	40.0	95.1	80-120
Cadmium	1.86	0.200	"	2.00	93.0	80-120
Copper	39.4	0.400	"	40.0	98.4	80-120
Lead	18.6	0.200	"	20.0	92.9	80-120
Nickel	38.3	0.400	"	40.0	95.8	80-120
Selenium	3.77	0.260	"	4.00	94.3	80-120
Silver	1.87	0.0200	"	2.00	93.7	80-120
Zinc	37.9	0.400	"	40.0	94.8	80-120

Duplicate (BGG0465-DUP1)

Source: 2305666-01

Prepared: 07/17/23 Analyzed: 07/18/23

Arsenic	2.19	0.233	mg/kg dry	2.55	15.3	20	
Barium	333	0.466	"	348	4.60	20	
Cadmium	0.211	0.233	"	0.248	16.4	20	
Copper	2.91	0.466	"	3.51	18.7	20	
Lead	5.35	0.233	"	7.06	27.5	20	QR-04
Nickel	2.92	0.466	"	3.51	18.6	20	
Selenium	ND	0.303	"	ND		20	
Silver	0.0172	0.0233	"	0.0224	25.9	20	QR-01
Zinc	12.7	0.466	"	14.9	16.4	20	

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Alma 15-66-2524 Pad

Project Number: P1619

Project Manager: Costin McQueen

Reported:
07/24/23 08:22

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 BGG0465 - EPA 3050B

Matrix Spike (BGG0465-MS1)	Source: 2305666-01			Prepared: 07/17/23 Analyzed: 07/18/23				QM-07		
Arsenic	43.3	0.233	mg/kg dry	46.6	2.55	87.5	75-125			
Barium	488	0.466	"	46.6	348	299	75-125			
Cadmium	2.42	0.233	"	2.33	0.248	93.3	75-125			
Copper	34.8	0.466	"	46.6	3.51	67.2	75-125			
Lead	27.5	0.233	"	23.3	7.06	87.9	75-125			
Nickel	34.9	0.466	"	46.6	3.51	67.4	75-125			
Selenium	3.95	0.303	"	4.66	ND	84.8	75-125			
Silver	2.15	0.0233	"	2.33	0.0224	91.5	75-125			
Zinc	46.9	0.466	"	46.6	14.9	68.7	75-125			

Matrix Spike Dup (BGG0465-MSD1)	Source: 2305666-01			Prepared: 07/17/23 Analyzed: 07/18/23				QM-07		
Arsenic	43.2	0.233	mg/kg dry	46.6	2.55	87.3	75-125	0.256	25	
Barium	485	0.466	"	46.6	348	293	75-125	0.561	25	
Cadmium	2.39	0.233	"	2.33	0.248	92.0	75-125	1.20	25	
Copper	34.8	0.466	"	46.6	3.51	67.2	75-125	0.0803	25	
Lead	27.5	0.233	"	23.3	7.06	87.8	75-125	0.0829	25	
Nickel	34.9	0.466	"	46.6	3.51	67.5	75-125	0.0973	25	
Selenium	4.13	0.303	"	4.66	ND	88.8	75-125	4.55	25	
Silver	2.13	0.0233	"	2.33	0.0224	90.4	75-125	1.18	25	
Zinc	46.9	0.466	"	46.6	14.9	68.6	75-125	0.106	25	

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Alma 15-66-2524 Pad

Project Number: P1619

Project Manager: Costin McQueen

Reported:
07/24/23 08:22

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 BGG0467 - 3060A Mod

Blank (BGG0467-BLK1)

Prepared & Analyzed: 07/17/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGG0467-BS1)

Prepared & Analyzed: 07/17/23

Chromium, Hexavalent 20.4 0.30 mg/kg wet 25.0 81.6 80-120

Duplicate (BGG0467-DUP1)

Source: 2305666-01

Prepared & Analyzed: 07/17/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGG0467-MS1)

Source: 2305666-01

Prepared & Analyzed: 07/17/23

Chromium, Hexavalent 27.3 0.30 mg/kg dry 29.1 ND 93.8 75-125

Matrix Spike Dup (BGG0467-MSD1)

Source: 2305666-01

Prepared & Analyzed: 07/17/23

Chromium, Hexavalent 27.8 0.30 mg/kg dry 29.1 ND 95.6 75-125 1.90 20

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Alma 15-66-2524 Pad

Project Number: P1619

Project Manager: Costin McQueen

Reported:
07/24/23 08:22

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

Summit Scientific

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

Batch BGG0458 - General Preparation

Blank (BGG0458-BLK1)

Prepared: 07/14/23 Analyzed: 07/17/23

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

LCS (BGG0458-BS1)

Prepared: 07/14/23 Analyzed: 07/17/23

Calcium	4.53	0.0500	mg/L wet	5.00	90.6	70-130
Magnesium	5.63	0.0500	"	5.00	113	70-130
Sodium	5.66	0.0500	"	5.00	113	70-130

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Alma 15-66-2524 Pad

Project Number: P1619

Project Manager: Costin McQueen

Reported:

07/24/23 08:22

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

Summit Scientific

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

Batch BGG0468 - General Preparation

Duplicate (BGG0468-DUP1)

Source: 2305666-01

Prepared & Analyzed: 07/17/23

% Solids	84.9	%		85.9		1.20	20
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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Alma 15-66-2524 Pad

Project Number: P1619

Project Manager: Costin McQueen

Reported:
07/24/23 08:22

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

Summit Scientific

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

Batch BGG0502 - General Preparation

Blank (BGG0502-BLK1)

Prepared & Analyzed: 07/17/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGG0502-BS1)

Prepared & Analyzed: 07/17/23

Specific Conductance (EC) 0.158 0.0100 mmhos/cm 0.150 105 95-105

Duplicate (BGG0502-DUP1)

Source: 2307262-01

Prepared & Analyzed: 07/17/23

Specific Conductance (EC) 7.41 0.0100 mmhos/cm 7.67 3.39 20

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Alma 15-66-2524 Pad

Project Number: P1619

Project Manager: Costin McQueen

Reported:
07/24/23 08:22

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 BGG0503 - General Preparation

LCS (BGG0503-BS1)

Prepared & Analyzed: 07/17/23

pH	9.10	pH Units	9.18	99.1	95-105
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Duplicate (BGG0503-DUP1)

Source: 2307262-01

Prepared & Analyzed: 07/17/23

pH	7.81	pH Units	7.80	0.128	20
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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Alma 15-66-2524 Pad

Project Number: P1619
Project Manager: Costin McQueen

Reported:
07/24/23 08:22

Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
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