

# **FREMONT ENVIRONMENTAL INC.**

January 18, 2023

Mr. Jacob Evans  
Civitas Resources Inc.  
650 Southgate Drive  
Windsor, CO 80550

Subject:       **Pit Closure Data Submittal**  
                  Miller 4-17J  
                  SWSW Sec. 17, T2N, R67W  
                  Weld County, Colorado  
                  Fremont No. C022-148  
                  Facility #103315, Remediation #25332

Dear Mr. Evans:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted a site investigation for the former Miller 4-17J pit. Attached are the results of the pit investigation. Impacts exceeding the COGCC Table 915-1 organic and inorganic standards were observed at 17 feet below ground surface. Groundwater was not encountered.

Please contact me at (303) 956-8714 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,

**FREMONT ENVIRONMENTAL INC.**



Paul V. Henahan, P.E.  
Senior Consultant

Attachments:

- Tables
- Figures
- Boring Log
- Laboratory Report

**1759 REDWING LANE, BROOMFIELD, CO 80020**  
**(303) 956-8714 (DIRECT)**

TABLE 1  
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA  
CIVITAS RESOURCES, INC.  
MILLER 4-17J, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C022-148

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4- Trimethyl- Benzene (mg/kg)	1,3,5- Trimethyl- Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
COGCC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500		
SS01@17.0'	10/27/2022	17.0'	0.009	<0.0050	10	150	72	56	0.57	880	1600	<50

Bold faced values exceed the COGCC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

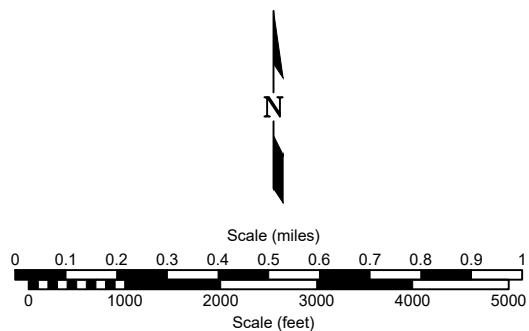
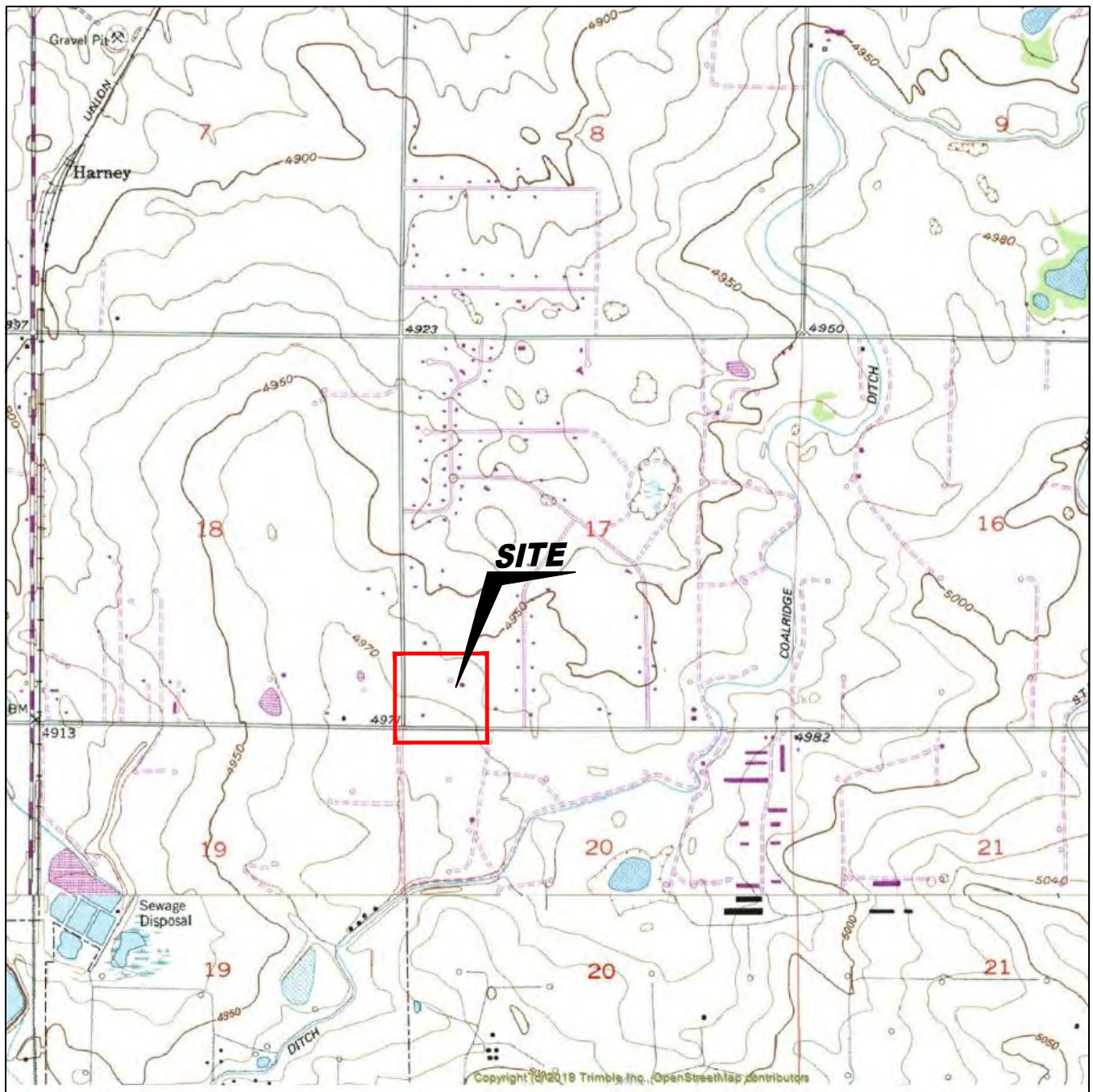
\* Summation of GRO+DRO+ORO must be less than 500 mg/kg

TABLE 2  
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION  
CIVITAS RESOURCES, INC.  
MILLER 4-17J, WELD COUNTY, COLORADO FREMONT  
PROJECT NO. C022-148

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
COGCC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
SS01@17.0'	10/27/2022	17.0'	<b>8.49</b>	1.6	<b>10.8</b>	NA

Bold faced values exceed the COGCC Table 915-1 concentrations

Yellow highlighted 915-1 Limits indicate the referenced soil screening level (SSL)



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1  
**SITE LOCATION MAP**

**CIVITAS RESOURCES ~ MILLER 4-17J**  
SWSW Sec. 17, T2N, R67W, 6th PM  
Weld County, Colorado  
40.133170°, -104.921157°

Project # <b>C022-148</b>	API #	Facility # <b>100315</b>
Date <b>1/17/2023</b>	Remediation # <b>25332</b>	Filename <b>22148T</b>





# LEGEND

● SOIL BORING	○ ABOVE GROUND STORAGE TANK	▭ BUILDING	▭ BUILDING	— FENCE LINE	— CONTAINMENT BERM	— CONTAINMENT WALL
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Figure 2  
SITE MAP

**CIVITAS RESOURCES ~ MILLER 4-17J**  
SWSW Sec. 17, T2N, R67W, 6th PM  
Weld County, Colorado  
40.133170°, -104.921157°

Project No. <b>C022-148</b>	API #	Facility # <b>100315</b>
Date <b>1/17/2023</b>	Remediation # <b>25332</b>	Filename <b>22148Q</b>





# LEGEND

● SOIL BORING	○ ABOVE GROUND STORAGE TANK	▭ BUILDING	▭ BUILDING	— FENCE LINE	— CONTAINMENT BERM	— CONTAINMENT WALL
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11/02/2022	DATE SAMPLED
SB-NE (0.5')	SAMPLE ID and DEPTH (ft)
B	<0.0020 BENZENE (mg/kg)
T	<0.0050 TOLUENE (mg/kg)
E	<0.0050 ETHYLBENZENE (mg/kg)
X	<0.010 TOTAL XYLENES (mg/kg)
1,2,4-TB	<0.0050 1,2,4-TRIMETHYLBENZENE (mg/kg)
1,3,5-TB	<0.0050 1,3,5-TRIMETHYLBENZENE (mg/kg)
N	<0.0038 NAPHTHALENE (mg/kg)
G	<0.50 TPH-GRO (mg/kg)
D	<50 TPH-DRO (mg/kg)
O	<50 TPH-ORO (mg/kg)

11/02/2022	DATE SAMPLED
SB-NE (0.5')	SAMPLE ID & DEPTH (ft)
SAR	3.58 SAR (units)
pH	8.08 pH (pH units)
EC	1.01 EC (mmhos/cm)
B	0.085 BORON (mg/L)

Figure 3  
SOIL CHEMISTRY MAP

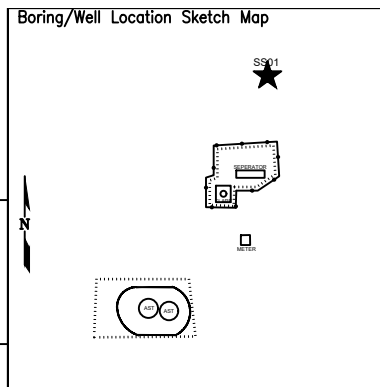
**CIVITAS RESOURCES ~ MILLER 4-17J**  
SWSW Sec. 17, T2N, R67W, 6th PM  
Weld County, Colorado  
40.133170°, -104.921157°

Project No. <b>C022-148</b>	API #	Facility # <b>100315</b>	
Date <b>1/17/2023</b>	Remediation # <b>25332</b>	Filename <b>22148Q</b>	

## BORING/WELL CONSTRUCTION LOG

Page 1 of 1

Boring/Well No. <b>SS-1</b>	Total Depth <b>20'</b>	Location <b>Civitas Resources Miller 4-17J SWSW Sec. 17, T2N, R67W, 6th PM Weld County, Colorado</b>	
Project No./Name <b>C022-148 Civitas Miller 4-17J</b>		Approved By	
Drilling Contractor/Driller <b>Drill Pro</b>		Geologist/Office <b>Jeff Griggs / Fremont Environmental, Inc.</b>	
Drilling Equipment/Method <b>Direct Push</b>		Size/Type of Bit <b>2.25"</b>	Sampling Method <b>direct push</b>
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Start/Finish Date <b>10/27/2022</b>
Elevation of: (ft. above datum)		Screen: Type	Slot Size
Ground Surface		Top of Well Casing	Top of Screen
Bottom of Screen		Ground Water Surface/Date Measured	



DEPTH (feet)	WELL CONSTRUCTION				LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
					GRAPHIC LOG	VISUAL DESCRIPTION				
					<b>LOAM</b>	loam				0.0
						brown, loose, med-fine, sand		85%		0.0
										0.0
										0.0
										0.0
5					<b>SP</b>					0.0
								65%		0.0
										0.0
										0.0
										0.0
										0.0
10								98%		0.0
					<b>ML-CL</b>	brown, slight plasticity, fine, sandy silt, with some clay				0.0
										31.9
						black/gray, odor, fine, sandy silt, with some clay		98%		70.2
15										71.3
										85.5
										444.0
						gray/brown, light odor, fine, compact, sandy silt		98%		46.5
					<b>ML</b>	gray/brown, no odor, fine compact, sandy silt				42.1
20										33.9

TD - 20'

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 07, 2022

Paul Henchan  
Civitas Resources  
650 Southgate Drive  
Windsor, CO 80550

RE: Miller 4-17J

Work Order #2210528

Enclosed are the results of analyses for samples received by Summit Scientific on 10/27/22 15:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Mikayla Axtell", is written over a light gray rectangular background.

Mikayla Axtell For Paul Shrewsbury  
President



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Miller 4-17J

Project Number: [none]

Project Manager: Paul Henchan

**Reported:**  
11/07/22 09:14

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@17.0'	2210528-01	Soil	10/27/22 00:00	10/27/22 15:35

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.*

# Summit Scientific

S<sub>2</sub>

2210528

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310

Page 1 of 1

Client: Fremont Env

Project Manager: Paul Henehan

Address:

E-Mail: Paulh@fremontenv.com jeffg@fremontenv.com

City/State/Zip:

Ethanb@fremontenv.com

Phone:

Project Name: Miller 4-17J

Sampler Name: JG

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions		
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	BTX+N	TMBS (915)	DRO, GRO, PRO	EC, PM, SAR							
1	SS01@17.0'	10/27/22		2			X			X				X	X	X	X						
2	SS02@20.0'	10/27/22		2			X			X													HOLD!!!
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							

Relinquished by: <u>[Signature]</u>	Date/Time: <u>10/27/22 1535</u>	Received by: <u>[Signature]</u>	Date/Time: <u>10.27.22 1535</u>	Turn Around Time (Check) Same Day <u>    </u> 72 hours <u>    </u> 24 hours <u>    </u> <u>Standard</u> <u>X</u> 48 hours <u>    </u>	Notes: <u>Client 48 Civitas</u>  <u>Bill to Jacob</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Samples Intact: <u>Yes</u> No	
Temperature Upon Receipt: <u>14.8</u>	Corrected Temperature <u>    </u>	HNO <sub>3</sub> lot # <u>    </u>			
IR gun correction: <u>    </u>	IR gun #: <u>    </u>				



## Sample Receipt Checklist

S2 Work Order# 2210528

Client: Fremont Client Project ID: Miller 4-17JShipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: \_\_\_\_\_

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 14.8 Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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"/>	<u>in ice</u>
If custody seals are present, are they intact? <sup>(1)</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation <b>(excluding cooling)</b> ? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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):  				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

AT  
Custodian Printed Name10.27.22  
Date/Time



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Miller 4-17J  
Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
11/07/22 09:14

**SS01@17.0'**  
**2210528-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 10/27/22 00:00									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>0.0090</b>	0.0020	mg/kg	1	BFK0014	11/01/22	11/02/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>10</b>	0.50	"	100	"	"	11/03/22	"	
<b>Xylenes (total)</b>	<b>150</b>	10	"	1000	"	"	11/04/22	"	
<b>1,2,4-Trimethylbenzene</b>	<b>72</b>	5.0	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>56</b>	5.0	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.57</b>	0.0038	"	1	"	"	11/02/22	"	
<b>Gasoline Range Hydrocarbons</b>	<b>880</b>	5.0	"	10	"	"	11/01/22	"	

Date Sampled: 10/27/22 00:00									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	50-150	"	"	"	11/02/22	"	
Surrogate: Toluene-d8		86.7 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		361 %	50-150	"	"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 10/27/22 00:00									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>1600</b>	50	mg/kg	1	BFK0016	11/01/22	11/04/22	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>ND</b>	50	"	"	"	"	"	"	

Date Sampled: 10/27/22 00:00									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		45.0 %	30-150	"	"	"	"	"	

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

Summit Scientific

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



Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Miller 4-17J  
Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
11/07/22 09:14

**SS01@17.0'**  
**2210528-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/27/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	84.9	0.0590	mg/L dry	1	BFJ0819	10/28/22	10/31/22	EPA 6020B	
Magnesium	11.2	0.0590	"	"	"	"	"	"	
Sodium	398	0.0590	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/27/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	10.8	0.00100	units	1	BFK0013	11/01/22	11/01/22	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **10/27/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.8		%	1	BFJ0796	10/28/22	10/28/22	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/27/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.60	0.0100	mmhos/cm	1	BFJ0828	10/28/22	10/31/22	EPA 120.1	

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

Date Sampled: **10/27/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.49		pH Units	1	BFJ0829	10/28/22	10/31/22	EPA 9045D	

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Miller 4-17J  
Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
11/07/22 09:14

## 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 BFK0014 - EPA 5030 Soil MS

##### Blank (BFK0014-BLK1)

Prepared: 11/01/22 Analyzed: 11/03/22

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	0.0441		"	0.0400		110	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0413		"	0.0400		103	50-150			

##### LCS (BFK0014-BS1)

Prepared: 11/01/22 Analyzed: 11/03/22

Benzene	0.0904	0.0020	mg/kg	0.125		72.3	70-130			
Toluene	0.128	0.0050	"	0.125		102	70-130			
Ethylbenzene	0.143	0.0050	"	0.125		115	70-130			
m,p-Xylene	0.290	0.010	"	0.250		116	70-130			
o-Xylene	0.148	0.0050	"	0.125		118	70-130			
1,2,4-Trimethylbenzene	0.139	0.0050	"	0.125		111	70-130			
1,3,5-Trimethylbenzene	0.136	0.0050	"	0.125		109	70-130			
Naphthalene	0.145	0.0038	"	0.125		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0384		"	0.0400		96.1	50-150			
Surrogate: Toluene-d8	0.0350		"	0.0400		87.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0400		95.0	50-150			

##### Matrix Spike (BFK0014-MS1)

Source: 2210529-01

Prepared: 11/01/22 Analyzed: 11/03/22

Benzene	0.102	0.0020	mg/kg	0.125	ND	81.6	70-130			
Toluene	0.136	0.0050	"	0.125	ND	109	70-130			
Ethylbenzene	0.145	0.0050	"	0.125	ND	116	70-130			
m,p-Xylene	0.297	0.010	"	0.250	ND	119	70-130			
o-Xylene	0.143	0.0050	"	0.125	ND	114	70-130			
1,2,4-Trimethylbenzene	0.140	0.0050	"	0.125	ND	112	70-130			
1,3,5-Trimethylbenzene	0.137	0.0050	"	0.125	ND	110	70-130			
Naphthalene	0.124	0.0038	"	0.125	ND	99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0456		"	0.0400		114	50-150			
Surrogate: Toluene-d8	0.0503		"	0.0400		126	50-150			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	50-150			

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Miller 4-17J  
Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
11/07/22 09:14

**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 BFK0014 - EPA 5030 Soil MS**

Matrix Spike Dup (BFK0014-MSD1)		Source: 2210529-01			Prepared: 11/01/22 Analyzed: 11/03/22					
Benzene	0.102	0.0020	mg/kg	0.125	ND	81.3	70-130	0.354	30	
Toluene	0.139	0.0050	"	0.125	ND	111	70-130	2.12	30	
Ethylbenzene	0.162	0.0050	"	0.125	ND	129	70-130	11.0	30	
m,p-Xylene	0.266	0.010	"	0.250	ND	107	70-130	11.1	30	
o-Xylene	0.153	0.0050	"	0.125	ND	122	70-130	6.68	30	
1,2,4-Trimethylbenzene	0.145	0.0050	"	0.125	ND	116	70-130	3.58	30	
1,3,5-Trimethylbenzene	0.141	0.0050	"	0.125	ND	113	70-130	2.50	30	
Naphthalene	0.150	0.0038	"	0.125	ND	120	70-130	19.2	30	
Surrogate: 1,2-Dichloroethane-d4		0.0520	"	0.0400		130	50-150			
Surrogate: Toluene-d8		0.0413	"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene		0.0397	"	0.0400		99.2	50-150			

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Miller 4-17J  
Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
11/07/22 09:14

**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 BFK0016 - EPA 3550A**

**Blank (BFK0016-BLK1)**

Prepared: 11/01/22 Analyzed: 11/04/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	6.76		"	12.5		54.1	30-150			

**LCS (BFK0016-BS1)**

Prepared: 11/01/22 Analyzed: 11/04/22

C10-C28 (DRO)	405	50	mg/kg	500		81.1	70-130			
Surrogate: o-Terphenyl	6.92		"	12.5		55.4	30-150			

**Matrix Spike (BFK0016-MS1)**

**Source: 2210528-01**

Prepared: 11/01/22 Analyzed: 11/04/22

C10-C28 (DRO)	2020	50	mg/kg	500	1550	94.1	70-130			
Surrogate: o-Terphenyl	6.62		"	12.5		53.0	30-150			

**Matrix Spike Dup (BFK0016-MSD1)**

**Source: 2210528-01**

Prepared: 11/01/22 Analyzed: 11/04/22

C10-C28 (DRO)	2190	50	mg/kg	500	1550	127	70-130	7.79	20	
Surrogate: o-Terphenyl	6.81		"	12.5		54.5	30-150			

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Miller 4-17J

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
11/07/22 09:14

**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 BFJ0819 - General Preparation**

**Blank (BFJ0819-BLK1)**

Prepared: 10/28/22 Analyzed: 10/31/22

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

**LCS (BFJ0819-BS1)**

Prepared: 10/28/22 Analyzed: 10/31/22

Calcium	4.09	0.0500	mg/L wet	5.00	81.8	70-130
Magnesium	5.40	0.0500	"	5.00	108	70-130
Sodium	6.03	0.0500	"	5.00	121	70-130

Summit Scientific

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650 Southgate Drive  
Windsor CO, 80550

Project: Miller 4-17J

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
11/07/22 09:14

**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 BFJ0796 - General Preparation**

**Duplicate (BFJ0796-DUP1)**

**Source: 2210448-08**

Prepared & Analyzed: 10/28/22

% Solids	88.2	%		88.1		0.101	20
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Miller 4-17J

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
11/07/22 09:14

**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 BFJ0828 - General Preparation**

**Blank (BFJ0828-BLK1)**

Prepared: 10/28/22 Analyzed: 10/31/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFJ0828-BS1)**

Prepared: 10/28/22 Analyzed: 10/31/22

Specific Conductance (EC) 0.153 0.0100 mmhos/cm 0.150 102 95-105

**Duplicate (BFJ0828-DUP1)**

**Source: 2210516-01**

Prepared: 10/28/22 Analyzed: 10/31/22

Specific Conductance (EC) 1.12 0.0100 mmhos/cm 1.12 0.715 20

Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Miller 4-17J

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
11/07/22 09:14

**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 BFJ0829 - General Preparation**

**LCS (BFJ0829-BS1)**

Prepared: 10/28/22 Analyzed: 10/31/22

pH	9.17	pH Units	9.18	99.9	95-105
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**Duplicate (BFJ0829-DUP1)**

**Source: 2210285-03**

Prepared: 10/28/22 Analyzed: 10/31/22

pH	7.88	pH Units	7.86	0.254	20
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Summit Scientific

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Civitas Resources  
650 Southgate Drive  
Windsor CO, 80550

Project: Miller 4-17J

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
11/07/22 09:14

### Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
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