

CPC 42-23 1

SENE Sec. 23-T1S-R65W

API #: 001-07214

Remediation Project #: 24982

Spill/Release Information Package

October 2022

Prepared by Tasman, Inc.



On behalf of Extraction Oil and Gas, Inc.



FIELD NOTES AND PHOTO LOG

SITE NAME: CPC 42-23 1 WH and CPC 42-23 #1, Boxelder Farms 32-23 FL							DATE: 10/24/2022	REM. PROJECT #: 24982	WEATHER: 39 (F)		
SITE DIRECTIONS: 152nd Ave and Lanewood St, right S. Bound for 1.25 miles, Right INTO							CLIENT: Extraction Oil and Gas, Inc.				
LEGALS AND LAT/LONG: 39.953175, -104.630795							TASMAN PERSONNEL: Dalton Hagen, Sierra Kirylo				
SOIL TYPES: Well Graded Sand - SW							SURFACE GRADIENT: North				
SOIL SAMPLING							FACILITY INFRASTRUCTURE				
Date/Time	Soil Sample ID	PID (ppm)	Visual	Olfactory	Photo?	Grab or Lab Sample?	EQUIPMENT		Quantity		
							Above Ground Storage Tank (AST)				
10/24/2022 11:36	WH-B01@9'	2.4	No Staining	No Odor	Yes	Lab	Buried or Partially Buried Vessel				
10/24/2022 11:40	WH-N01@8'	1.7	No Staining	No Odor	Yes	N/A	Separator				
10/24/2022 23:43	WH-S01@8'	0.4	No Staining	No Odor	Yes	N/A	Emission Control Device (ECD)				
10/24/2022 11:45	WH-E01@8'	0.3	No Staining	No Odor	Yes	N/A	Dump Line				
10/24/2022 11:49	WH-W01@8	1.4	No Staining	No Odor	Yes	N/A	Wellhead		1		
10/24/2022 11:50	FL-B01@4'	0.3	No Staining	No Odor	Yes	N/A	Flowline		1		
10/24/2022 12:04	FL-B02@4'	0.3	No Staining	No Odor	Yes	N/A	Method of Closure		Removed		
10/24/2022 12:08	FL-B03@4'	0.2	No Staining	No Odor	Yes	N/A	Footage Removed		1,600'		
10/24/2022 11:52	SP-CS01	1.5	No Staining	No Odor	Yes	Lab	Footaged Abandoned in Place				
10/24/2022 11:55	SP-CS02	2.9	No Staining	No Odor	Yes	Lab	Other:				
10/24/2022 11:56	SP-CS03	0.1	No Staining	No Odor	Yes	Lab	Soil Loads Removed				
10/24/2022 11:59	SP-CS04	0.0	No Staining	No Odor	Yes	Lab	IMPACTED SOIL IDENTIFIED?				
10/24/2022 12:02	SP-CS05	0.0	No Staining	No Odor	Yes	Lab	ESTIMATED VOLUME OF IMPACTS:				
10/24/2022 12:10	FL-B04@3'	0.0	No Staining	No Odor	Yes	Lab	Date	Number	CY		
10/24/2022 17:10	FL-B05@4'	0.0	Organic Cont	No Odor	Yes	Lab					
10/25/2022 17:120	BG01@10'	-	-	-	No	Lab					
							Total Removed		0	0	
							Disposal Facility:				
							Groundwater Recovery				
							DATE GW ENCOUNTERED:		DEPTH:		
							GROUNDWATER IN CONTACT WITH IMPACTED SOIL?				
							LNAPL OR SHEEN OBSERVED ON GW?				
GROUNDWATER SAMPLING							Date	BBS			
Date/Time	Groundwater Sample ID	Depth Collected	Turbid?	Sheen?	Odor?	Photo?					
							Total Removed		0		
							Disposal Facility:				



Photographic Log



Equipment ID:		Equipment Type:		Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:		Material:	Volume:	Contents:	
Notes/Conditions:				Notes/Conditions:			



Equipment ID:		Equipment Type:		Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:		Material:	Volume:	Contents:	
Notes/Conditions: Facing West				Notes/Conditions: Facing South			

Photographic Log

							
Equipment ID:		Equipment Type:		Equipment ID:		Equipment Type:	
Material:		Volume:		Material:		Volume:	
Contents:				Contents:			
Notes/Conditions: Facing east				Notes/Conditions: Facing east			

					
Equipment ID:		Equipment Type:	Equipment ID:		Equipment Type:
Material:	Volume:	Contents:	Material:	Volume:	Contents:
Notes/Conditions: Facing east			Notes/Conditions: Facing South		



Equipment ID:		Equipment Type:		Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:		Material:	Volume:	Contents:	
Notes/Conditions: Facing West				Notes/Conditions:			

FIGURES

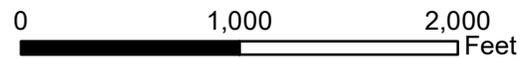
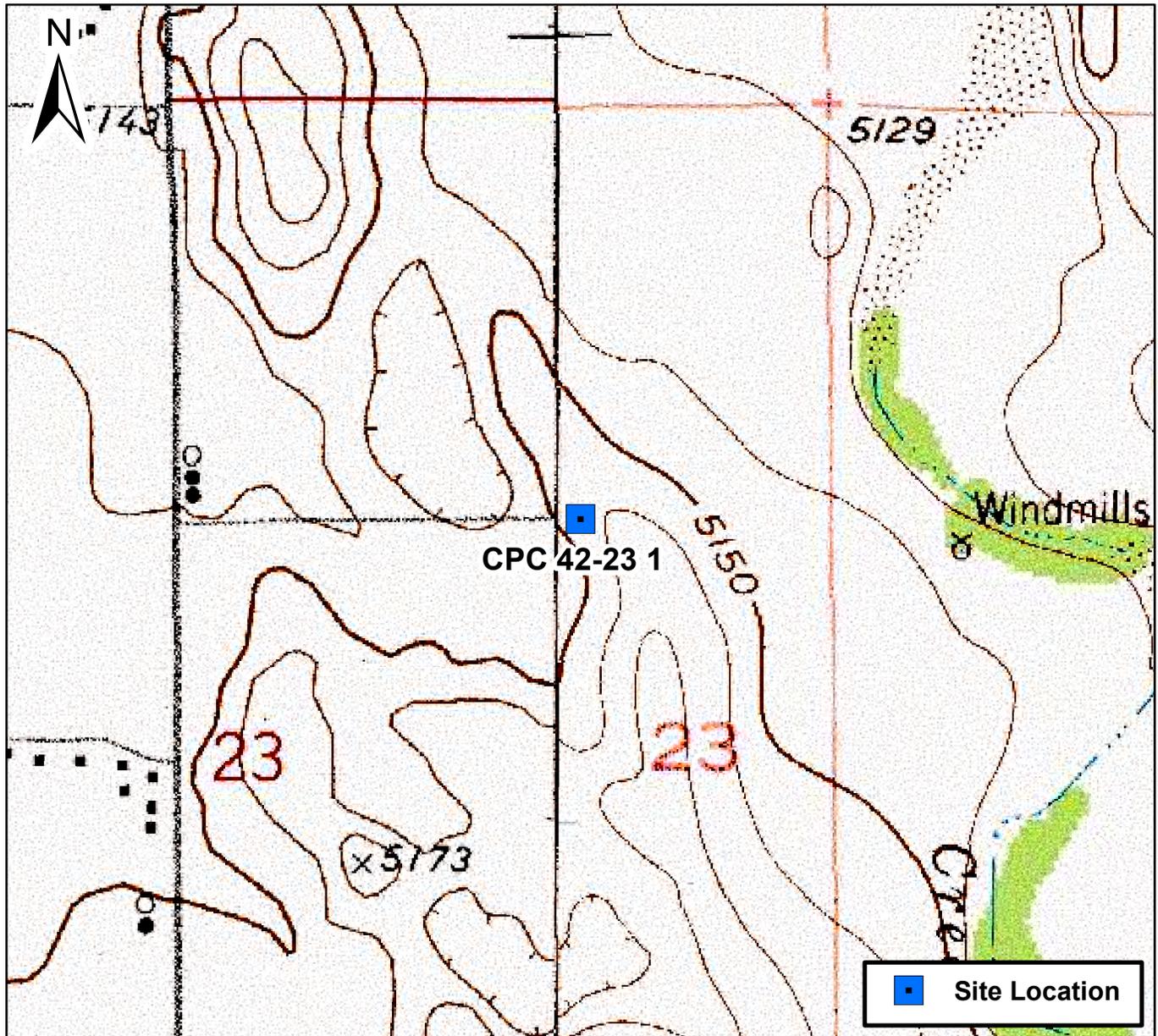
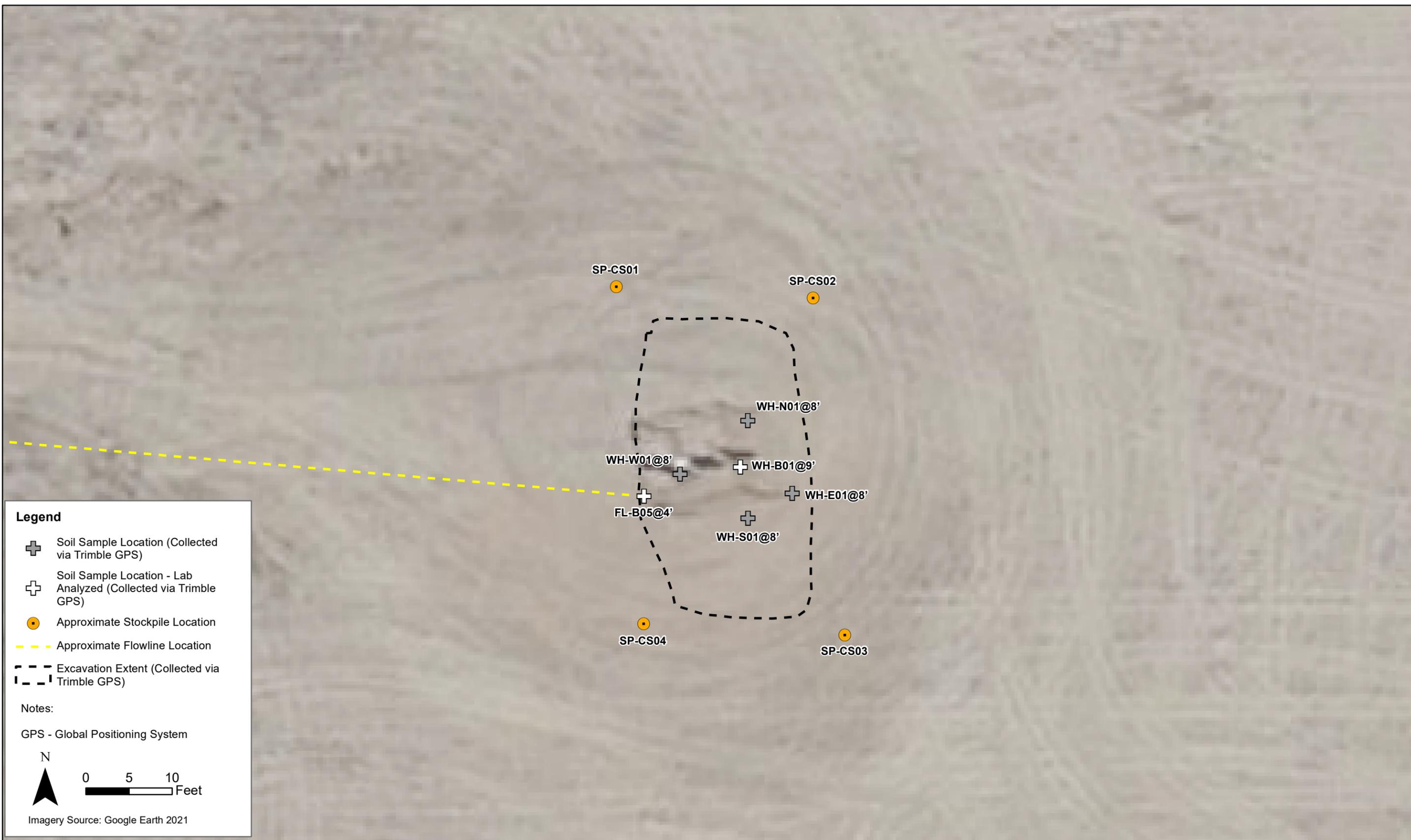


Figure 1

Site Location Map
 CPC 42-23 1
 SENE Sec. 23-T1S-R65W
 Adams County, Colorado





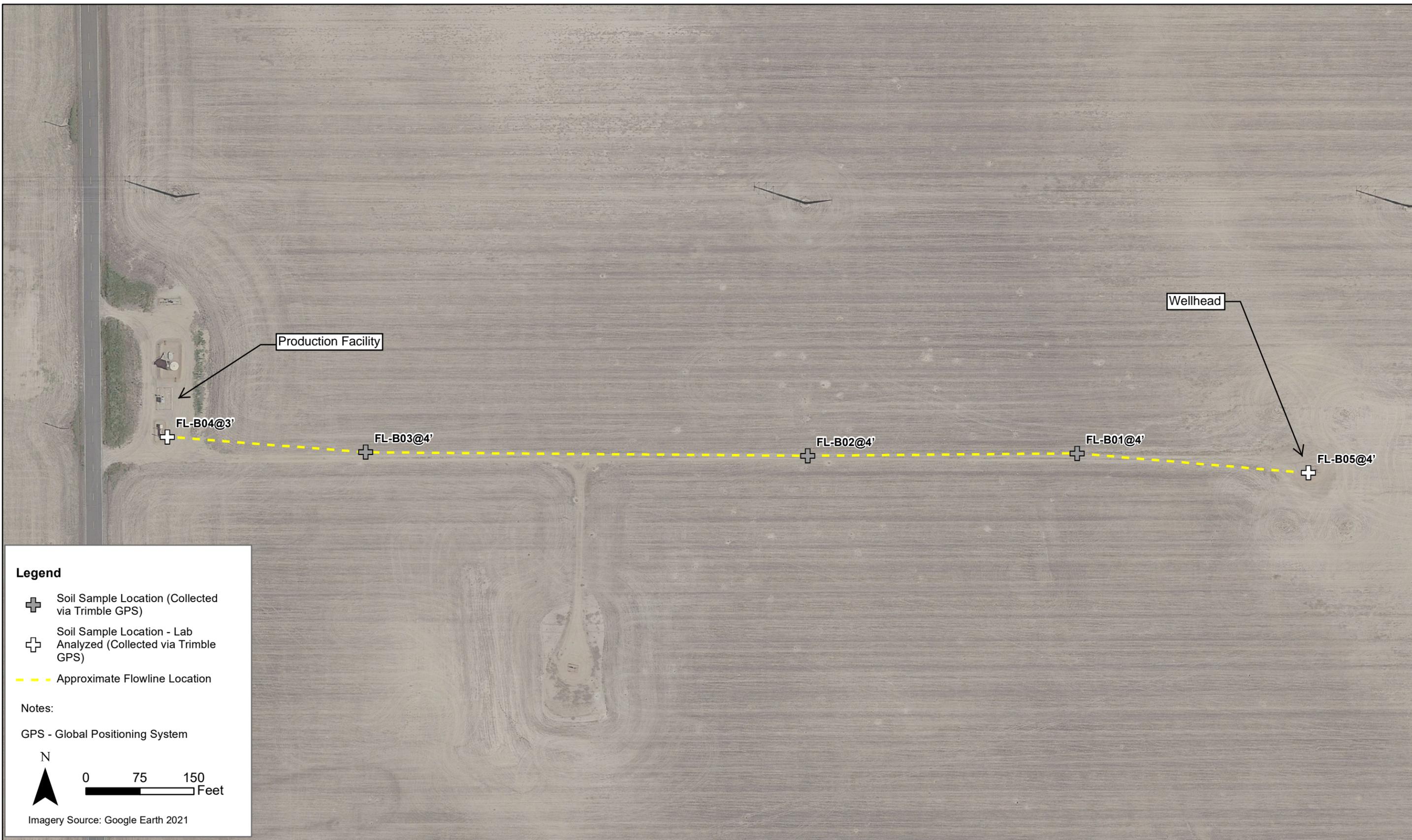
DATE:	November 2022
DESIGNED BY:	S. Vogt
DRAWN BY:	L. Reed

 **TASMAN** Tasman, Inc.
6855 W. 119th Ave
Broomfield, CO 80020

Extraction Oil & Gas, Inc.
CPC 42-23 1
SENE Sec. 23-T1S-R65W
Adams County, Colorado

Wellhead Soil Sample
Location Map

Figure
2A



DATE:	November 2022
DESIGNED BY:	S. Vogt
DRAWN BY:	L. Reed


Tasman, Inc.
 6855 W. 119th Ave
 Broomfield, CO 80020

Extraction Oil & Gas, Inc.
CPC 42-23 1
 SENE Sec. 23-T1S-R65W
 Adams County, Colorado

Flowline Soil Sample Location Map

Figure 2B

TABLES

TABLE 1
CPC 42-23 1



SOIL SAMPLE LOCATIONS
EXTRACTION OIL GAS, INC.

Soil Sample Location	Date	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	GPS PDOP Value	Lab (Y/N)
FL-B01@4'	10/24/2022	0.3	No Staining	No Odor	39.95283107	-104.6263178	1.1	N
FL-B02@4'	10/24/2022	0.3	No Staining	No Odor	39.9528263	-104.6276526	1.1	N
FL-B03@4'	10/24/2022	0.2	No Staining	No Odor	39.95284657	-104.629843	1.1	N
FL-B04@3'	10/24/2022	0	No Staining	No Odor	39.95290858	-104.6308261	1.4	Y
FL-B05@4'	10/24/2022	0	Organic Cont	No Odor	39.95275233	-104.6251715	1.1	Y
SP-CS01	10/24/2022	1.5	No Staining	No Odor	-	-	-	Y
SP-CS02	10/24/2022	2.9	No Staining	No Odor	-	-	-	Y
SP-CS03	10/24/2022	0.1	No Staining	No Odor	-	-	-	Y
SP-CS04	10/24/2022	0	No Staining	No Odor	-	-	-	Y
SP-CS05	10/24/2022	0	No Staining	No Odor	-	-	-	Y
WH-B01@9'	10/24/2022	2.4	No Staining	No Odor	39.95276146	-104.6251317	1.2	Y
WH-E01@8'	10/24/2022	0.3	No Staining	No Odor	39.95275296	-104.6251103	1.1	N
WH-N01@8'	10/24/2022	1.7	No Staining	No Odor	39.95277623	-104.6251286	1.1	N
WH-S01@8'	10/24/2022	0.4	No Staining	No Odor	39.95274512	-104.6251285	1	N
WH-W01@8'	10/24/2022	1.4	No Staining	No Odor	39.9527593	-104.6251567	1.1	N
BG01@10'	10/25/2022	-	-	-	-	-	-	Y

Notes:

ft. bgs = Feet below ground surface

PID = Photoionization detector

ppm = Parts per million

HC = Hydrocarbon

GPS = Global positioning system

PDOP = Position dilution of precision

NA = Not Applicable

TABLE 2
CPC 42-23 1
SOIL ANALYTICAL DATA - VOCs
EXTRACTION OIL GAS, INC.

Soil Sample Location	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
COGCC standards for soil (mg/kg)⁽¹⁾		0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
COGCC standards for soil (mg/kg)⁽²⁾		1.2	490	5.8	58	2	500			30	27
FL-B04@3'	10/24/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
FL-B05@4'	10/24/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
SP-CS01	10/24/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	320	340	<0.0050	<0.0050
SP-CS02	10/24/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	530	410	<0.0050	<0.0050
SP-CS03	10/24/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	120	200	<0.0050	<0.0050
SP-CS04	10/24/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	220	250	<0.0050	<0.0050
SP-CS05	10/24/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050
WH-B01@9'	10/24/2022	<0.0020	<0.0050	<0.0050	<0.010	<0.0038	<0.50	<50	<50	<0.0050	<0.0050

Notes:

VOCs = Volatile Organic Compounds

(1) Standards for soil are taken from COGCC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

(2) Standards for soil are taken from COGCC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = Milligrams per kilogram

TVPH - GRO = Total volatile petroleum hydrocarbons - gasoline range organics

TEPH - DRO = Total extractable petroleum hydrocarbons - diesel range organics

TEPH - ORO = Total extractable petroleum hydrocarbons - oil range organics

1,2,4 - TMB = 1,2,4 - Trimethylbenzene

1,3,5 - TMB = 1,3,5 - Trimethylbenzene

BOLD = Analytical result is in exceedance of COGCC Table 915-1 soil standards

TABLE 3
CPC 42-23 1
SOIL ANALYTICAL DATA - PAHs
EXTRACTION OIL GAS, INC.

Soil Sample Location	Date	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)A (mg/kg)	Benzo(b)F (mg/kg)	Benzo(k)F (mg/kg)	Benzo(a)P (mg/kg)	Chrysene (mg/kg)	D (a,h) A (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	1-M (mg/kg)	2-M (mg/kg)	Pyrene (mg/kg)
COGCC standards for soil (mg/kg) ⁽¹⁾		0.55	5.8	0.011	0.3	2.9	0.24	9	0.96	8.9	0.54	0.98	0.006	0.019	1.3
COGCC standards for soil (mg/kg) ⁽²⁾		360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
FL-B04@3'	10/24/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
FL-B05@4'	10/24/2022	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
WH-B01@9'	10/24/2022	<0.00500	<0.00500	<0.00500	0.00868	<0.00500	<0.00500	0.0124	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Notes:

PAHs = Polycyclic Aromatic Hydrocarbons

(1) Standards for soil are taken from COGCC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

(2) Standards for soil are taken from COGCC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = Milligrams per kilogram

Benzo(a)A = Benzo(a)anthracene

Benzo(b)F = Benzo(b)fluoranthene

Benzo(k)F = Benzo(k)fluoranthene

Benzo(a)P = Benzo(a)pyrene

D (a,h) A = Dibenz(a,h)anthracene

1,2,3-CD = Indeno(1,2,3-cd)pyrene

1-M = 1-Methylnaphthalene

2-M = 2-Methylnaphthalene

BOLD = Analytical result is in exceedance of COGCC Table 915-1 soil standards

TABLE 4
CPC 42-23 1



SOIL ANALYTICAL DATA - SOIL RECLAMATION
EXTRACTION OIL GAS, INC.

Soil Sample Location	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
COGCC standards for soil (mg/kg) ⁽¹⁾		6 - 8.3	< 6	< 4	2
FL-B04@3'	10/24/2022	7.97	0.791	0.832	0.135
FL-B05@4'	10/24/2022	8.09	0.227	0.213	0.0127
WH-B01@9'	10/24/2022	7.51	0.0735	0.143	<0.0100
BACKGROUND					
BG01@10'	10/25/2022	8.32	0.107	0.0846	<0.0100

Notes:

(1) Standards for soil are taken from COGCC Table 915-1, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

ft. bgs = Feet below ground surface

mmhos/cm = Millmhos per centimeter

mg/L = Milligrams per liter

SAR = Sodium Adsorption Ratio

EC = Electrical Conductivity

BOLD = Analytical result is in exceedance of COGCC Table 915-1 soil standards

* Result exceeded the COGCC Table 915-1 standard, but was within background levels

LABORATORY ANALYTICAL DATA

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 03, 2022

Sam Vogt

Civitas Resources

650 Southgate Drive

Windsor, CO 80550

RE: CPC 42-23 1 Wellhead

Work Order #2210440

Enclosed are the results of analyses for samples received by Summit Scientific on 10/25/22 10:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', written in a cursive style.

Paul Shrewsbury

President



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: CPC 42-23 1 Wellhead

Project Number: [none]
Project Manager: Sam Vogt

Reported:
11/03/22 07:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@9'	2210440-01	Soil	10/24/22 11:36	10/25/22 10:00
FL-B04@3'	2210440-02	Soil	10/24/22 12:10	10/25/22 10:00
SP-CS01	2210440-03	Soil	10/24/22 11:52	10/25/22 10:00
SP-CS02	2210440-04	Soil	10/24/22 11:55	10/25/22 10:00
SP-CS03	2210440-05	Soil	10/24/22 11:56	10/25/22 10:00
SP-CS04	2210440-06	Soil	10/24/22 11:59	10/25/22 10:00
SP-CS05	2210440-07	Soil	10/24/22 12:02	10/25/22 10:00
FL-B05@4'	2210440-08	Soil	10/24/22 00:00	10/25/22 10:00

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.

Summit Scientific

2210440

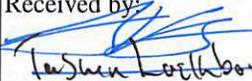
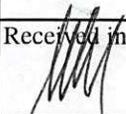
741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: Civitas Tasman
Address: 6855 W. 119th Ave
City/State/Zip: Broomfield, CO 80020
Phone: 610-405-9078 Fax:
Sampler Name: DH & SK

Project Manager: Sam Vogt, Jacob Evans
E-Mail: Svogt@tasman-gco.com, Jevans@civiresources.com
Project Name: ~~XXXXXXXXXX~~ CPC 42.23# Wellhead
Project Number: DH

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:								Special Instructions		
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	TPH	PAHs	TMBs	Naph	BTEX	EC*	PH*		SAR*	Boron**
WH-B01@9'	10.24.22	11:36	2			X			X				X	X	X	X	X	X	X	X	* sat pasls * HWS
FL-B04@3'		12:10	2										X	X	X	X	X	X	X	X	
SP-CS01		11:52	1												X	X	X				
SP-CS02		11:55													X	X	X				
SP-CS03		11:56													X	X	X				
SP-CS04		11:59													X	X	X				
SP-CS05	▼	12:02	▼												X	X	X				
FL-B05@4'	▼		▼										X	X	X	X	X	X	X	X	

Relinquished by: 	Date/Time: <u>10.25.22</u>	Received by: 	Date/Time: <u>09:30</u>	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/>	Notes:
Relinquished by: 	Date/Time: <u>10/25/22</u>	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received in Lab by: 	Date/Time: <u>10.25.22 1500</u>		

S₂

S2 Work Order# 2210440

Sample Receipt Checklist

Client: C. V. Iastkasan Client Project ID: CPC 42-23 wellhead

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

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) 2.6

Thermometer # 22

	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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 ²⁺), Hexavalent Chromium (Cr ⁶⁺ , 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? ⁽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.

[Signature]
Custodian Printed Name

10.25.22
Date/Time



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: CPC 42-23 1 Wellhead

Project Number: [none]
Project Manager: Sam Vogt

Reported:
11/03/22 07:09

WH-B01@9'
2210440-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/22 11:36**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFJ0726	10/26/22	10/28/22	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: **10/24/22 11:36**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0481	120 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0444	111 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0437	109 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/22 11:36**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFJ0729	10/26/22	10/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/24/22 11:36**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	12.6	101 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: CPC 42-23 1 Wellhead

Project Number: [none]
Project Manager: Sam Vogt

Reported:
11/03/22 07:09

WH-B01@9'
2210440-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/24/22 11:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0744	10/27/22	10/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.00868	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.0124	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: **10/24/22 11:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0298	89.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0282	84.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/24/22 11:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BFJ0710	10/26/22	10/26/22	EPA 6020B	

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

Date Sampled: **10/24/22 11:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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: CPC 42-23 1 Wellhead

Project Number: [none]
Project Manager: Sam Vogt

Reported:
11/03/22 07:09

WH-B01@9'
2210440-01 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	41.0	0.0548	mg/L dry	1	BFJ0734	10/26/22	10/28/22	EPA 6020B	
Magnesium	10.9	0.0548	"	"	"	"	"	"	
Sodium	2.05	0.0548	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/24/22 11:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0735	0.00100	units	1	BFJ0843	10/31/22	10/31/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/22 11:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.3		%	1	BFJ0713	10/26/22	10/26/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/24/22 11:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.143	0.0100	mmhos/cm	1	BFJ0784	10/27/22	11/02/22	EPA 120.1	

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

Date Sampled: **10/24/22 11:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.51		pH Units	1	BFJ0785	10/27/22	11/02/22	EPA 9045D	

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: CPC 42-23 1 Wellhead

Project Number: [none]
Project Manager: Sam Vogt

Reported:
11/03/22 07:09

FL-B04@3'
2210440-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/22 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFJ0726	10/26/22	10/28/22	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: **10/24/22 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0475	119 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0451	113 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0426	107 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/22 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFJ0729	10/26/22	10/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/24/22 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	12.0	95.8 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: CPC 42-23 1 Wellhead

Project Number: [none]
Project Manager: Sam Vogt

Reported:
11/03/22 07:09

FL-B04@3'
2210440-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/24/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0744	10/27/22	10/28/22	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: **10/24/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0316	94.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0277	83.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/24/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.135	0.0100	mg/L	1	BFJ0710	10/26/22	10/26/22	EPA 6020B	

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

Date Sampled: **10/24/22 12:10**

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

Project: CPC 42-23 1 Wellhead

Project Number: [none]
Project Manager: Sam Vogt

Reported:
11/03/22 07:09

FL-B04@3'
2210440-02 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	79.1	0.0588	mg/L dry	1	BFJ0734	10/26/22	10/28/22	EPA 6020B	
Magnesium	27.3	0.0588	"	"	"	"	"	"	
Sodium	32.0	0.0588	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/24/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.791	0.00100	units	1	BFJ0843	10/31/22	10/31/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.0		%	1	BFJ0713	10/26/22	10/26/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/24/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.832	0.0100	mmhos/cm	1	BFJ0784	10/27/22	11/02/22	EPA 120.1	

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

Date Sampled: **10/24/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.97		pH Units	1	BFJ0785	10/27/22	11/02/22	EPA 9045D	

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: CPC 42-23 1 Wellhead

Project Number: [none]
Project Manager: Sam Vogt

Reported:
11/03/22 07:09

SP-CS01
2210440-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/22 11:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFJ0726	10/26/22	10/28/22	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: **10/24/22 11:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0446	111 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0445	111 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0436	109 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/22 11:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	320	50		mg/kg	1	BFJ0839	10/31/22	10/31/22	EPA 8015M	
C28-C36 (ORO)	340	50		"	"	"	"	"	"	

Date Sampled: **10/24/22 11:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	12.7	102 %		30-150		"	"	"	"	

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: CPC 42-23 1 Wellhead

Project Number: [none]
Project Manager: Sam Vogt

Reported:
11/03/22 07:09

SP-CS02
2210440-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/22 11:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFJ0726	10/26/22	10/28/22	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: **10/24/22 11:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0471	118 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0481	120 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0441	110 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/22 11:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	530	50		mg/kg	1	BFJ0839	10/31/22	10/31/22	EPA 8015M	
C28-C36 (ORO)	410	50		"	"	"	"	"	"	

Date Sampled: **10/24/22 11:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	13.3	107 %		30-150		"	"	"	"	

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: CPC 42-23 1 Wellhead

Project Number: [none]
Project Manager: Sam Vogt

Reported:
11/03/22 07:09

SP-CS03
2210440-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/22 11:56**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFJ0726	10/26/22	10/28/22	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: **10/24/22 11:56**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0486	122 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0443	111 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0460	115 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/22 11:56**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	120	50		mg/kg	1	BFJ0839	10/31/22	10/31/22	EPA 8015M	
C28-C36 (ORO)	200	50		"	"	"	"	"	"	

Date Sampled: **10/24/22 11:56**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	13.1	105 %		30-150		"	"	"	"	

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: CPC 42-23 1 Wellhead

Project Number: [none]
Project Manager: Sam Vogt

Reported:
11/03/22 07:09

SP-CS04
2210440-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/22 11:59**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFJ0726	10/26/22	10/28/22	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: **10/24/22 11:59**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0473	118 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0451	113 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0428	107 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/22 11:59**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	220	50		mg/kg	1	BFJ0839	10/31/22	10/31/22	EPA 8015M	
C28-C36 (ORO)	250	50		"	"	"	"	"	"	

Date Sampled: **10/24/22 11:59**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	12.3	98.1 %		30-150		"	"	"	"	

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: CPC 42-23 1 Wellhead

Project Number: [none]
Project Manager: Sam Vogt

Reported:
11/03/22 07:09

SP-CS05
2210440-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/22 12:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BFJ0726	10/26/22	10/28/22	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: **10/24/22 12:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0441	110 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0438	110 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0428	107 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/22 12:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0839	10/31/22	11/01/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/24/22 12:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	14.1	113 %	30-150	"	"	"	"	"	

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: CPC 42-23 1 Wellhead

Project Number: [none]
Project Manager: Sam Vogt

Reported:
11/03/22 07:09

FL-B05@4'
2210440-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/24/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0726	10/26/22	10/28/22	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: **10/24/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0392	98.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0496	124 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0442	110 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/24/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0729	10/26/22	10/27/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/24/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.9	94.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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FL-B05@4'
2210440-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/24/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0744	10/27/22	10/28/22	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: **10/24/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0313	93.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0279	83.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/24/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0127	0.0100	mg/L	1	BFJ0710	10/26/22	10/26/22	EPA 6020B	

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

Date Sampled: **10/24/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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2210440-08 (Soil)

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	26.6	0.0538	mg/L dry	1	BFJ0734	10/26/22	10/28/22	EPA 6020B	
Magnesium	7.18	0.0538	"	"	"	"	"	"	
Sodium	5.12	0.0538	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/24/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.227	0.00100	units	1	BFJ0843	10/31/22	10/31/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/24/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.9		%	1	BFJ0713	10/26/22	10/26/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/24/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.213	0.0100	mmhos/cm	1	BFJ0784	10/27/22	11/02/22	EPA 120.1	

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

Date Sampled: **10/24/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.09		pH Units	1	BFJ0785	10/27/22	11/02/22	EPA 9045D	

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Project Manager: Sam Vogt

Reported:
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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 BFJ0726 - EPA 5030 Soil MS

Blank (BFJ0726-BLK1)

Prepared: 10/26/22 Analyzed: 10/28/22

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0384</i>		<i>"</i>	<i>0.0400</i>		<i>95.9</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0454</i>		<i>"</i>	<i>0.0400</i>		<i>113</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0427</i>		<i>"</i>	<i>0.0400</i>		<i>107</i>	<i>50-150</i>			

LCS (BFJ0726-BS1)

Prepared: 10/26/22 Analyzed: 10/28/22

Benzene	0.0840	0.0020	mg/kg	0.100		84.0	70-130			
Toluene	0.0749	0.0050	"	0.100		74.9	70-130			
Ethylbenzene	0.0761	0.0050	"	0.100		76.1	70-130			
m,p-Xylene	0.151	0.010	"	0.200		75.4	70-130			
o-Xylene	0.0791	0.0050	"	0.100		79.1	70-130			
1,2,4-Trimethylbenzene	0.0873	0.0050	"	0.100		87.3	70-130			
1,3,5-Trimethylbenzene	0.0853	0.0050	"	0.100		85.3	70-130			
Naphthalene	0.101	0.0038	"	0.100		101	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0393</i>		<i>"</i>	<i>0.0400</i>		<i>98.2</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0452</i>		<i>"</i>	<i>0.0400</i>		<i>113</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0434</i>		<i>"</i>	<i>0.0400</i>		<i>109</i>	<i>50-150</i>			

Matrix Spike (BFJ0726-MS1)

Source: 2210414-01

Prepared: 10/26/22 Analyzed: 10/28/22

Benzene	0.0835	0.0020	mg/kg	0.100	ND	83.5	70-130			
Toluene	0.0785	0.0050	"	0.100	ND	78.5	70-130			
Ethylbenzene	0.0759	0.0050	"	0.100	ND	75.9	70-130			
m,p-Xylene	0.150	0.010	"	0.200	ND	74.8	70-130			
o-Xylene	0.0778	0.0050	"	0.100	ND	77.8	70-130			
1,2,4-Trimethylbenzene	0.0867	0.0050	"	0.100	ND	86.7	70-130			
1,3,5-Trimethylbenzene	0.0851	0.0050	"	0.100	ND	85.1	70-130			
Naphthalene	0.110	0.0038	"	0.100	ND	110	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0426</i>		<i>"</i>	<i>0.0400</i>		<i>107</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0483</i>		<i>"</i>	<i>0.0400</i>		<i>121</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0417</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>			

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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 BFJ0726 - EPA 5030 Soil MS

Matrix Spike Dup (BFJ0726-MSD1)	Source: 2210414-01			Prepared: 10/26/22 Analyzed: 10/28/22						
Benzene	0.0824	0.0020	mg/kg	0.100	ND	82.4	70-130	1.37	30	
Toluene	0.0752	0.0050	"	0.100	ND	75.2	70-130	4.26	30	
Ethylbenzene	0.0747	0.0050	"	0.100	ND	74.7	70-130	1.51	30	
m,p-Xylene	0.147	0.010	"	0.200	ND	73.7	70-130	1.48	30	
o-Xylene	0.0780	0.0050	"	0.100	ND	78.0	70-130	0.193	30	
1,2,4-Trimethylbenzene	0.0877	0.0050	"	0.100	ND	87.7	70-130	1.07	30	
1,3,5-Trimethylbenzene	0.0844	0.0050	"	0.100	ND	84.4	70-130	0.743	30	
Naphthalene	0.115	0.0038	"	0.100	ND	115	70-130	4.49	30	
Surrogate: 1,2-Dichloroethane-d4	0.0409		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0446		"	0.0400		111	50-150			
Surrogate: 4-Bromofluorobenzene	0.0435		"	0.0400		109	50-150			

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Project Number: [none]
Project Manager: Sam Vogt

Reported:
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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 BFJ0729 - EPA 3550A

Blank (BFJ0729-BLK1)

Prepared: 10/26/22 Analyzed: 10/27/22

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	11.6		"	12.5		92.6	30-150				

LCS (BFJ0729-BS1)

Prepared: 10/26/22 Analyzed: 10/27/22

C10-C28 (DRO)	478	50	mg/kg	500		95.6	70-130				
Surrogate: <i>o</i> -Terphenyl	10.8		"	12.5		86.6	30-150				

Matrix Spike (BFJ0729-MS1)

Source: 2210414-01

Prepared: 10/26/22 Analyzed: 10/27/22

C10-C28 (DRO)	436	50	mg/kg	500	ND	87.3	70-130				
Surrogate: <i>o</i> -Terphenyl	10.2		"	12.5		81.9	30-150				

Matrix Spike Dup (BFJ0729-MSD1)

Source: 2210414-01

Prepared: 10/26/22 Analyzed: 10/27/22

C10-C28 (DRO)	453	50	mg/kg	500	ND	90.7	70-130	3.81	20		
Surrogate: <i>o</i> -Terphenyl	10.7		"	12.5		85.6	30-150				

Batch BFJ0839 - EPA 3550A

Blank (BFJ0839-BLK1)

Prepared & Analyzed: 10/31/22

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.2		"	12.5		105	30-150				

LCS (BFJ0839-BS1)

Prepared & Analyzed: 10/31/22

C10-C28 (DRO)	436	50	mg/kg	500		87.1	70-130				
Surrogate: <i>o</i> -Terphenyl	13.2		"	12.5		105	30-150				

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Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFJ0839 - EPA 3550A

Matrix Spike (BFJ0839-MS1)		Source: 2210440-03			Prepared & Analyzed: 10/31/22						
C10-C28 (DRO)	983	50	mg/kg	500	322	132	70-130				QM-07
Surrogate: <i>o</i> -Terphenyl	11.3		"	12.5		90.2	30-150				
Matrix Spike Dup (BFJ0839-MSD1)		Source: 2210440-03			Prepared & Analyzed: 10/31/22						
C10-C28 (DRO)	1130	50	mg/kg	500	322	162	70-130	14.2	20		QM-07
Surrogate: <i>o</i> -Terphenyl	13.2		"	12.5		105	30-150				

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PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFJ0744 - EPA 5030 Soil MS

Blank (BFJ0744-BLK1)

Prepared & Analyzed: 10/27/22

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>0.0341</i>		"	<i>0.0333</i>		<i>102</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0364</i>		"	<i>0.0333</i>		<i>109</i>		<i>40-150</i>		

LCS (BFJ0744-BS1)

Prepared & Analyzed: 10/27/22

Acenaphthene	0.0339	0.00500	mg/kg	0.0333		102		31-137		
Anthracene	0.0350	0.00500	"	0.0333		105		30-120		
Benzo (a) anthracene	0.0310	0.00500	"	0.0333		93.1		30-120		
Benzo (a) pyrene	0.0290	0.00500	"	0.0333		87.0		30-120		
Benzo (b) fluoranthene	0.0293	0.00500	"	0.0333		87.9		30-120		
Benzo (k) fluoranthene	0.0298	0.00500	"	0.0333		89.4		30-120		
Chrysene	0.0310	0.00500	"	0.0333		93.0		30-120		
Dibenz (a,h) anthracene	0.0269	0.00500	"	0.0333		80.6		30-120		
Fluoranthene	0.0325	0.00500	"	0.0333		97.4		30-120		
Fluorene	0.0334	0.00500	"	0.0333		100		30-120		
Indeno (1,2,3-cd) pyrene	0.0270	0.00500	"	0.0333		81.1		30-120		
Pyrene	0.0302	0.00500	"	0.0333		90.5		35-142		
1-Methylnaphthalene	0.0354	0.00500	"	0.0333		106		35-142		
2-Methylnaphthalene	0.0346	0.00500	"	0.0333		104		35-142		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0337</i>		"	<i>0.0333</i>		<i>101</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0332</i>		"	<i>0.0333</i>		<i>99.5</i>		<i>40-150</i>		

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PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFJ0744 - EPA 5030 Soil MS

Matrix Spike (BFJ0744-MS1)		Source: 2210392-02			Prepared: 10/27/22 Analyzed: 10/31/22	
Acenaphthene	0.0212	0.00500	mg/kg	0.0333	ND	63.7 31-137
Anthracene	0.0219	0.00500	"	0.0333	ND	65.6 30-120
Benzo (a) anthracene	0.0197	0.00500	"	0.0333	ND	59.0 30-120
Benzo (a) pyrene	0.0182	0.00500	"	0.0333	ND	54.7 30-120
Benzo (b) fluoranthene	0.0228	0.00500	"	0.0333	ND	68.5 30-120
Benzo (k) fluoranthene	0.0191	0.00500	"	0.0333	ND	57.2 30-120
Chrysene	0.0202	0.00500	"	0.0333	ND	60.5 30-120
Dibenz (a,h) anthracene	0.0152	0.00500	"	0.0333	ND	45.7 30-120
Fluoranthene	0.0218	0.00500	"	0.0333	ND	65.5 30-120
Fluorene	0.0213	0.00500	"	0.0333	ND	63.8 30-120
Indeno (1,2,3-cd) pyrene	0.0233	0.00500	"	0.0333	ND	69.9 30-120
Pyrene	0.0167	0.00500	"	0.0333	ND	50.0 35-142
1-Methylnaphthalene	0.0198	0.00500	"	0.0333	ND	59.5 15-130
2-Methylnaphthalene	0.0322	0.00500	"	0.0333	ND	96.6 15-130
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0177</i>		"	<i>0.0333</i>		<i>53.2 40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0226</i>		"	<i>0.0333</i>		<i>67.9 40-150</i>

Matrix Spike Dup (BFJ0744-MSD1)		Source: 2210392-02			Prepared: 10/27/22 Analyzed: 10/31/22	
Acenaphthene	0.0214	0.00500	mg/kg	0.0333	ND	64.2 31-137 0.762 30
Anthracene	0.0221	0.00500	"	0.0333	ND	66.3 30-120 1.10 30
Benzo (a) anthracene	0.0193	0.00500	"	0.0333	ND	57.8 30-120 2.11 30
Benzo (a) pyrene	0.0182	0.00500	"	0.0333	ND	54.7 30-120 0.144 30
Benzo (b) fluoranthene	0.0177	0.00500	"	0.0333	ND	53.1 30-120 25.4 30
Benzo (k) fluoranthene	0.0180	0.00500	"	0.0333	ND	53.9 30-120 5.90 30
Chrysene	0.0190	0.00500	"	0.0333	ND	57.0 30-120 5.95 30
Dibenz (a,h) anthracene	0.0158	0.00500	"	0.0333	ND	47.4 30-120 3.63 30
Fluoranthene	0.0210	0.00500	"	0.0333	ND	63.0 30-120 3.96 30
Fluorene	0.0214	0.00500	"	0.0333	ND	64.3 30-120 0.761 30
Indeno (1,2,3-cd) pyrene	0.0167	0.00500	"	0.0333	ND	50.2 30-120 32.8 30
Pyrene	0.0182	0.00500	"	0.0333	ND	54.5 35-142 8.65 30
1-Methylnaphthalene	0.0220	0.00500	"	0.0333	ND	66.0 15-130 10.3 50
2-Methylnaphthalene	0.0253	0.00500	"	0.0333	ND	75.9 15-130 23.9 50
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0220</i>		"	<i>0.0333</i>		<i>65.9 40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0230</i>		"	<i>0.0333</i>		<i>69.1 40-150</i>

QR-02

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: CPC 42-23 1 Wellhead

Project Number: [none]
Project Manager: Sam Vogt

Reported:
11/03/22 07:09

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

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

Batch BFJ0710 - EPA 3050B

Blank (BFJ0710-BLK1)

Prepared & Analyzed: 10/26/22

Boron ND 0.0100 mg/L

LCS (BFJ0710-BS1)

Prepared & Analyzed: 10/26/22

Boron 5.48 0.0100 mg/L 5.00 110 80-120

Duplicate (BFJ0710-DUP1)

Source: 2210428-01

Prepared & Analyzed: 10/26/22

Boron 0.304 0.0100 mg/L 0.311 2.31 20

Matrix Spike (BFJ0710-MS1)

Source: 2210428-01

Prepared & Analyzed: 10/26/22

Boron 5.34 0.0100 mg/L 5.00 0.311 100 75-125

Matrix Spike Dup (BFJ0710-MSD1)

Source: 2210428-01

Prepared & Analyzed: 10/26/22

Boron 5.38 0.0100 mg/L 5.00 0.311 101 75-125 0.825 25

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: CPC 42-23 1 Wellhead

Project Number: [none]
Project Manager: Sam Vogt

Reported:
11/03/22 07:09

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 BFJ0734 - General Preparation

Blank (BFJ0734-BLK1)

Prepared: 10/26/22 Analyzed: 10/28/22

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

LCS (BFJ0734-BS1)

Prepared: 10/26/22 Analyzed: 10/28/22

Calcium	5.87	0.0500	mg/L wet	5.00	117	70-130
Magnesium	5.72	0.0500	"	5.00	114	70-130
Sodium	5.85	0.0500	"	5.00	117	70-130

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: CPC 42-23 1 Wellhead

Project Number: [none]
 Project Manager: Sam Vogt

Reported:
 11/03/22 07:09

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

Summit Scientific

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

Batch BFJ0713 - General Preparation

Duplicate (BFJ0713-DUP1)

Source: 2210323-01

Prepared & Analyzed: 10/26/22

% Solids	96.3		%		96.2			0.156		20	
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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: CPC 42-23 1 Wellhead

Project Number: [none]
Project Manager: Sam Vogt

Reported:
11/03/22 07:09

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

Summit Scientific

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

Batch BFJ0784 - General Preparation

Blank (BFJ0784-BLK1)

Prepared: 10/27/22 Analyzed: 11/02/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFJ0784-BS1)

Prepared: 10/27/22 Analyzed: 11/02/22

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 103 95-105

Duplicate (BFJ0784-DUP1)

Source: 2210392-01

Prepared: 10/27/22 Analyzed: 11/02/22

Specific Conductance (EC) 0.763 0.0100 mmhos/cm 0.772 1.12 20

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: CPC 42-23 1 Wellhead

Project Number: [none]
Project Manager: Sam Vogt

Reported:
11/03/22 07:09

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 BFJ0785 - General Preparation

LCS (BFJ0785-BS1)

Prepared: 10/27/22 Analyzed: 11/02/22

pH	9.04	pH Units	9.18	98.5	95-105
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Duplicate (BFJ0785-DUP1)

Source: 2210392-01

Prepared: 10/27/22 Analyzed: 11/02/22

pH	8.84	pH Units	8.86	0.226	20
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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: CPC 42-23 1 Wellhead

Project Number: [none]
Project Manager: Sam Vogt

Reported:
11/03/22 07:09

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.
- 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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 02, 2022

Sam Vogt

Civitas Resources

650 Southgate Drive

Windsor, CO 80550

RE: CPC 42-23 1 Wellhead

Work Order #2210497

Enclosed are the results of analyses for samples received by Summit Scientific on 10/26/22 18:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury

President



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: CPC 42-23 1 Wellhead

Project Number: [none]
Project Manager: Sam Vogt

Reported:
11/02/22 08:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG01@10'	2210497-01	Soil	10/25/22 17:20	10/26/22 18:00

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.

Summit Scientific

2210497

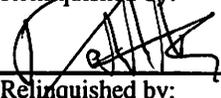
741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: Civitas/Tasman
Address: 6855 W. 119th Ave.
City/State/Zip: Broomfield, CO 80020
Phone: 610-405-9078 Fax:
Sampler Name: DH & SK

Project Manager: Sam Vogt, Jacob Evans
E-Mail: svogt@tasman-gco.com, jevans@civitasources.com
Project Name: CPC 42-25 #1 WH
Project Number:

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:				Special Instructions		
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	PH*	EC*	SAR*		BARON*	
B6101 @ 10'	10.25.22	17:20	1			X			X				X	X	X	X	* Sat. Paste ** Hot water

Relinquished by: 	Date/Time: 10.26.22 17:30	Received by: Tasman Lockbox	Date/Time: 10.26.22 17:30	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/>	Notes:
Relinquished by: Tasman Lockbox	Date/Time: 10/26/22 1800	Received by: 	Date/Time: 10/26/22 1800		
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:		

S₂

Sample Receipt Checklist

S2 Work Order# 2210497

Client: Civitas/Trasman Client Project ID: CPC 42-25 #1 WH

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"/>	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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 ²⁺), Hexavalent Chromium (Cr ⁶⁺ , 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? ⁽¹⁾	<input type="checkbox"/>	<input checked="" 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.

Custodian Printed Name

10-26-22 1800
Date/Time



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: CPC 42-23 1 Wellhead

Project Number: [none]
Project Manager: Sam Vogt

Reported:
11/02/22 08:26

BG01@10'
2210497-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/25/22 17:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BFJ0759	10/27/22	10/28/22	EPA 6020B	

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

Date Sampled: **10/25/22 17:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	23.9	0.0525	mg/L dry	1	BFJ0818	10/28/22	10/31/22	EPA 6020B	
Magnesium	9.39	0.0525	"	"	"	"	"	"	
Sodium	2.44	0.0525	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/25/22 17:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.107	0.00100	units	1	BFK0012	11/01/22	11/01/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/25/22 17:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.3		%	1	BFJ0797	10/28/22	10/28/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/25/22 17:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0846	0.0100	mmhos/cm	1	BFJ0827	10/28/22	10/31/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, 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: CPC 42-23 1 Wellhead

Project Number: [none]
 Project Manager: Sam Vogt

Reported:
 11/02/22 08:26

BG01@10'
2210497-01 (Soil)

Summit Scientific

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

Date Sampled: **10/25/22 17:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.32		pH Units	1	BFJ0826	10/28/22	10/31/22	EPA 9045D	

Summit Scientific



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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: CPC 42-23 1 Wellhead

Project Number: [none]
Project Manager: Sam Vogt

Reported:
11/02/22 08:26

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

Summit Scientific

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

Batch BFJ0759 - EPA 3050B

Blank (BFJ0759-BLK1)

Prepared & Analyzed: 10/27/22

Boron ND 0.0100 mg/L

LCS (BFJ0759-BS1)

Prepared & Analyzed: 10/27/22

Boron 5.43 0.0100 mg/L 5.00 109 80-120

Duplicate (BFJ0759-DUP1)

Source: 2210418-06

Prepared & Analyzed: 10/27/22

Boron 0.261 0.0100 mg/L 0.255 2.55 20

Matrix Spike (BFJ0759-MS1)

Source: 2210418-06

Prepared & Analyzed: 10/27/22

Boron 5.47 0.0100 mg/L 5.00 0.255 104 75-125

Matrix Spike Dup (BFJ0759-MSD1)

Source: 2210418-06

Prepared & Analyzed: 10/27/22

Boron 5.42 0.0100 mg/L 5.00 0.255 103 75-125 0.916 25

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: CPC 42-23 1 Wellhead

Project Number: [none]
Project Manager: Sam Vogt

Reported:
11/02/22 08:26

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 BFJ0818 - General Preparation

Blank (BFJ0818-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 (BFJ0818-BS1)

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

Calcium	5.00	0.0500	mg/L wet	5.00	100	70-130
Magnesium	5.54	0.0500	"	5.00	111	70-130
Sodium	5.55	0.0500	"	5.00	111	70-130

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: CPC 42-23 1 Wellhead

Project Number: [none]
 Project Manager: Sam Vogt

Reported:
 11/02/22 08:26

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 BFJ0797 - General Preparation

Duplicate (BFJ0797-DUP1)

Source: 2210497-01

Prepared & Analyzed: 10/28/22

% Solids	96.4		%		95.3			1.22	20	
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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: CPC 42-23 1 Wellhead

Project Number: [none]
Project Manager: Sam Vogt

Reported:
11/02/22 08:26

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

Summit Scientific

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

Batch BFJ0827 - General Preparation

Blank (BFJ0827-BLK1)

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

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFJ0827-BS1)

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

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 103 95-105

Duplicate (BFJ0827-DUP1)

Source: 2210478-01

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

Specific Conductance (EC) 0.809 0.0100 mmhos/cm 0.834 3.13 20

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: CPC 42-23 1 Wellhead

Project Number: [none]
Project Manager: Sam Vogt

Reported:
11/02/22 08:26

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 BFJ0826 - General Preparation

LCS (BFJ0826-BS1)

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

pH	9.03		pH Units	9.18		98.4	95-105		
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Duplicate (BFJ0826-DUP1)

Source: 2210478-01

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

pH	8.34		pH Units	8.28		0.722	20		
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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: CPC 42-23 1 Wellhead

Project Number: [none]
Project Manager: Sam Vogt

Reported:
11/02/22 08:26

Notes and Definitions

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