



FIGURES

Figure 1: Topographic Site Location Map

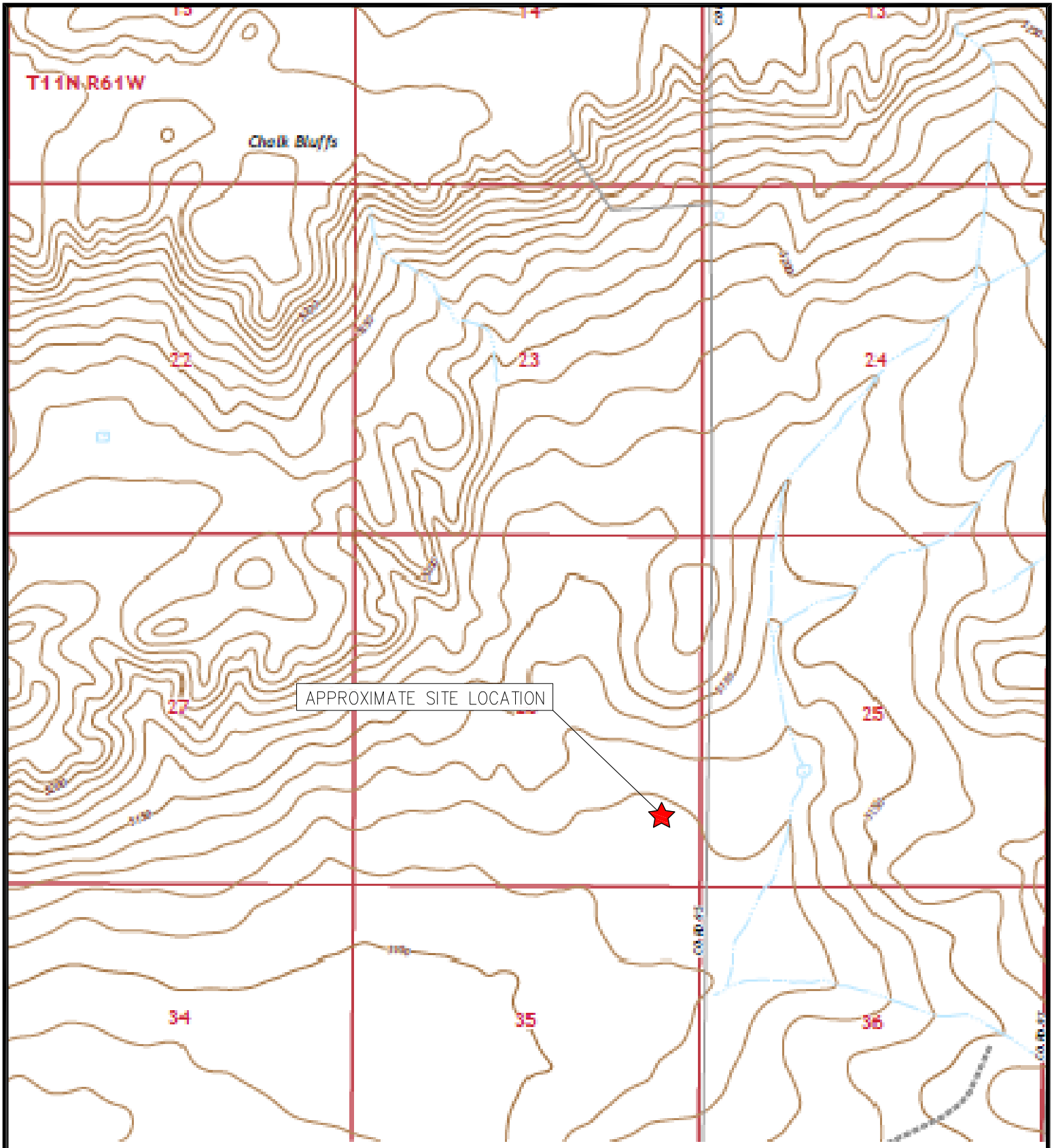
Figure 2: Aerial Site Location Map

Figure 3: Initial Assessment Soil Analytical Map

Figure 4: Initial Assessment Polycyclic Aromatic Hydrocarbons Map

Figure 5: Metals in Soil Map

Figure 6: Confirmation Soil Analytical Map

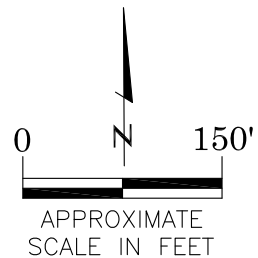


	<p>TOPOGRAPHIC SITE LOCATION MAP COX PC GK 26-99HZ VALVE RELEASE 40.888245 / -104.165144 SE¼ SE¼ SEC.26 T11N R61W 6PM WELD COUNTY, COLORADO LOCATION ID 418179 REMEDIATION # 26411</p>	<p>EAGLE ENVIRONMENTAL CONSULTING, LLC</p> <p>8000 W 44th Ave, Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>
<p>SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, GROVER NORTH, CO QUADRANGLE 2022</p>	<p>FIGURE 1</p>	



LEGEND

- COX PC GK 26-99HZ APPROXIMATE RELEASE LOCATION
- APPROXIMATE TANK BATTERY BOUNDARIES



AERIAL SITE LOCATION MAP

COX PC GK 26-99HZ
VALVE RELEASE
40.888245 / -104.165144
SE $\frac{1}{4}$ SE $\frac{1}{4}$ SEC.26 T11N R61W 6PM
WELD COUNTY, COLORADO
LOCATION ID 418179
REMEDIALION # 26411

DATE: 01/03/23

FIG. NO.
2

DRAWN BY:
IM



EAGLE
ENVIRONMENTAL
CONSULTING, LLC
8000 W 44th Ave, Wheat Ridge, CO 80033
Ph: 303-433-0479 • F: 303-325-5449



LEGEND

- INITIAL ASSESSMENT BOUNDARIES
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

(BRL) - ALL VALUES BELOW REGULATORY LIMITS

NOTES:
VALUES PRESENTED IN **BOLD** CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 REGULATORY LIMITS.

VALUES PRESENTED WITH AN ASTERISK (*) EXCEED COGCC TABLE 915-1 GROUNDWATER SOIL SCREENING LEVELS.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

INITIAL ASSESSMENT POLYCYCLIC AROMATIC

HYDROCARBONS MAP

COX PC GK 26-99HZ

VALVE RELEASE

40.888245 / -104.165144

SE 1/4 SEC. 26 T11N R61W 6PM

WELD COUNTY, COLORADO

LOCATION ID 418179

REMEDATION # 26411

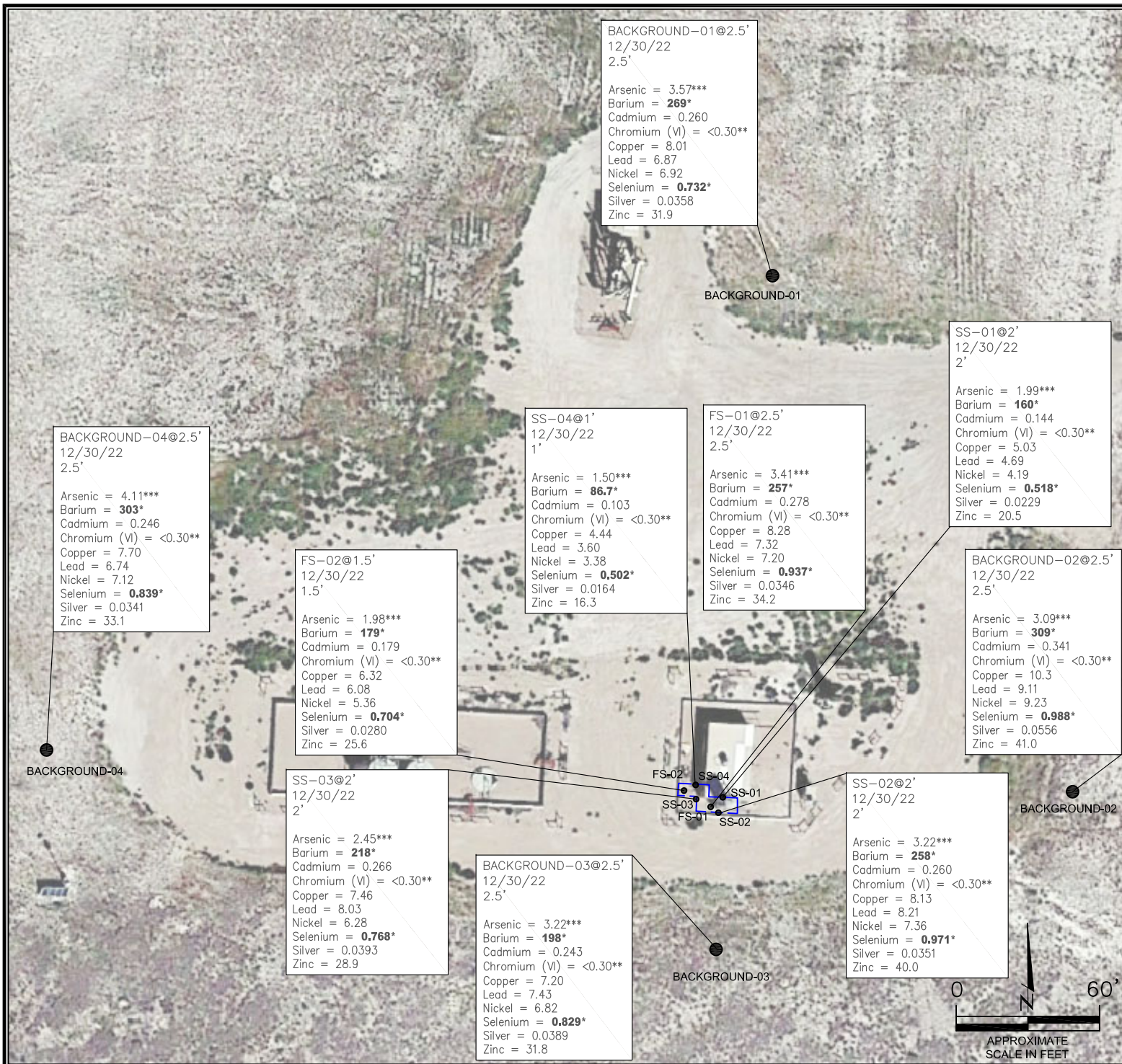
DATE:
03/02/23

DRAWN BY:
AMN

FIG.
NO. 4



EAGLE
ENVIRONMENTAL
CONSULTING, LLC
8900 W 44th Ave, Wheat Ridge, CO 80033
Ph: 303-433-0479 • F: 303-325-5449



LEGEND

- INITIAL ASSESSMENT BOUNDARIES
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH
Arsenic = (mg/kg)
Barium = (mg/kg)
Cadmium = (mg/kg)
Chromium (VI) = (mg/kg)
Copper = (mg/kg)
Lead = (mg/kg)
Nickel = (mg/kg)
Selenium = (mg/kg)
Silver = (mg/kg)
Zinc = (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

NOTES:
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT/OR ABOVE LABORATORY REPORTING LIMITS AND/OR MINIMUM DETECTION LIMITS.

VALUES PRESENTED IN **BOLD** VALUES CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 VALUES

VALUES PRESENTED WITH AN ASTERISK (*) EXCEED COGCC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS.

**ACHIEVABLE PRACTICAL QUANTITATIVE LIMITS FOR HEXAVALENT CHROMIUM (Cr VI) IN SOILS IS IN THE RANGE OF 0.1 TO 1 mg/kg.

***LOCAL "CLEAN-UP LEVEL" (4.38 mg/kg) IS 1.25*BACKGROUND AVERAGE (3.50 mg/kg).

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

METALS IN SOIL MAP
COX PC GK 26-99HZ
VALVE RELEASE
40.888245 / -104.165144
SE 1/4 SEC. 26 T11N R61W 6PM
WELD COUNTY, COLORADO
LOCATION ID 418179
REMEDIATION # 26411



EAGLE
ENVIRONMENTAL
CONSULTING, LLC
8900 W 44th Ave. Wheat Ridge, CO 80033
Ph: 303-433-0479 • F: 303-325-5449



LEGEND

- INITIAL ASSESSMENT BOUNDARIES
- OVER-EXCAVATION BOUNDARIES

● APPROXIMATE LOCATION OF SOIL SAMPLES
SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION
DATE
DEPTH (FEET)
B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
G = TPH-GRO (mg/kg)
D = TPH-DRO (mg/kg)
R = TPH-RRO (mg/kg)
1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)
1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)
Brn= BORON (mg/L)
EC = SPECIFIC CONDUCTANCE (mmhos/cm)
SAR= SODIUM ADSORPTION RATIO
pH = pH (pH UNITS)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM
mg/L = MILLIGRAMS PER LITER
mmhos/cm = MILLIMHOS PER CENTIMETER

BRL - ALL CONCENTRATIONS **BELOW** REGULATORY LIMITS

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS
TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS
TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

NOTES:
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS.

VALUES PRESENTED IN **BOLD** EXCEED COGCC TABLE 915-1 REGULATORY LIMITS.

VALUES PRESENTED WITH ASTERISK (*) EXCEED COGCC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

CONFIRMATION SOIL ANALYTICAL MAP

COX PC GK 26-99HZ
VALVE RELEASE
40.888245 / -104.165144
SE 1/4 SEC.26 T11N R61W 6PM
WELD COUNTY, COLORADO
LOCATION ID 418179
REMEDIATION # 26411

DATE:
03/02/23

DRAWN BY:
AMN

FIG.
NO. 6



EAGLE
ENVIRONMENTAL
CONSULTING, LLC
8900 W 44th Ave, Wheat Ridge, CO 80033
Ph: 303-433-0479 • F: 303-325-5449



TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
COX PC GK 26-99HZ
VALVE RELEASE
40.888245 / -104.165144
SE1/4 SE1/4 SEC.26 T11N R61W 6PM
WELD COUNTY, COLORADO
LOCATION ID 418179
REMEDIATION # 26411

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
SS-01 @ 2' (40.888249 / -104.165141)	12/30/22	2	1.1	Y
SS-02 @ 2' (40.888230 / -104.165137)	12/30/22	2	0.4	Y
SS-03 @ 2' (40.888235 / -104.165177)	12/30/22	2	0.9	Y
SS-04 @ 1' (40.888259 / -104.165186)	12/30/22	1	0.9	Y
FS-01 @ 2.5' (40.888237 / -104.165157)	12/30/22	2.5	0.6	Y
FS-02 @ 1.5' (40.888252 / -104.165191)	12/30/22	1.5	1.4	Y
Background-01 @ 2.5' (40.888857 / -104.165034)	12/30/22	2.5	0.9	Y
Background-02 @ 2.5' (40.888236 / -104.164614)	12/30/22	2.5	0.3	Y
Background-03 @ 2.5' (40.888075 / -104.165166)	12/30/22	2.5	0.2	Y
Background-04 @ 2.5' (40.888313 / -104.166201)	12/30/22	2.5	0.8	Y
CS-SS-01 @ 2.5' (40.888245 / -104.165152)	02/07/23	2.5	3.2	Y
CS-SS-02 @ 2.5' (40.888230 / -104.165151)	02/07/23	2.5	0.9	Y
CS-FS-01 @ 3' (40.888236 / -104.165152)	02/07/23	3	1.7	Y
CS-SS-03 @ 2.5' (40.888257 / -104.165146)	02/21/23	2.5	1.2	Y
CS-FS-02 @ 3' (40.888249 / -104.165148)	02/21/23	3	1.5	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
COX PC GK 26-99HZ
VALVE RELEASE
40.888245 / -104.165144
SE1/4 SE1/4 SEC.26 T11N R61W 6PM
WELD COUNTY, COLORADO
LOCATION ID 418179
REMEDATION # 26411

Sample Location (Latitude / Longitude)				SS-01 @ 2'	SS-02 @ 2'	SS-03 @ 2'	SS-04 @ 1'
Sample Date				12/30/2022	12/30/2022	12/30/2022	12/30/2022
Sample Depth				2'	2'	2'	1'
PID Reading (ppm-v)				1.1	0.4	0.9	0.9
Regulatory Limits							
Chemical of Concern	Units	COGCC Table 915-1 RSSLs	COGCC Table 915-1 GSSLs	Local Clean-Up Level			
VOCs							
Benzene	mg/kg	1.2	0.0026	--	<0.0020	<0.0020	<0.0020
Toluene	mg/kg	490	0.69	--	<0.0050	<0.0050	<0.0050
Ethylbenzene	mg/kg	5.8	0.78	--	<0.0050	<0.0050	<0.0050
Total Xylenes	mg/kg	58	9.9	--	<0.010	<0.010	<0.010
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	<0.0050	<0.0050	<0.0050
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	<0.0050	<0.0050	<0.0050
Total Petroleum Hydrocarbons							
TPH-GRO	mg/kg	500	--	--	<0.50	<0.50	<0.50
TPH-DRO	mg/kg	500	--	--	<50	150	<50
TPH-RRO	mg/kg	500	--	--	<50	<50	<50
Polycyclic Aromatics Hydrocarbons							
1-Methyl-naphthalene	mg/kg	18	0.006	--	<0.00500	0.00788*	<0.00500
2-Methyl-naphthalene	mg/kg	24	0.019	--	<0.00500	<0.00500	<0.00500
Acenaphthene	mg/kg	360	0.55	--	<0.00500	<0.00500	<0.00500
Anthracene	mg/kg	1800	5.8	--	<0.00500	<0.00500	<0.00500
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	<0.00500	<0.00500	<0.00500
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	<0.00500	<0.00500	<0.00500
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	<0.00500	<0.00500	<0.00500
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	<0.00500	<0.00500	<0.00500
Chrysene	mg/kg	110	9	--	<0.00500	0.00712	<0.00500
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	<0.00500	<0.00500	<0.00500
Fluoranthene	mg/kg	240	8.9	--	<0.00500	<0.00500	<0.00500
Fluorene	mg/kg	240	0.54	--	<0.00500	0.00941	<0.00500
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	<0.00500	<0.00500	<0.00500
Naphthalene	mg/kg	2	0.0038	--	<0.0038	<0.0038	<0.0038
Pyrene	mg/kg	180	1.3	--	<0.00500	<0.00500	<0.00500
Soil Suitability (Inorganics)							
Boron	mg/L	2	--	--	5.65	0.969	1.18
pH	standard unit	6-8.3	--	--	9.22	7.61	7.73
Sodium Adsorption Ratio (SAR)	--	<6	--	--	5.05	0.377	0.243
Specific Conductance (EC)	mmhos/cm	<4	--	--	1.62	0.473	0.404
Metals							
Arsenic	mg/kg	0.68***	0.29***	4.38***	1.99***	3.22***	2.45***
Barium	mg/kg	15000	82	--	160*	258*	218*
Cadmium	mg/kg	71	0.38	--	0.144	0.260	0.266
Copper	mg/kg	3100	46	--	5.03	8.13	7.46
Lead	mg/kg	400	14	--	4.69	8.21	8.03
Nickel	mg/kg	1500	26	--	4.19	7.36	6.28
Selenium	mg/kg	390	0.26	--	0.518*	0.971*	0.768*
Silver	mg/kg	390	0.8	--	0.0229	0.0351	0.0393
Zinc	mg/kg	23000	370	--	20.5	40	28.9
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	<0.30**	<0.30**	<0.30**
COGCC = Colorado Oil and Gas Conservation Commission mg/kg = milligrams per kilogram mmhos/cm = millimhos per centimeter PID = Photoionization Detector ppm-v = parts per million by volume mg/L = milligrams per liter SAR = Sodium Adsorption Ratio Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit. Values presented in BOLD exceed COGCC Table 915-1 Regulatory Limits. Values presented with asterisk (*) exceed COGCC Table 915-1 GSSLs. **Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg. ***Local clean-up level (4.38 mg/kg) is 1.25*Background average (3.50 mg/kg)							
VOCs - Volatile Organic Compounds NA - Not Analyzed RSSLs = Residential Soil Screening Levels GSSLs = Protection of Groundwater Soil Screening Levels TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics							

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
COX PC GK 26-99HZ
VALVE RELEASE
40.888245 / -104.165144
SE1/4 SE1/4 SEC.26 T11N R61W 6PM
WELD COUNTY, COLORADO
LOCATION ID 418179
REMEDATION # 26411

Sample Location (Latitude / Longitude)				FS-01 @ 2.5'	FS-02 @ 1.5'	Background-01 @ 2.5'	Background-02 @ 2.5'
Sample Date				12/30/2022	12/30/2022	12/30/2022	12/30/2022
Sample Depth				2.5'	1.5'	2.5'	2.5'
PID Reading (ppm-v)				0.6	1.4	0.9	0.3
Regulatory Limits							
Chemical of Concern	Units	COGCC Table 915-1 RSSLs	COGCC Table 915-1 GSSLs	Local Clean-Up Level			
VOCs							
Benzene	mg/kg	1.2	0.0026	--	<0.0020	<0.0020	NA
Toluene	mg/kg	490	0.69	--	<0.0050	<0.0050	NA
Ethylbenzene	mg/kg	5.8	0.78	--	<0.0050	<0.0050	NA
Total Xylenes	mg/kg	58	9.9	--	<0.010	<0.010	NA
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	<0.0050	<0.0050	NA
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	<0.0050	<0.0050	NA
Total Petroleum Hydrocarbons							
TPH-GRO	mg/kg	500	--	--	<0.50	<0.50	NA
TPH-DRO	mg/kg	500	--	--	<50	<50	NA
TPH-RRO	mg/kg	500	--	--	<50	<50	NA
Polycyclic Aromatics Hydrocarbons							
1-Methyl-naphthalene	mg/kg	18	0.006	--	<0.00500	<0.00500	NA
2-Methyl-naphthalene	mg/kg	24	0.019	--	<0.00500	<0.00500	NA
Acenaphthene	mg/kg	360	0.55	--	<0.00500	<0.00500	NA
Anthracene	mg/kg	1800	5.8	--	<0.00500	<0.00500	NA
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	<0.00500	<0.00500	NA
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	<0.00500	<0.00500	NA
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	<0.00500	<0.00500	NA
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	<0.00500	<0.00500	NA
Chrysene	mg/kg	110	9	--	<0.00500	0.0220	NA
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	<0.00500	<0.00500	NA
Fluoranthene	mg/kg	240	8.9	--	<0.00500	<0.00500	NA
Fluorene	mg/kg	240	0.54	--	<0.00500	0.0196	NA
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	<0.00500	<0.00500	NA
Naphthalene	mg/kg	2	0.0038	--	<0.0038	<0.0038	NA
Pyrene	mg/kg	180	1.3	--	<0.00500	<0.00500	NA
Soil Suitability (Inorganics)							
Boron	mg/L	2	--	--	0.708	0.424	1.21
pH	standard unit	6-8.3	--	--	7.96	7.69	7.36
Sodium Adsorption Ratio (SAR)	--	<6	--	--	0.170	0.241	0.937
Specific Conductance (EC)	mmhos/cm	<4	--	--	0.274	0.385	0.646
Metals							
Arsenic	mg/kg	0.68***	0.29***	4.38***	3.41***	1.98***	3.57***
Barium	mg/kg	15000	82	--	257*	179*	269*
Cadmium	mg/kg	71	0.38	--	0.278	0.179	0.260
Copper	mg/kg	3100	46	--	8.28	6.32	8.01
Lead	mg/kg	400	14	--	7.32	6.08	6.87
Nickel	mg/kg	1500	26	--	7.20	5.36	6.92
Selenium	mg/kg	390	0.26	--	0.937*	0.704*	0.732*
Silver	mg/kg	390	0.8	--	0.0346	0.0280	0.0358
Zinc	mg/kg	23000	370	--	34.2	25.6	31.9
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	<0.30**	<0.30**	<0.30**
COGCC = Colorado Oil and Gas Conservation Commission mg/kg = milligrams per kilogram mmhos/cm = millimhos per centimeter PID = Photoionization Detector ppm-v = parts per million by volume mg/L = milligrams per liter SAR = Sodium Adsorption Ratio Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit. Values presented in BOLD exceed COGCC Table 915-1 Regulatory Limits. Values presented with asterisk (*) exceed COGCC Table 915-1 GSSLs. **Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg. ***Local clean-up level (4.38 mg/kg) is 1.25*Background average (3.50 mg/kg)							

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
COX PC GK 26-99HZ
VALVE RELEASE
40.888245 / -104.165144
SE1/4 SE1/4 SEC.26 T11N R61W 6PM
WELD COUNTY, COLORADO
LOCATION ID 418179
REMEDATION # 26411

Sample Location (Latitude / Longitude)				Background-03 @ 2.5'	Background-04 @ 2.5'	CS-SS-01 @ 2.5'	CS-SS-02 @ 2.5'
Sample Date				12/30/2022	12/30/2022	2/7/2023	2/7/2023
Sample Depth				2.5'	2.5'	2.5'	2.5'
PID Reading (ppm-v)				0.2	0.8	3.2	0.9
Regulatory Limits							
Chemical of Concern	Units	COGCC Table 915-1 RSSLs	COGCC Table 915-1 GSSLs	Local Clean-Up Level			
VOCs							
Benzene	mg/kg	1.2	0.0026	--	NA	NA	<0.0020
Toluene	mg/kg	490	0.69	--	NA	NA	<0.0050
Ethylbenzene	mg/kg	5.8	0.78	--	NA	NA	<0.0050
Total Xylenes	mg/kg	58	9.9	--	NA	NA	<0.010
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	NA	NA	<0.0050
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	NA	NA	<0.0050
Total Petroleum Hydrocarbons							
TPH-GRO	mg/kg	500	--	--	NA	NA	0.11
TPH-DRO	mg/kg	500	--	--	NA	NA	11
TPH-RRO	mg/kg	500	--	--	NA	NA	5.5
Polycyclic Aromatics Hydrocarbons							
1-Methyl-naphthalene	mg/kg	18	0.006	--	NA	NA	<0.00500
2-Methyl-naphthalene	mg/kg	24	0.019	--	NA	NA	<0.00500
Acenaphthene	mg/kg	360	0.55	--	NA	NA	<0.00500
Anthracene	mg/kg	1800	5.8	--	NA	NA	<0.00500
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	NA	NA	<0.00500
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	NA	NA	<0.00500
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	NA	NA	<0.00500
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	NA	NA	<0.00500
Chrysene	mg/kg	110	9	--	NA	NA	<0.00500
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	NA	NA	<0.00500
Fluoranthene	mg/kg	240	8.9	--	NA	NA	<0.00500
Fluorene	mg/kg	240	0.54	--	NA	NA	<0.00500
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	NA	NA	<0.00500
Naphthalene	mg/kg	2	0.0038	--	NA	NA	<0.0038
Pyrene	mg/kg	180	1.3	--	NA	NA	<0.00500
Soil Suitability (Inorganics)							
Boron	mg/L	2	--	--	0.380	0.643	3.25
pH	standard unit	6-8.3	--	--	8.34	8.20	8.84
Sodium Adsorption Ratio (SAR)	--	<6	--	--	0.311	0.468	5.84
Specific Conductance (EC)	mmhos/cm	<4	--	--	0.230	0.335	2.08
Metals							
Arsenic	mg/kg	0.68***	0.29***	4.38***	3.22***	4.11***	NA
Barium	mg/kg	15000	82	--	198*	303*	NA
Cadmium	mg/kg	71	0.38	--	0.243	0.246	NA
Copper	mg/kg	3100	46	--	7.20	7.70	NA
Lead	mg/kg	400	14	--	7.43	6.74	NA
Nickel	mg/kg	1500	26	--	6.82	7.12	NA
Selenium	mg/kg	390	0.26	--	0.829*	0.839*	NA
Silver	mg/kg	390	0.8	--	0.0389	0.0341	NA
Zinc	mg/kg	23000	370	--	31.8	33.1	NA
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	<0.30**	<0.30**	NA
COGCC = Colorado Oil and Gas Conservation Commission mg/kg = milligrams per kilogram mmhos/cm = millimhos per centimeter PID = Photoionization Detector ppm-v = parts per million by volume mg/L = milligrams per liter SAR = Sodium Adsorption Ratio Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit. Values presented in BOLD exceed COGCC Table 915-1 Regulatory Limits. Values presented with asterisk (*) exceed COGCC Table 915-1 GSSLs. **Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg. ***Local clean-up level (4.38 mg/kg) is 1.25*Background average (3.50 mg/kg)							

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
COX PC GK 26-99HZ
VALVE RELEASE
40.888245 / -104.165144
SE1/4 SE1/4 SEC.26 T11N R61W 6PM
WELD COUNTY, COLORADO
LOCATION ID 418179
REMEDATION # 26411

Sample Location				CS-FS-01 @ 3'	CS-SS-03 @ 2.5'	CS-FS-02 @ 3'
(Latitude / Longitude)				(40.888236 / -104.165152)	(40.888257 / -104.165146)	(40.888249 / -104.165148)
Sample Date				2/7/2023	2/21/2023	2/21/2023
Sample Depth				3'	2.5'	3'
PID Reading (ppm-v)				1.7	1.2	1.5
Regulatory Limits						
Chemical of Concern	Units	COGCC Table 915-1 RSSLs	COGCC Table 915-1 GSSLs			
VOCs						
Benzene	mg/kg	1.2	0.0026	<0.0020	<0.0020	<0.0020
Toluene	mg/kg	490	0.69	<0.0050	<0.0050	<0.0050
Ethylbenzene	mg/kg	5.8	0.78	<0.0050	<0.0050	<0.0050
Total Xylenes	mg/kg	58	9.9	<0.010	<0.010	<0.010
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	<0.0050	<0.0050	<0.0050
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	<0.0050	<0.0050	<0.0050
Total Petroleum Hydrocarbons						
TPH-GRO	mg/kg	500	--	0.12	0.0093	0.0098
TPH-DRO	mg/kg	500	--	16	19	12
TPH-RRO	mg/kg	500	--	<50	<50	4.6
Polycyclic Aromatics Hydrocarbons						
1-Methyl-naphthalene	mg/kg	18	0.006	<0.00500	<0.00500	<0.00500
2-Methyl-naphthalene	mg/kg	24	0.019	<0.00500	<0.00500	<0.00500
Acenaphthene	mg/kg	360	0.55	<0.00500	<0.00500	<0.00500
Anthracene	mg/kg	1800	5.8	<0.00500	0.00314	<0.00500
Benzo(a)-anthracene	mg/kg	1.1	0.011	<0.00500	<0.00500	<0.00500
Benzo(a)-pyrene	mg/kg	0.11	0.24	<0.00500	<0.00500	<0.00500
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	<0.00500	<0.00500	<0.00500
Benzo(k)-fluoranthene	mg/kg	11	2.9	<0.00500	<0.00500	<0.00500
Chrysene	mg/kg	110	9	<0.00500	<0.00500	<0.00500
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	<0.00500	<0.00500	<0.00500
Fluoranthene	mg/kg	240	8.9	<0.00500	<0.00500	<0.00500
Fluorene	mg/kg	240	0.54	<0.00500	<0.00500	<0.00500
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	<0.00500	<0.00500	<0.00500
Naphthalene	mg/kg	2	0.0038	<0.0038	<0.0038	<0.0038
Pyrene	mg/kg	180	1.3	<0.00500	<0.00500	<0.00500
Soil Suitability (Inorganics)						
Boron	mg/L	2	--	0.170	0.451	0.445
pH	standard unit	6-8.3	--	7.68	8.83	7.90
Sodium Adsorption Ratio (SAR)	--	<6	--	4.60	1.53	17.2
Specific Conductance (EC)	mmhos/cm	<4	--	1.37	0.629	3.60
COGCC = Colorado Oil and Gas Conservation Commission		VOCs - Volatile Organic Compounds		NA - Not Analyzed		
mg/kg = milligrams per kilogram						
mmhos/cm = millimhos per centimeter		RSSLs = Residential Soil Screening Levels				
PID = Photoionization Detector		GSSLs = Protection of Groundwater Soil Screening Levels				
ppm-v = parts per million by volume		TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics				
mg/L = milligrams per liter		TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics				
SAR = Sodium Adsorption Ratio		TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics				
Notes:						
Values presented in BOLD exceed COGCC Table 915-1 Regulatory Limits. Values presented with asterisk (*) exceed COGCC Table 915-1 GSSLs.						



ATTACHMENT A

Photo Log

Cox PC GK 26-99HZ

Location ID 418179

Remediation # 26411

Release Assessment

December 2022 – February 2023



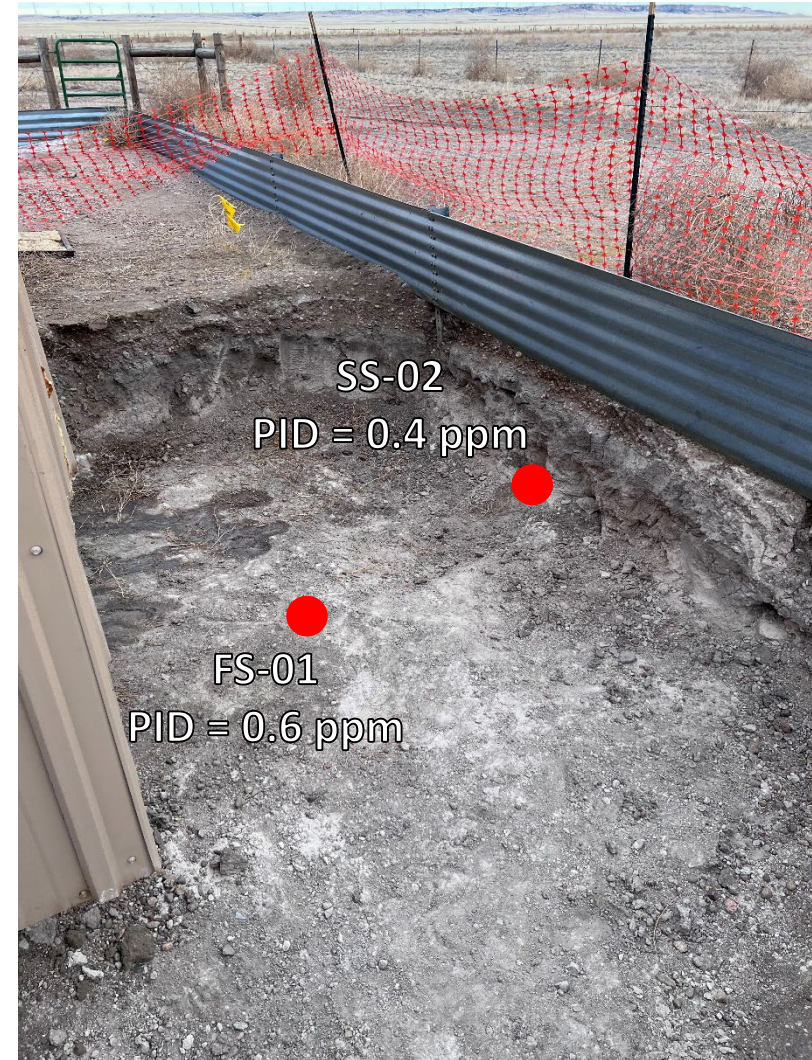
Initial Assessment – 12/30/22



SS-01
PID = 1.1 ppm

Looking north

No petroleum hydrocarbon staining or odor observed



SS-02
PID = 0.4 ppm

FS-01
PID = 0.6 ppm

Looking southeast

No petroleum hydrocarbon staining or odor observed

Initial Assessment – 12/30/22



Looking west

No petroleum hydrocarbon staining or odor observed



Looking north

No petroleum hydrocarbon staining or odor observed

Initial Assessment – 12/30/22



Looking south

No petroleum hydrocarbon staining or odor observed



Looking west

No petroleum hydrocarbon staining or odor observed

Initial Assessment – 12/30/22



Background-03
PID = 0.2 ppm

Looking north

No petroleum hydrocarbon staining or odor observed



Background-04
PID = 0.8 ppm

Looking east

No petroleum hydrocarbon staining or odor observed

Confirmation Sampling – 02/07/23



Looking north

No petroleum hydrocarbon staining or odor observed



Looking south

No petroleum hydrocarbon staining or odor observed

Confirmation Sampling – 02/07/23



Looking west

No petroleum hydrocarbon staining or odor observed

Confirmation Sampling – 02/21/23



Looking west

No petroleum hydrocarbon staining or odor observed



Looking north

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Reports

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

January 05, 2023

Martin Eckert III

Civitas Resources

650 Southgate Drive

Windsor, CO 80550

RE: Cox PC GK26-99HZ

Work Order # 2212576

Enclosed are the results of analyses for samples received by Summit Scientific on 12/30/22 18:02. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Sheely". The signature is fluid and cursive, with the first name "Scott" and last name "Sheely" clearly distinguishable.

Scott Sheely For Paul Shrewsbury

President



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01@2'	2212576-01	Soil	12/30/22 13:05	12/30/22 18:02
SS-02@2'	2212576-02	Soil	12/30/22 13:10	12/30/22 18:02
SS-03@2'	2212576-03	Soil	12/30/22 13:15	12/30/22 18:02
SS-04@1'	2212576-04	Soil	12/30/22 13:20	12/30/22 18:02
FS-01@2.5'	2212576-05	Soil	12/30/22 13:25	12/30/22 18:02
FS-02@1.5'	2212576-06	Soil	12/30/22 13:30	12/30/22 18:02

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.

Summit Scientific

2212576

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Client: Eagle Environmental Consulting / Civitas

Project Manager: Martin Echert III / invoice Cory

Address: 8000 W 44th Ave

E-Mail: mec3@eagle-enviro.com

City/State/Zip: Wheat Ridge, CO 80033

Phone: 303-433-0479

Project Name: Cox PC GK 26-99HZ

Sampler Name: IM

Project Number:

Page 1 of 1

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested										Special Instructions
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	As, BTEX, TMBs -8760D	PAHs-8760D -8015D	PAHs-8760D -8015D	EC-9050A	SAR-20B	PH-9045D	Table 915 Metals -6020B/7796A				
1	SS-01 @ 2'	12/30/22	1305	2			X			X				X	X	X	X	X			EL/SAR/pH =		
2	SS-02 @ 2'		1310																		Saturated push prep		
3	SS-03 @ 2'		1315																				
4	SS-04 @ 1'		1320																				
5	FS-01 @ 2.5'		1325																				
6	FS-02 @ 1.5'		1330																				
7																							
8																							
9																							
10																							

Relinquished by: <u>John Mahan</u>	Date/Time: <u>12/30/22 1801</u>	Received by: <u>Sheree Buehler</u>	Date/Time: <u>12/30/22 18:02</u>	Turn Around Time (Check)	Notes:
Relinquished by: <u> </u>	Date/Time: <u> </u>	Received by: <u> </u>	Date/Time: <u> </u>	Same Day <u> </u> 72 hours <u> </u>	Standard <u>✓</u>
				24 hours <u> </u>	
				48 hours <u> </u>	
Temperature Upon Receipt: <u>0</u>	Corrected Temperature <u> </u>	HNO ₃ lot # <u> </u>	IR gun #: <u> </u>	Sample Integrity: <u>Yes</u> No	

S₂

2212576

S2 Work Order#

Sample Receipt Checklist

Civitas

Client: Eagle Environmental Consulting Client Project ID: Cox PC GK 24-99H2Shipped 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)

0

Thermometer #

2

	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"/>	ice
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 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 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.				

83

Custodian Printed Name

12/30/22 18:02

Date/Time



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

SS-01@2'
2212576-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/30/22 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGA0007	01/03/23	01/03/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **12/30/22 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		103 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/30/22 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BGA0008	01/03/23	01/03/23	EPA 8015M	
C28-C36 (ORO)	ND	50	4.3	"	"	"	"	"	"	

Date Sampled: **12/30/22 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		124 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

SS-01@2'
2212576-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/30/22 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGA0006	01/03/23	01/04/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **12/30/22 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		59.4 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		69.9 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/30/22 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	5.65	0.0100	0.00690	mg/L	1	BGA0013	01/03/23	01/04/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/30/22 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

SS-01@2'
2212576-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.99	0.237	0.200	mg/kg dry	1	BGA0019	01/03/23	01/04/23	EPA 6020B
Barium	160	0.474	0.375	"	"	"	"	"	"
Cadmium	0.144	0.237	0.00853	"	"	"	"	"	"
Copper	5.03	0.474	0.0248	"	"	"	"	"	"
Lead	4.69	0.237	0.0651	"	"	"	"	"	"
Nickel	4.19	0.474	0.0723	"	"	"	"	"	"
Selenium	0.518	0.308	0.207	"	"	"	"	"	"
Silver	0.0229	0.0237	0.00316	"	"	"	"	"	"
Zinc	20.5	0.474	0.315	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/30/22 13:05

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.0040	mg/kg dry	1	BFL0775	12/31/22	01/01/23	EPA 7196A	

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

Date Sampled: 12/30/22 13:05

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	960	0.0593		mg/L dry	1	BGA0018	01/03/23	01/04/23	EPA 6020B	
Magnesium	31.6	0.0593		"	"	"	"	"	"	
Sodium	584	0.0593		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/30/22 13:05

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.05	0.00100		units	1	BGA0079	01/05/23	01/05/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

SS-01@2'
2212576-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/30/22 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	84.4			%	1	BGA0014	01/03/23	01/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/30/22 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	1.62	0.0100	0.00100	mmhos/cm	1	BGA0039	01/04/23	01/04/23	EPA 120.1	

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

Date Sampled: **12/30/22 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	9.22			pH Units	1	BGA0040	01/04/23	01/04/23	EPA 9045D	

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

SS-02@2'
2212576-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/30/22 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGA0007	01/03/23	01/03/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **12/30/22 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		110 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/30/22 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	150	50	4.3	mg/kg	1	BGA0008	01/03/23	01/03/23	EPA 8015M	
C28-C36 (ORO)	ND	50	4.3	"	"	"	"	"	"	

Date Sampled: **12/30/22 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		125 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

SS-02@2'
2212576-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/30/22 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGA0006	01/03/23	01/04/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	0.00712	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	0.00941	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	0.00788	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **12/30/22 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		49.7 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		56.7 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/30/22 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.969	0.0100	0.00690	mg/L	1	BGA0013	01/03/23	01/04/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/30/22 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

SS-02@2'
2212576-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.22	0.230	0.194	mg/kg dry	1	BGA0019	01/03/23	01/04/23	EPA 6020B
Barium	258	0.461	0.364	"	"	"	"	"	"
Cadmium	0.260	0.230	0.00829	"	"	"	"	"	"
Copper	8.13	0.461	0.0241	"	"	"	"	"	"
Lead	8.21	0.230	0.0633	"	"	"	"	"	"
Nickel	7.36	0.461	0.0702	"	"	"	"	"	"
Selenium	0.971	0.299	0.202	"	"	"	"	"	"
Silver	0.0351	0.0230	0.00307	"	"	"	"	"	"
Zinc	40.0	0.461	0.306	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/30/22 13:10

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.0040	mg/kg dry	1	BFL0775	12/31/22	01/01/23	EPA 7196A	

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

Date Sampled: 12/30/22 13:10

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	73.4	0.0576		mg/L dry	1	BGA0018	01/03/23	01/04/23	EPA 6020B	
Magnesium	10.1	0.0576		"	"	"	"	"	"	
Sodium	13.0	0.0576		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/30/22 13:10

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.377	0.00100		units	1	BGA0079	01/05/23	01/05/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

SS-02@2'
2212576-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/30/22 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	86.8			%	1	BGA0014	01/03/23	01/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/30/22 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.473	0.0100	0.00100	mmhos/cm	1	BGA0039	01/04/23	01/04/23	EPA 120.1	

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

Date Sampled: **12/30/22 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.61			pH Units	1	BGA0040	01/04/23	01/04/23	EPA 9045D	

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

SS-03@2'
2212576-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/30/22 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGA0007	01/03/23	01/03/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **12/30/22 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		108 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		103 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/30/22 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BGA0008	01/03/23	01/03/23	EPA 8015M	
C28-C36 (ORO)	ND	50	4.3	"	"	"	"	"	"	

Date Sampled: **12/30/22 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		122 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

SS-03@2'
2212576-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/30/22 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGA0006	01/03/23	01/04/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **12/30/22 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		48.0 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		54.3 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/30/22 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	1.18	0.0100	0.00690	mg/L	1	BGA0013	01/03/23	01/04/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/30/22 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

SS-03@2'
2212576-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.45	0.239	0.201	mg/kg dry	1	BGA0019	01/03/23	01/04/23	EPA 6020B
Barium	218	0.478	0.378	"	"	"	"	"	"
Cadmium	0.266	0.239	0.00861	"	"	"	"	"	"
Copper	7.46	0.478	0.0250	"	"	"	"	"	"
Lead	8.03	0.239	0.0657	"	"	"	"	"	"
Nickel	6.28	0.478	0.0729	"	"	"	"	"	"
Selenium	0.768	0.311	0.209	"	"	"	"	"	"
Silver	0.0393	0.0239	0.00319	"	"	"	"	"	"
Zinc	28.9	0.478	0.318	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/30/22 13:15

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.0040	mg/kg dry	1	BFL0775	12/31/22	01/01/23	EPA 7196A	

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

Date Sampled: 12/30/22 13:15

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	52.6	0.0598		mg/L dry	1	BGA0018	01/03/23	01/04/23	EPA 6020B	
Magnesium	8.44	0.0598		"	"	"	"	"	"	
Sodium	7.20	0.0598		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/30/22 13:15

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.243	0.00100		units	1	BGA0079	01/05/23	01/05/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

SS-03@2'
2212576-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/30/22 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	83.6			%	1	BGA0014	01/03/23	01/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/30/22 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.404	0.0100	0.00100	mmhos/cm	1	BGA0039	01/04/23	01/04/23	EPA 120.1	

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

Date Sampled: **12/30/22 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.73			pH Units	1	BGA0040	01/04/23	01/04/23	EPA 9045D	

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

SS-04@1'
2212576-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/30/22 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGA0007	01/03/23	01/03/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **12/30/22 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		112 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		106 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/30/22 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BGA0008	01/03/23	01/04/23	EPA 8015M	
C28-C36 (ORO)	ND	50	4.3	"	"	"	"	"	"	

Date Sampled: **12/30/22 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		127 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

SS-04@1'
2212576-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/30/22 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGA0006	01/03/23	01/04/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **12/30/22 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		65.0 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		73.6 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/30/22 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.265	0.0100	0.00690	mg/L	1	BGA0013	01/03/23	01/04/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/30/22 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

SS-04@1'
2212576-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.50	0.225	0.189	mg/kg dry	1	BGA0019	01/03/23	01/04/23	EPA 6020B
Barium	86.7	0.449	0.355	"	"	"	"	"	"
Cadmium	0.103	0.225	0.00808	"	"	"	"	"	"
Copper	4.44	0.449	0.0235	"	"	"	"	"	"
Lead	3.60	0.225	0.0617	"	"	"	"	"	"
Nickel	3.38	0.449	0.0685	"	"	"	"	"	"
Selenium	0.502	0.292	0.196	"	"	"	"	"	"
Silver	0.0164	0.0225	0.00300	"	"	"	"	"	"
Zinc	16.3	0.449	0.299	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/30/22 13:20

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.0040	mg/kg dry	1	BFL0775	12/31/22	01/01/23	EPA 7196A	

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

Date Sampled: 12/30/22 13:20

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	302	0.0561		mg/L dry	1	BGA0018	01/03/23	01/04/23	EPA 6020B	
Magnesium	14.4	0.0561		"	"	"	"	"	"	
Sodium	1.66	0.0561		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/30/22 13:20

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0253	0.00100		units	1	BGA0079	01/05/23	01/05/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

SS-04@1'
2212576-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/30/22 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	89.1			%	1	BGA0014	01/03/23	01/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/30/22 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.151	0.0100	0.00100	mmhos/cm	1	BGA0039	01/04/23	01/04/23	EPA 120.1	

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

Date Sampled: **12/30/22 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.02			pH Units	1	BGA0040	01/04/23	01/04/23	EPA 9045D	

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

FS-01@2.5'
2212576-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/30/22 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGA0007	01/03/23	01/03/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **12/30/22 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		107 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		105 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/30/22 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BGA0008	01/03/23	01/04/23	EPA 8015M	
C28-C36 (ORO)	ND	50	4.3	"	"	"	"	"	"	

Date Sampled: **12/30/22 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		124 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

FS-01@2.5'
2212576-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/30/22 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGA0006	01/03/23	01/04/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **12/30/22 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		62.5 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		77.1 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/30/22 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.708	0.0100	0.00690	mg/L	1	BGA0013	01/03/23	01/04/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/30/22 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

FS-01@2.5'
2212576-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.41	0.254	0.214	mg/kg dry	1	BGA0019	01/03/23	01/04/23	EPA 6020B
Barium	257	0.508	0.402	"	"	"	"	"	"
Cadmium	0.278	0.254	0.00915	"	"	"	"	"	"
Copper	8.28	0.508	0.0266	"	"	"	"	"	"
Lead	7.32	0.254	0.0699	"	"	"	"	"	"
Nickel	7.20	0.508	0.0775	"	"	"	"	"	"
Selenium	0.937	0.331	0.222	"	"	"	"	"	"
Silver	0.0346	0.0254	0.00339	"	"	"	"	"	"
Zinc	34.2	0.508	0.338	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/30/22 13:25

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.0040	mg/kg dry	1	BFL0775	12/31/22	01/01/23	EPA 7196A	

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

Date Sampled: 12/30/22 13:25

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	619	0.0636		mg/L dry	1	BGA0018	01/03/23	01/04/23	EPA 6020B	
Magnesium	28.2	0.0636		"	"	"	"	"	"	
Sodium	15.9	0.0636		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/30/22 13:25

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.170	0.00100		units	1	BGA0079	01/05/23	01/05/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

FS-01@2.5'
2212576-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/30/22 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	78.7			%	1	BGA0014	01/03/23	01/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/30/22 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.274	0.0100	0.00100	mmhos/cm	1	BGA0039	01/04/23	01/04/23	EPA 120.1	

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

Date Sampled: **12/30/22 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.96			pH Units	1	BGA0040	01/04/23	01/04/23	EPA 9045D	

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

FS-02@1.5'
2212576-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/30/22 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGA0007	01/03/23	01/03/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **12/30/22 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		110 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		106 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/30/22 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BGA0008	01/03/23	01/04/23	EPA 8015M	
C28-C36 (ORO)	ND	50	4.3	"	"	"	"	"	"	

Date Sampled: **12/30/22 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		132 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

FS-02@1.5'
2212576-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/30/22 13:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGA0006	01/03/23	01/04/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	0.0220	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	0.0196	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **12/30/22 13:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		71.7 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		81.1 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/30/22 13:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.424	0.0100	0.00690	mg/L	1	BGA0013	01/03/23	01/04/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/30/22 13:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-----	-------	----------	-------	----------	----------	--------	-------

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

FS-02@1.5'
2212576-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.98	0.258	0.217	mg/kg dry	1	BGA0019	01/03/23	01/04/23	EPA 6020B
Barium	179	0.516	0.407	"	"	"	"	"	"
Cadmium	0.179	0.258	0.00928	"	"	"	"	"	"
Copper	6.32	0.516	0.0269	"	"	"	"	"	"
Lead	6.08	0.258	0.0709	"	"	"	"	"	"
Nickel	5.36	0.516	0.0786	"	"	"	"	"	"
Selenium	0.704	0.335	0.226	"	"	"	"	"	"
Silver	0.0280	0.0258	0.00344	"	"	"	"	"	"
Zinc	25.6	0.516	0.343	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/30/22 13:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.0040	mg/kg dry	1	BFL0775	12/31/22	01/01/23	EPA 7196A	

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

Date Sampled: 12/30/22 13:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	71.8	0.0645		mg/L dry	1	BGA0018	01/03/23	01/04/23	EPA 6020B	
Magnesium	12.7	0.0645		"	"	"	"	"	"	
Sodium	8.43	0.0645		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/30/22 13:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.241	0.00100		units	1	BGA0079	01/05/23	01/05/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

FS-02@1.5'
2212576-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/30/22 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	77.6			%	1	BGA0014	01/03/23	01/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/30/22 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.385	0.0100	0.00100	mmhos/cm	1	BGA0039	01/04/23	01/04/23	EPA 120.1	

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

Date Sampled: **12/30/22 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.69			pH Units	1	BGA0040	01/04/23	01/04/23	EPA 9045D	

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

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 BGA0007 - EPA 5030 Soil MS

Blank (BGA0007-BLK1)

Prepared & Analyzed: 01/03/23

Benzene	ND	0.0020	mg/kg
Toluene	ND	0.0050	"
Ethylbenzene	ND	0.0050	"
Xylenes (total)	ND	0.010	"
1,2,4-Trimethylbenzene	ND	0.0050	"
1,3,5-Trimethylbenzene	ND	0.0050	"
Naphthalene	ND	0.0038	"
Gasoline Range Hydrocarbons	ND	0.50	"

Surrogate: 1,2-Dichloroethane-d4	0.0418	"	0.0400	104	50-150
Surrogate: Toluene-d8	0.0413	"	0.0400	103	50-150
Surrogate: 4-Bromofluorobenzene	0.0441	"	0.0400	110	50-150

LCS (BGA0007-BS1)

Prepared & Analyzed: 01/03/23

Benzene	0.138	0.0020	mg/kg	0.125	110	70-130
Toluene	0.139	0.0050	"	0.125	112	70-130
Ethylbenzene	0.128	0.0050	"	0.125	102	70-130
m,p-Xylene	0.245	0.010	"	0.250	98.0	70-130
o-Xylene	0.119	0.0050	"	0.125	95.2	70-130
1,2,4-Trimethylbenzene	0.131	0.0050	"	0.125	104	70-130
1,3,5-Trimethylbenzene	0.130	0.0050	"	0.125	104	70-130
Naphthalene	0.105	0.0038	"	0.125	84.3	70-130

Surrogate: 1,2-Dichloroethane-d4	0.0435	"	0.0400	109	50-150
Surrogate: Toluene-d8	0.0421	"	0.0400	105	50-150
Surrogate: 4-Bromofluorobenzene	0.0423	"	0.0400	106	50-150

Matrix Spike (BGA0007-MS1)

Source: 2212560-01

Prepared & Analyzed: 01/03/23

Benzene	0.136	0.0020	mg/kg	0.125	ND	109	70-130
Toluene	0.137	0.0050	"	0.125	ND	110	70-130
Ethylbenzene	0.125	0.0050	"	0.125	ND	99.9	70-130
m,p-Xylene	0.241	0.010	"	0.250	ND	96.5	70-130
o-Xylene	0.117	0.0050	"	0.125	ND	94.0	70-130
1,2,4-Trimethylbenzene	0.128	0.0050	"	0.125	ND	102	70-130
1,3,5-Trimethylbenzene	0.128	0.0050	"	0.125	ND	102	70-130
Naphthalene	0.109	0.0038	"	0.125	ND	87.5	70-130

Surrogate: 1,2-Dichloroethane-d4	0.0431	"	0.0400	108	50-150
Surrogate: Toluene-d8	0.0426	"	0.0400	106	50-150
Surrogate: 4-Bromofluorobenzene	0.0420	"	0.0400	105	50-150

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

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 BGA0007 - EPA 5030 Soil MS

Matrix Spike Dup (BGA0007-MSD1)	Source: 2212560-01			Prepared & Analyzed: 01/03/23						
Benzene	0.137	0.0020	mg/kg	0.125	ND	110	70-130	1.14	30	
Toluene	0.142	0.0050	"	0.125	ND	113	70-130	2.99	30	
Ethylbenzene	0.129	0.0050	"	0.125	ND	103	70-130	3.31	30	
m,p-Xylene	0.249	0.010	"	0.250	ND	99.7	70-130	3.19	30	
o-Xylene	0.121	0.0050	"	0.125	ND	96.8	70-130	2.92	30	
1,2,4-Trimethylbenzene	0.133	0.0050	"	0.125	ND	106	70-130	3.80	30	
1,3,5-Trimethylbenzene	0.132	0.0050	"	0.125	ND	106	70-130	3.54	30	
Naphthalene	0.118	0.0038	"	0.125	ND	94.6	70-130	7.83	30	
Surrogate: 1,2-Dichloroethane-d4	0.0438		"	0.0400		110	50-150			
Surrogate: Toluene-d8	0.0429		"	0.0400		107	50-150			
Surrogate: 4-Bromofluorobenzene	0.0423		"	0.0400		106	50-150			

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:

01/05/23 14:03

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 BGA0008 - EPA 3550A

Blank (BGA0008-BLK1)

Prepared & Analyzed: 01/03/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	13.5		"	12.5		108	30-150			

LCS (BGA0008-BS1)

Prepared & Analyzed: 01/03/23

C10-C28 (DRO)	432	50	mg/kg	500		86.4	70-130			
Surrogate: o-Terphenyl	11.2		"	12.5		89.7	30-150			

Matrix Spike (BGA0008-MS1)

Source: 2212560-01

Prepared & Analyzed: 01/03/23

C10-C28 (DRO)	398	50	mg/kg	500	13.0	76.9	70-130			
Surrogate: o-Terphenyl	6.14		"	12.5		49.1	30-150			

Matrix Spike Dup (BGA0008-MSD1)

Source: 2212560-01

Prepared & Analyzed: 01/03/23

C10-C28 (DRO)	409	50	mg/kg	500	13.0	79.3	70-130	2.91	20	
Surrogate: o-Terphenyl	5.89		"	12.5		47.1	30-150			

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:

01/05/23 14:03

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGA0006 - EPA 5030 Soil MS

Blank (BGA0006-BLK1)

Prepared & Analyzed: 01/03/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0265		"	0.0333		79.5	40-150			
Surrogate: Fluoranthene-d10	0.0328		"	0.0333		98.3	40-150			

LCS (BGA0006-BS1)

Prepared & Analyzed: 01/03/23

Acenaphthene	0.0307	0.00500	mg/kg	0.0333		92.0	31-137			
Anthracene	0.0299	0.00500	"	0.0333		89.6	30-120			
Benzo (a) anthracene	0.0297	0.00500	"	0.0333		89.2	30-120			
Benzo (a) pyrene	0.0294	0.00500	"	0.0333		88.3	30-120			
Benzo (b) fluoranthene	0.0296	0.00500	"	0.0333		88.8	30-120			
Benzo (k) fluoranthene	0.0301	0.00500	"	0.0333		90.3	30-120			
Chrysene	0.0316	0.00500	"	0.0333		94.7	30-120			
Dibenz (a,h) anthracene	0.0274	0.00500	"	0.0333		82.2	30-120			
Fluoranthene	0.0254	0.00500	"	0.0333		76.2	30-120			
Fluorene	0.0302	0.00500	"	0.0333		90.6	30-120			
Indeno (1,2,3-cd) pyrene	0.0307	0.00500	"	0.0333		92.0	30-120			
Pyrene	0.0209	0.00500	"	0.0333		62.8	35-142			
1-Methylnaphthalene	0.0292	0.00500	"	0.0333		87.6	35-142			
2-Methylnaphthalene	0.0273	0.00500	"	0.0333		82.0	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0292		"	0.0333		87.6	40-150			
Surrogate: Fluoranthene-d10	0.0311		"	0.0333		93.2	40-150			

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: Cox PC GK26-99HZ

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGA0006 - EPA 5030 Soil MS

Matrix Spike (BGA0006-MS1)

Source: 2212550-01

Prepared & Analyzed: 01/03/23

Acenaphthene	0.0215	0.00500	mg/kg	0.0333	ND	64.5	31-137		
Anthracene	0.0211	0.00500	"	0.0333	ND	63.2	30-120		
Benzo (a) anthracene	0.0218	0.00500	"	0.0333	ND	65.5	30-120		
Benzo (a) pyrene	0.0211	0.00500	"	0.0333	ND	63.4	30-120		
Benzo (b) fluoranthene	0.0215	0.00500	"	0.0333	ND	64.5	30-120		
Benzo (k) fluoranthene	0.0220	0.00500	"	0.0333	ND	66.1	30-120		
Chrysene	0.0225	0.00500	"	0.0333	ND	67.5	30-120		
Dibenz (a,h) anthracene	0.0204	0.00500	"	0.0333	ND	61.3	30-120		
Fluoranthene	0.0171	0.00500	"	0.0333	ND	51.3	30-120		
Fluorene	0.0214	0.00500	"	0.0333	ND	64.3	30-120		
Indeno (1,2,3-cd) pyrene	0.0219	0.00500	"	0.0333	ND	65.6	30-120		
Pyrene	0.0145	0.00500	"	0.0333	ND	43.4	35-142		
1-Methylnaphthalene	0.0241	0.00500	"	0.0333	ND	72.3	15-130		
2-Methylnaphthalene	0.0235	0.00500	"	0.0333	ND	70.6	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0230		"	0.0333		69.0	40-150		
Surrogate: Fluoranthene-d10	0.0221		"	0.0333		66.2	40-150		

Matrix Spike Dup (BGA0006-MSD1)

Source: 2212550-01

Prepared & Analyzed: 01/03/23

Acenaphthene	0.0279	0.00500	mg/kg	0.0333	ND	83.7	31-137	25.9	30
Anthracene	0.0274	0.00500	"	0.0333	ND	82.1	30-120	26.0	30
Benzo (a) anthracene	0.0284	0.00500	"	0.0333	ND	85.3	30-120	26.2	30
Benzo (a) pyrene	0.0274	0.00500	"	0.0333	ND	82.1	30-120	25.7	30
Benzo (b) fluoranthene	0.0276	0.00500	"	0.0333	ND	82.7	30-120	24.8	30
Benzo (k) fluoranthene	0.0282	0.00500	"	0.0333	ND	84.6	30-120	24.5	30
Chrysene	0.0288	0.00500	"	0.0333	ND	86.3	30-120	24.4	30
Dibenz (a,h) anthracene	0.0265	0.00500	"	0.0333	ND	79.6	30-120	26.0	30
Fluoranthene	0.0229	0.00500	"	0.0333	ND	68.8	30-120	29.1	30
Fluorene	0.0274	0.00500	"	0.0333	ND	82.3	30-120	24.5	30
Indeno (1,2,3-cd) pyrene	0.0283	0.00500	"	0.0333	ND	84.9	30-120	25.6	30
Pyrene	0.0164	0.00500	"	0.0333	ND	49.3	35-142	12.8	30
1-Methylnaphthalene	0.0302	0.00500	"	0.0333	ND	90.6	15-130	22.4	50
2-Methylnaphthalene	0.0336	0.00500	"	0.0333	ND	101	15-130	35.1	50
Surrogate: 2-Methylnaphthalene-d10	0.0286		"	0.0333		85.9	40-150		
Surrogate: Fluoranthene-d10	0.0279		"	0.0333		83.8	40-150		

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

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

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

Batch BGA0013 - EPA 3050B

Blank (BGA0013-BLK1)

Prepared: 01/03/23 Analyzed: 01/04/23

Boron ND 0.0100 mg/L

LCS (BGA0013-BS1)

Prepared: 01/03/23 Analyzed: 01/04/23

Boron 5.92 0.0100 mg/L 5.00 118 80-120

Duplicate (BGA0013-DUP1)

Source: 2212572-01

Prepared: 01/03/23 Analyzed: 01/04/23

Boron 0.181 0.0100 mg/L 0.154 16.1 20

Matrix Spike (BGA0013-MS1)

Source: 2212572-01

Prepared: 01/03/23 Analyzed: 01/04/23

Boron 5.09 0.0100 mg/L 5.00 0.154 98.7 75-125

Matrix Spike Dup (BGA0013-MSD1)

Source: 2212572-01

Prepared: 01/03/23 Analyzed: 01/04/23

Boron 5.09 0.0100 mg/L 5.00 0.154 98.7 75-125 0.0155 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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:

01/05/23 14:03

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BGA0019 - EPA 3050B

Blank (BGA0019-BLK1)

Prepared: 01/03/23 Analyzed: 01/04/23

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	0.0414	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BGA0019-BS1)

Prepared: 01/03/23 Analyzed: 01/04/23

Arsenic	44.2	0.200	mg/kg wet	40.0	111	80-120
Barium	43.3	0.400	"	40.0	108	80-120
Cadmium	2.12	0.200	"	2.00	106	80-120
Copper	41.7	0.400	"	40.0	104	80-120
Lead	20.9	0.200	"	20.0	104	80-120
Nickel	41.8	0.400	"	40.0	105	80-120
Selenium	4.29	0.260	"	4.00	107	80-120
Silver	2.09	0.0200	"	2.00	104	80-120
Zinc	44.8	0.400	"	40.0	112	80-120

Duplicate (BGA0019-DUP1)

Source: 2212575-01

Prepared: 01/03/23 Analyzed: 01/04/23

Arsenic	3.57	0.228	mg/kg dry	3.57	0.0148	20
Barium	271	0.457	"	269	0.723	20
Cadmium	0.259	0.228	"	0.260	0.0426	20
Copper	8.11	0.457	"	8.01	1.24	20
Lead	6.90	0.228	"	6.87	0.448	20
Nickel	7.01	0.457	"	6.92	1.39	20
Selenium	0.839	0.297	"	0.732	13.6	20
Silver	0.0392	0.0228	"	0.0358	8.99	20
Zinc	32.5	0.457	"	31.9	1.64	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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BGA0019 - EPA 3050B

Matrix Spike (BGA0019-MS1)		Source: 2212575-01			Prepared: 01/03/23 Analyzed: 01/04/23					
Arsenic	44.4	0.228	mg/kg dry	45.7	3.57	89.5	75-125			
Barium	280	0.457	"	45.7	269	22.7	75-125			QM-05
Cadmium	2.07	0.228	"	2.28	0.260	79.3	75-125			
Copper	43.3	0.457	"	45.7	8.01	77.2	75-125			
Lead	22.8	0.228	"	22.8	6.87	69.9	75-125			QM-05
Nickel	44.1	0.457	"	45.7	6.92	81.3	75-125			
Selenium	4.47	0.297	"	4.57	0.732	81.9	75-125			
Silver	1.83	0.0228	"	2.28	0.0358	78.6	75-125			
Zinc	68.8	0.457	"	45.7	31.9	80.7	75-125			

Matrix Spike Dup (BGA0019-MSD1)		Source: 2212575-01			Prepared: 01/03/23 Analyzed: 01/04/23					
Arsenic	55.9	0.228	mg/kg dry	45.7	3.57	115	75-125	22.9	25	
Barium	361	0.457	"	45.7	269	201	75-125	25.4	25	QM-05
Cadmium	2.60	0.228	"	2.28	0.260	103	75-125	22.8	25	
Copper	54.8	0.457	"	45.7	8.01	103	75-125	23.6	25	
Lead	27.9	0.228	"	22.8	6.87	92.1	75-125	20.0	25	
Nickel	56.0	0.457	"	45.7	6.92	107	75-125	23.9	25	
Selenium	5.38	0.297	"	4.57	0.732	102	75-125	18.6	25	
Silver	2.32	0.0228	"	2.28	0.0358	100	75-125	23.5	25	
Zinc	79.8	0.457	"	45.7	31.9	105	75-125	14.9	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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:

01/05/23 14:03

Hexavalent Chromium by EPA Method 7196 - Quality Control

Summit Scientific

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

Batch BFL0775 - 3060A Mod

Blank (BFL0775-BLK1)

Prepared: 12/31/22 Analyzed: 01/01/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFL0775-BS1)

Prepared: 12/31/22 Analyzed: 01/01/23

Chromium, Hexavalent 24.4 0.30 mg/kg wet 25.0 97.4 80-120

Duplicate (BFL0775-DUP1)

Source: 2212567-01

Prepared: 12/31/22 Analyzed: 01/01/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFL0775-MS1)

Source: 2212567-01

Prepared: 12/31/22 Analyzed: 01/01/23

Chromium, Hexavalent 29.1 0.30 mg/kg dry 29.4 ND 99.0 75-125

Matrix Spike Dup (BFL0775-MSD1)

Source: 2212567-01

Prepared: 12/31/22 Analyzed: 01/01/23

Chromium, Hexavalent 29.3 0.30 mg/kg dry 29.4 ND 99.6 75-125 0.604 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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

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

Summit Scientific

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

Batch BGA0018 - General Preparation

Blank (BGA0018-BLK1)

Prepared: 01/03/23 Analyzed: 01/04/23

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

LCS (BGA0018-BS1)

Prepared: 01/03/23 Analyzed: 01/04/23

Calcium	4.73	0.0500	mg/L wet	5.00	94.6	70-130
Magnesium	4.69	0.0500	"	5.00	93.8	70-130
Sodium	4.50	0.0500	"	5.00	90.0	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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

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 BGA0014 - General Preparation

Duplicate (BGA0014-DUP1)

Source: 2212572-01

Prepared & Analyzed: 01/03/23

% Solids	95.3	%	94.7	0.709	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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:

01/05/23 14:03

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

Summit Scientific

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

Batch BGA0039 - General Preparation

Blank (BGA0039-BLK1)

Prepared & Analyzed: 01/04/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGA0039-BS1)

Prepared & Analyzed: 01/04/23

Specific Conductance (EC) 0.149 0.0100 mmhos/cm 0.150 99.4 95-105

Duplicate (BGA0039-DUP1)

Source: 2212572-01

Prepared & Analyzed: 01/04/23

Specific Conductance (EC) 0.231 0.0100 mmhos/cm 0.234 1.16 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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:

01/05/23 14:03

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

Summit Scientific

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

Batch BGA0040 - General Preparation

LCS (BGA0040-BS1)

Prepared & Analyzed: 01/04/23

pH	9.19	pH Units	9.18	100	95-105
----	------	----------	------	-----	--------

Duplicate (BGA0040-DUP1)

Source: 2212572-01

Prepared & Analyzed: 01/04/23

pH	7.02	pH Units	7.35	4.59	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: Cox PC GK26-99HZ

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
01/05/23 14:03

Notes and Definitions

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
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 80401

303.277.9310

January 05, 2023

Martin Eckert III

Civitas Resources

650 Southgate Drive

Windsor, CO 80550

RE: Cox PC GK26-99HZ

Work Order # 2212575

Enclosed are the results of analyses for samples received by Summit Scientific on 12/30/22 18:02. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Sheely". The signature is fluid and cursive, with the first name "Scott" and last name "Sheely" clearly distinguishable.

Scott Sheely For Paul Shrewsbury

President



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Cox PC GK26-99HZ

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
01/05/23 13:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@2.5'	2212575-01	Soil	12/30/22 12:30	12/30/22 18:02
Background-02@2.5'	2212575-02	Soil	12/30/22 13:00	12/30/22 18:02
Background-03@2.5'	2212575-03	Soil	12/30/22 14:00	12/30/22 18:02
Background-04@2.5'	2212575-04	Soil	12/30/22 14:20	12/30/22 18:02

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.

Summit Scientific

S₂

2212575

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

Page 1 of 1

Client: Eagle Environmental Consulting / Civitas

Project Manager: Marlin Eckert III / Invoice Copy

Address: 8000 W 44th Ave

E-Mail: mee3@eagle-enviro.com

City/State/Zip: Wheat Ridge, CO 80033

Phone: 303-433-0479

Project Name: Cox PC GK 26-99 HZ

Sampler Name: IM

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	EC-9070A	SAR-20B	PH-9045D	Boron-DTA/Amals	Table 915/Amals	-6003/7196A		
1	Background-01 @ 2.5'	12/30/22	1230	2			X			X				X	X	X				EE/SAR/PH =
2	Background-02 @ 2.5'	↓	1300	↓			↓			↓				↓	↓	↓				Saturated paste prep
3	Background-03 @ 2.5'	↓	1400	↓			↓			↓				↓	↓	↓				
4	Background-04 @ 2.5'	↓	1420	↓			↓			↓				↓	↓	↓				MDLs needed
5																				
6																				
7																				
8																				
9																				
10																				

Relinquished by: Rick Mahut Date/Time: 12/30/22 1801

Relinquished by: Date/Time:

Temperature Upon Receipt: 0

IR gun correction:

Received by: Sheree Baker Date/Time: 12/30/22 18:02

Received by: Date/Time:

Corrected Temperature

IR gun #:

Turn Around Time (Check)

Same Day 72 hours

24 hours Standard ✓

48 hours

Sample Integrity:

Samples Intact: Yes No

Notes:

S₂

2212575

Sample Receipt Checklist

S2 Work Order# _____

Client: Eagle Environmental Consulting *Civitas* Client Project ID: Cox PC GK 26-99 H2

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"/>	ice
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 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 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.

53

Custodian Printed Name

12/30/22 18:02

Date/Time



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 13:59

Background-01@2.5'
2212575-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/30/22 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	1.21	0.0100	0.00690	mg/L	1	BGA0013	01/03/23	01/04/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/30/22 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Arsenic	3.57	0.228	0.192	mg/kg dry	1	BGA0019	01/03/23	01/04/23	EPA 6020B	
Barium	269	0.457	0.361	"	"	"	"	"	"	
Cadmium	0.260	0.228	0.00822	"	"	"	"	"	"	
Copper	8.01	0.457	0.0239	"	"	"	"	"	"	
Lead	6.87	0.228	0.0627	"	"	"	"	"	"	
Nickel	6.92	0.457	0.0696	"	"	"	"	"	"	
Selenium	0.732	0.297	0.200	"	"	"	"	"	"	
Silver	0.0358	0.0228	0.00305	"	"	"	"	"	"	
Zinc	31.9	0.457	0.304	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **12/30/22 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chromium, Hexavalent	ND	0.30	0.0040	mg/kg dry	1	BFL0775	12/31/22	01/01/23	EPA 7196A	

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

Date Sampled: **12/30/22 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Calcium	65.1	0.0571		mg/L dry	1	BGA0018	01/03/23	01/04/23	EPA 6020B	
Magnesium	13.5	0.0571		"	"	"	"	"	"	
Sodium	31.8	0.0571		"	"	"	"	"	"	

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 13:59

Background-01@2.5'
2212575-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **12/30/22 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Sodium Adsorption Ratio	0.937	0.00100		units	1	BGA0079	01/05/23	01/05/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/30/22 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	87.6			%	1	BGA0014	01/03/23	01/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/30/22 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.646	0.0100	0.00100	mmhos/cm	1	BGA0039	01/04/23	01/04/23	EPA 120.1	

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

Date Sampled: **12/30/22 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.36			pH Units	1	BGA0040	01/04/23	01/04/23	EPA 9045D	

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 13:59

Background-02@2.5'
2212575-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/30/22 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.914	0.0100	0.00690	mg/L	1	BGA0013	01/03/23	01/04/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/30/22 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Arsenic	3.09	0.231	0.194	mg/kg dry	1	BGA0019	01/03/23	01/04/23	EPA 6020B	
Barium	309	0.461	0.364	"	"	"	"	"	"	
Cadmium	0.341	0.231	0.00830	"	"	"	"	"	"	
Copper	10.3	0.461	0.0241	"	"	"	"	"	"	
Lead	9.11	0.231	0.0634	"	"	"	"	"	"	
Nickel	9.23	0.461	0.0703	"	"	"	"	"	"	
Selenium	0.988	0.300	0.202	"	"	"	"	"	"	
Silver	0.0556	0.0231	0.00308	"	"	"	"	"	"	
Zinc	41.0	0.461	0.307	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **12/30/22 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chromium, Hexavalent	ND	0.30	0.0040	mg/kg dry	1	BFL0775	12/31/22	01/01/23	EPA 7196A	

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

Date Sampled: **12/30/22 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Calcium	174	0.0576		mg/L dry	1	BGA0018	01/03/23	01/04/23	EPA 6020B	
Magnesium	16.9	0.0576		"	"	"	"	"	"	
Sodium	24.3	0.0576		"	"	"	"	"	"	

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 13:59

Background-02@2.5'
2212575-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **12/30/22 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Sodium Adsorption Ratio	0.471	0.00100		units	1	BGA0079	01/05/23	01/05/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/30/22 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	86.7			%	1	BGA0014	01/03/23	01/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/30/22 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.437	0.0100	0.00100	mmhos/cm	1	BGA0039	01/04/23	01/04/23	EPA 120.1	

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

Date Sampled: **12/30/22 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.78			pH Units	1	BGA0040	01/04/23	01/04/23	EPA 9045D	

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 13:59

Background-03@2.5'
2212575-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/30/22 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.380	0.0100	0.00690	mg/L	1	BGA0013	01/03/23	01/04/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/30/22 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Arsenic	3.22	0.226	0.191	mg/kg dry	1	BGA0019	01/03/23	01/04/23	EPA 6020B	
Barium	198	0.453	0.358	"	"	"	"	"	"	
Cadmium	0.243	0.226	0.00815	"	"	"	"	"	"	
Copper	7.20	0.453	0.0237	"	"	"	"	"	"	
Lead	7.43	0.226	0.0622	"	"	"	"	"	"	
Nickel	6.82	0.453	0.0690	"	"	"	"	"	"	
Selenium	0.829	0.294	0.198	"	"	"	"	"	"	
Silver	0.0389	0.0226	0.00302	"	"	"	"	"	"	
Zinc	31.8	0.453	0.301	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **12/30/22 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chromium, Hexavalent	ND	0.30	0.0040	mg/kg dry	1	BFL0775	12/31/22	01/01/23	EPA 7196A	

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

Date Sampled: **12/30/22 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Calcium	614	0.0566		mg/L dry	1	BGA0018	01/03/23	01/04/23	EPA 6020B	
Magnesium	38.3	0.0566		"	"	"	"	"	"	
Sodium	29.4	0.0566		"	"	"	"	"	"	

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 13:59

Background-03@2.5'
2212575-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **12/30/22 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Sodium Adsorption Ratio	0.311	0.00100		units	1	BGA0079	01/05/23	01/05/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/30/22 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	88.4			%	1	BGA0014	01/03/23	01/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/30/22 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.230	0.0100	0.00100	mmhos/cm	1	BGA0039	01/04/23	01/04/23	EPA 120.1	

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

Date Sampled: **12/30/22 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.34			pH Units	1	BGA0040	01/04/23	01/04/23	EPA 9045D	

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 13:59

Background-04@2.5'
2212575-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/30/22 14:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.643	0.0100	0.00690	mg/L	1	BGA0013	01/03/23	01/04/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/30/22 14:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Arsenic	4.11	0.224	0.188	mg/kg dry	1	BGA0019	01/03/23	01/04/23	EPA 6020B	
Barium	303	0.447	0.353	"	"	"	"	"	"	
Cadmium	0.246	0.224	0.00805	"	"	"	"	"	"	
Copper	7.70	0.447	0.0234	"	"	"	"	"	"	
Lead	6.74	0.224	0.0615	"	"	"	"	"	"	
Nickel	7.12	0.447	0.0682	"	"	"	"	"	"	
Selenium	0.839	0.291	0.196	"	"	"	"	"	"	
Silver	0.0341	0.0224	0.00299	"	"	"	"	"	"	
Zinc	33.1	0.447	0.297	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **12/30/22 14:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chromium, Hexavalent	ND	0.30	0.0040	mg/kg dry	1	BFL0775	12/31/22	01/01/23	EPA 7196A	

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

Date Sampled: **12/30/22 14:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Calcium	518	0.0559		mg/L dry	1	BGA0018	01/03/23	01/04/23	EPA 6020B	
Magnesium	35.0	0.0559		"	"	"	"	"	"	
Sodium	40.8	0.0559		"	"	"	"	"	"	

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 13:59

Background-04@2.5'
2212575-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **12/30/22 14:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Sodium Adsorption Ratio	0.468	0.00100		units	1	BGA0079	01/05/23	01/05/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/30/22 14:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	89.4			%	1	BGA0014	01/03/23	01/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/30/22 14:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.335	0.0100	0.00100	mmhos/cm	1	BGA0039	01/04/23	01/04/23	EPA 120.1	

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

Date Sampled: **12/30/22 14:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.20			pH Units	1	BGA0040	01/04/23	01/04/23	EPA 9045D	

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 13:59

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

Summit Scientific

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

Batch BGA0013 - EPA 3050B

Blank (BGA0013-BLK1)

Prepared: 01/03/23 Analyzed: 01/04/23

Boron ND 0.0100 mg/L

LCS (BGA0013-BS1)

Prepared: 01/03/23 Analyzed: 01/04/23

Boron 5.92 0.0100 mg/L 5.00 118 80-120

Duplicate (BGA0013-DUP1)

Source: 2212572-01

Prepared: 01/03/23 Analyzed: 01/04/23

Boron 0.181 0.0100 mg/L 0.154 16.1 20

Matrix Spike (BGA0013-MS1)

Source: 2212572-01

Prepared: 01/03/23 Analyzed: 01/04/23

Boron 5.09 0.0100 mg/L 5.00 0.154 98.7 75-125

Matrix Spike Dup (BGA0013-MSD1)

Source: 2212572-01

Prepared: 01/03/23 Analyzed: 01/04/23

Boron 5.09 0.0100 mg/L 5.00 0.154 98.7 75-125 0.0155 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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:

01/05/23 13:59

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BGA0019 - EPA 3050B

Blank (BGA0019-BLK1)

Prepared: 01/03/23 Analyzed: 01/04/23

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	0.0414	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BGA0019-BS1)

Prepared: 01/03/23 Analyzed: 01/04/23

Arsenic	44.2	0.200	mg/kg wet	40.0	111	80-120
Barium	43.3	0.400	"	40.0	108	80-120
Cadmium	2.12	0.200	"	2.00	106	80-120
Copper	41.7	0.400	"	40.0	104	80-120
Lead	20.9	0.200	"	20.0	104	80-120
Nickel	41.8	0.400	"	40.0	105	80-120
Selenium	4.29	0.260	"	4.00	107	80-120
Silver	2.09	0.0200	"	2.00	104	80-120
Zinc	44.8	0.400	"	40.0	112	80-120

Duplicate (BGA0019-DUP1)

Source: 2212575-01

Prepared: 01/03/23 Analyzed: 01/04/23

Arsenic	3.57	0.228	mg/kg dry	3.57	0.0148	20
Barium	271	0.457	"	269	0.723	20
Cadmium	0.259	0.228	"	0.260	0.0426	20
Copper	8.11	0.457	"	8.01	1.24	20
Lead	6.90	0.228	"	6.87	0.448	20
Nickel	7.01	0.457	"	6.92	1.39	20
Selenium	0.839	0.297	"	0.732	13.6	20
Silver	0.0392	0.0228	"	0.0358	8.99	20
Zinc	32.5	0.457	"	31.9	1.64	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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:

01/05/23 13:59

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BGA0019 - EPA 3050B

Matrix Spike (BGA0019-MS1)

Source: 2212575-01

Prepared: 01/03/23 Analyzed: 01/04/23

Arsenic	44.4	0.228	mg/kg dry	45.7	3.57	89.5	75-125			
Barium	280	0.457	"	45.7	269	22.7	75-125			QM-05
Cadmium	2.07	0.228	"	2.28	0.260	79.3	75-125			
Copper	43.3	0.457	"	45.7	8.01	77.2	75-125			
Lead	22.8	0.228	"	22.8	6.87	69.9	75-125			QM-05
Nickel	44.1	0.457	"	45.7	6.92	81.3	75-125			
Selenium	4.47	0.297	"	4.57	0.732	81.9	75-125			
Silver	1.83	0.0228	"	2.28	0.0358	78.6	75-125			
Zinc	68.8	0.457	"	45.7	31.9	80.7	75-125			

Matrix Spike Dup (BGA0019-MSD1)

Source: 2212575-01

Prepared: 01/03/23 Analyzed: 01/04/23

Arsenic	55.9	0.228	mg/kg dry	45.7	3.57	115	75-125	22.9	25	
Barium	361	0.457	"	45.7	269	201	75-125	25.4	25	QM-05
Cadmium	2.60	0.228	"	2.28	0.260	103	75-125	22.8	25	
Copper	54.8	0.457	"	45.7	8.01	103	75-125	23.6	25	
Lead	27.9	0.228	"	22.8	6.87	92.1	75-125	20.0	25	
Nickel	56.0	0.457	"	45.7	6.92	107	75-125	23.9	25	
Selenium	5.38	0.297	"	4.57	0.732	102	75-125	18.6	25	
Silver	2.32	0.0228	"	2.28	0.0358	100	75-125	23.5	25	
Zinc	79.8	0.457	"	45.7	31.9	105	75-125	14.9	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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 13:59

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFL0775 - 3060A Mod

Blank (BFL0775-BLK1)

Prepared: 12/31/22 Analyzed: 01/01/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFL0775-BS1)

Prepared: 12/31/22 Analyzed: 01/01/23

Chromium, Hexavalent 24.4 0.30 mg/kg wet 25.0 97.4 80-120

Duplicate (BFL0775-DUP1)

Source: 2212567-01

Prepared: 12/31/22 Analyzed: 01/01/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFL0775-MS1)

Source: 2212567-01

Prepared: 12/31/22 Analyzed: 01/01/23

Chromium, Hexavalent 29.1 0.30 mg/kg dry 29.4 ND 99.0 75-125

Matrix Spike Dup (BFL0775-MSD1)

Source: 2212567-01

Prepared: 12/31/22 Analyzed: 01/01/23

Chromium, Hexavalent 29.3 0.30 mg/kg dry 29.4 ND 99.6 75-125 0.604 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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 13:59

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

Summit Scientific

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

Batch BGA0018 - General Preparation

Blank (BGA0018-BLK1)

Prepared: 01/03/23 Analyzed: 01/04/23

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

LCS (BGA0018-BS1)

Prepared: 01/03/23 Analyzed: 01/04/23

Calcium	4.73	0.0500	mg/L wet	5.00	94.6	70-130
Magnesium	4.69	0.0500	"	5.00	93.8	70-130
Sodium	4.50	0.0500	"	5.00	90.0	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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:

01/05/23 13:59

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 BGA0014 - General Preparation

Duplicate (BGA0014-DUP1)

Source: 2212572-01

Prepared & Analyzed: 01/03/23

% Solids	95.3	%	94.7	0.709	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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
01/05/23 13:59

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 BGA0039 - General Preparation

Blank (BGA0039-BLK1)

Prepared & Analyzed: 01/04/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGA0039-BS1)

Prepared & Analyzed: 01/04/23

Specific Conductance (EC) 0.149 0.0100 mmhos/cm 0.150 99.4 95-105

Duplicate (BGA0039-DUP1)

Source: 2212572-01

Prepared & Analyzed: 01/04/23

Specific Conductance (EC) 0.231 0.0100 mmhos/cm 0.234 1.16 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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:

01/05/23 13:59

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

Summit Scientific

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

Batch BGA0040 - General Preparation

LCS (BGA0040-BS1)

Prepared & Analyzed: 01/04/23

pH	9.19	pH Units	9.18	100	95-105
----	------	----------	------	-----	--------

Duplicate (BGA0040-DUP1)

Source: 2212572-01

Prepared & Analyzed: 01/04/23

pH	7.02	pH Units	7.35	4.59	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: Cox PC GK26-99HZ

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
01/05/23 13:59

Notes and Definitions

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
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 80401

303.277.9310

February 09, 2023

Martin Eckert III

Civitas Resources

650 Southgate Drive

Windsor, CO 80550

RE: Cox PC GK26-99HZ

Work Order # 2302104

Enclosed are the results of analyses for samples received by Summit Scientific on 02/07/23 14:28. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Sheely". The signature is fluid and cursive, with the first name "Scott" and last name "Sheely" clearly distinguishable.

Scott Sheely For Paul Shrewsbury

President



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Cox PC GK26-99HZ

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
02/09/23 15:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS-SS-01@2.5'	2302104-01	Soil	02/07/23 11:35	02/07/23 14:28
CS-SS-02@2.5'	2302104-02	Soil	02/07/23 11:40	02/07/23 14:28
CS-FS-01@3'	2302104-03	Soil	02/07/23 11:45	02/07/23 14:28

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

S₂

2302804

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page

of

Client: Eagle Environmental Consulting / Civitas

Project Manager: Martin Eckert III / invoice Cory

Address: 8000 W 44th Ave

E-Mail: mce3@eagle-enviro.com

City/State/Zip: Wheat Ridge, CO 80033

Phone: 303-433-0479

Project Name: Cox PL GK 26-99HZ

Sampler Name: IM

Project Number: —

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	G, BTEX, THAs - 8260D	DDO/BAO-8015D	PAHs-8270D SIM	Boron-DiM/50th In	EC-9050A	SAR-7013	PH-9045D		
1	CS-SS-01 @ 2.5'	2/7/23	1135	2			X			X				X	X	X	X				EC/SAR/PH =
2	CS-SS-02 @ 2.5'	↓	1140	↓			↓			↓				X	X	X	X				Saturated paste prep
3	CS-FS-01 @ 3'	↓	1145	↓			↓			↓				X	X	X	X				
4																					MDLs needed
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/7/23/1427</u>	Received by: <u>[Signature]</u>	Date/Time: <u>14:28</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time: <u>02/07/23</u>	Same Day <input checked="" type="checkbox"/> 72 hours <input type="checkbox"/>	
				24 hours <input type="checkbox"/> Standard <input type="checkbox"/>	
				48 hours <input type="checkbox"/>	
Temperature Upon Receipt: <u>1.1</u>	Corrected Temperature <u>—</u>	HNO3 lot # <u>—</u>	Sample Integrity:	Samples Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>	
IR gun correction: <u>—</u>	IR gun #: <u>02</u>				

S₂

Sample Receipt Checklist

S2 Work Order# 2302104

Client: Eagle Environmental Consulting/Civitas Client Project ID: Cox PC GK 26-94HZ
 Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: _____

☒ ☐ ☐ ☐ ☐

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

Temp (°C)

1.1

Thermometer #

02

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ICE
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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.Cruver Storchman

Custodian Printed Name

02/07/23

Date/Time

14:35pm



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/09/23 15:25

CS-SS-01@2.5'

2302104-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/07/23 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGB0182	02/07/23	02/07/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.11	0.50		"	"	"	"	"	"	

Date Sampled: **02/07/23 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		81.5 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		88.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.3 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/07/23 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	11	50	4.3	mg/kg	1	BGB0183	02/07/23	02/07/23	EPA 8015M	
C28-C36 (ORO)	5.5	50	4.3	"	"	"	"	"	"	

Date Sampled: **02/07/23 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		135 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/09/23 15:25

CS-SS-01@2.5'
2302104-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/07/23 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGB0191	02/08/23	02/09/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **02/07/23 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		75.9 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		61.5 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/07/23 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	3.25	0.0100	0.00690	mg/L	1	BGB0184	02/07/23	02/09/23	EPA 6020B	

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

Date Sampled: **02/07/23 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/09/23 15:25

CS-SS-01@2.5'
2302104-01 (Soil)

Summit Scientific

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

Calcium	1300	0.0631	mg/L dry	1	BGB0170	02/07/23	02/09/23	EPA 6020B
Magnesium	86.4	0.0631	"	"	"	"	"	"
Sodium	805	0.0631	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **02/07/23 11:35**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.84	0.00100		units	1	BGB0264	02/09/23	02/09/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/07/23 11:35**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.3			%	1	BGB0202	02/08/23	02/08/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/07/23 11:35**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.08	0.0100	0.00100	mmhos/cm	1	BGB0198	02/08/23	02/08/23	EPA 120.1	

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

Date Sampled: **02/07/23 11:35**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.84			pH Units	1	BGB0199	02/08/23	02/08/23	EPA 9045D	

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/09/23 15:25

CS-SS-02@2.5'
2302104-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/07/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGB0182	02/07/23	02/07/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.12	0.50		"	"	"	"	"	"	

Date Sampled: **02/07/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		83.1 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		92.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/07/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	12	50	4.3	mg/kg	1	BGB0183	02/07/23	02/07/23	EPA 8015M	
C28-C36 (ORO)	4.9	50	4.3	"	"	"	"	"	"	

Date Sampled: **02/07/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		117 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/09/23 15:25

CS-SS-02@2.5'
2302104-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/07/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGB0191	02/08/23	02/09/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **02/07/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		85.6 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		67.6 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/07/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.349	0.0100	0.00690	mg/L	1	BGB0184	02/07/23	02/09/23	EPA 6020B	

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

Date Sampled: **02/07/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/09/23 15:25

CS-SS-02@2.5'
2302104-02 (Soil)

Summit Scientific

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

Calcium	59.5	0.0654	mg/L dry	1	BGB0170	02/07/23	02/09/23	EPA 6020B
Magnesium	8.04	0.0654	"	"	"	"	"	"
Sodium	62.8	0.0654	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **02/07/23 11:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.03	0.00100		units	1	BGB0264	02/09/23	02/09/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/07/23 11:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	76.5			%	1	BGB0202	02/08/23	02/08/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/07/23 11:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.670	0.0100	0.00100	mmhos/cm	1	BGB0198	02/08/23	02/08/23	EPA 120.1	

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

Date Sampled: **02/07/23 11:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.79			pH Units	1	BGB0199	02/08/23	02/08/23	EPA 9045D	

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/09/23 15:25

CS-FS-01@3'
2302104-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/07/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGB0182	02/07/23	02/07/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.12	0.50		"	"	"	"	"	"	

Date Sampled: **02/07/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		79.0 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		88.9 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/07/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	16	50	4.3	mg/kg	1	BGB0183	02/07/23	02/07/23	EPA 8015M	
C28-C36 (ORO)	ND	50	4.3	"	"	"	"	"	"	

Date Sampled: **02/07/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		111 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/09/23 15:25

CS-FS-01@3'
2302104-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/07/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGB0191	02/08/23	02/09/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **02/07/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		85.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		73.4 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/07/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.170	0.0100	0.00690	mg/L	1	BGB0184	02/07/23	02/09/23	EPA 6020B	

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

Date Sampled: **02/07/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/09/23 15:25

CS-FS-01@3'
2302104-03 (Soil)

Summit Scientific

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

Calcium	73.9	0.0722	mg/L dry	1	BGB0170	02/07/23	02/09/23	EPA 6020B
Magnesium	16.6	0.0722	"	"	"	"	"	"
Sodium	168	0.0722	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **02/07/23 11:45**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.60	0.00100		units	1	BGB0264	02/09/23	02/09/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/07/23 11:45**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	69.3			%	1	BGB0202	02/08/23	02/08/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/07/23 11:45**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.37	0.0100	0.00100	mmhos/cm	1	BGB0198	02/08/23	02/08/23	EPA 120.1	

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

Date Sampled: **02/07/23 11:45**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.68			pH Units	1	BGB0199	02/08/23	02/08/23	EPA 9045D	

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: Cox PC GK26-99HZ

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
02/09/23 15:25

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 BGB0182 - EPA 5030 Soil MS

Blank (BGB0182-BLK1)

Prepared: 02/07/23 Analyzed: 02/08/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	0.170	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0447		"	0.0400		112	50-150			
Surrogate: Toluene-d8	0.0470		"	0.0400		118	50-150			
Surrogate: 4-Bromofluorobenzene	0.0494		"	0.0400		123	50-150			

LCS (BGB0182-BS1)

Prepared: 02/07/23 Analyzed: 02/08/23

Benzene	0.0869	0.0020	mg/kg	0.100		86.9	70-130			
Toluene	0.0869	0.0050	"	0.100		86.9	70-130			
Ethylbenzene	0.108	0.0050	"	0.100		108	70-130			
m,p-Xylene	0.221	0.010	"	0.200		110	70-130			
o-Xylene	0.103	0.0050	"	0.100		103	70-130			
1,2,4-Trimethylbenzene	0.0972	0.0050	"	0.100		97.2	70-130			
1,3,5-Trimethylbenzene	0.103	0.0050	"	0.100		103	70-130			
Naphthalene	0.0911	0.0038	"	0.100		91.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0246		"	0.0400		61.4	50-150			
Surrogate: Toluene-d8	0.0354		"	0.0400		88.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0374		"	0.0400		93.5	50-150			

Matrix Spike (BGB0182-MS1)

Source: 2302104-01

Prepared: 02/07/23 Analyzed: 02/08/23

Benzene	0.0809	0.0020	mg/kg	0.100	ND	80.9	70-130			
Toluene	0.0727	0.0050	"	0.100	ND	72.7	70-130			
Ethylbenzene	0.0992	0.0050	"	0.100	ND	99.2	70-130			
m,p-Xylene	0.199	0.010	"	0.200	ND	99.4	70-130			
o-Xylene	0.0929	0.0050	"	0.100	ND	92.9	70-130			
1,2,4-Trimethylbenzene	0.0862	0.0050	"	0.100	ND	86.2	70-130			
1,3,5-Trimethylbenzene	0.0889	0.0050	"	0.100	ND	88.9	70-130			
Naphthalene	0.0933	0.0038	"	0.100	ND	93.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0238		"	0.0400		59.4	50-150			
Surrogate: Toluene-d8	0.0324		"	0.0400		81.1	50-150			
Surrogate: 4-Bromofluorobenzene	0.0366		"	0.0400		91.5	50-150			

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/09/23 15:25

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 BGB0182 - EPA 5030 Soil MS

Matrix Spike Dup (BGB0182-MSD1)	Source: 2302104-01			Prepared: 02/07/23 Analyzed: 02/08/23						
Benzene	0.0796	0.0020	mg/kg	0.100	ND	79.6	70-130	1.53	30	
Toluene	0.0718	0.0050	"	0.100	ND	71.8	70-130	1.16	30	
Ethylbenzene	0.0979	0.0050	"	0.100	ND	97.9	70-130	1.31	30	
m,p-Xylene	0.195	0.010	"	0.200	ND	97.4	70-130	2.07	30	
o-Xylene	0.0916	0.0050	"	0.100	ND	91.6	70-130	1.40	30	
1,2,4-Trimethylbenzene	0.0849	0.0050	"	0.100	ND	84.9	70-130	1.51	30	
1,3,5-Trimethylbenzene	0.0883	0.0050	"	0.100	ND	88.3	70-130	0.643	30	
Naphthalene	0.0923	0.0038	"	0.100	ND	92.3	70-130	1.03	30	
Surrogate: 1,2-Dichloroethane-d4	0.0239		"	0.0400		59.8	50-150			
Surrogate: Toluene-d8	0.0326		"	0.0400		81.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0362		"	0.0400		90.4	50-150			

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/09/23 15:25

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 BGB0183 - EPA 3550A

Blank (BGB0183-BLK1)

Prepared: 02/07/23 Analyzed: 02/08/23

C10-C28 (DRO)	19.2	50	mg/kg							
C28-C36 (ORO)	5.14	50	"							
Surrogate: o-Terphenyl	13.0		"	12.5		104	30-150			

LCS (BGB0183-BS1)

Prepared: 02/07/23 Analyzed: 02/08/23

C10-C28 (DRO)	455	50	mg/kg	500		91.0	70-130			
Surrogate: o-Terphenyl	13.3		"	12.5		106	30-150			

Matrix Spike (BGB0183-MS1)

Source: 2302104-01

Prepared: 02/07/23 Analyzed: 02/08/23

C10-C28 (DRO)	422	50	mg/kg	500	10.6	82.3	70-130			
Surrogate: o-Terphenyl	11.5		"	12.5		92.0	30-150			

Matrix Spike Dup (BGB0183-MSD1)

Source: 2302104-01

Prepared: 02/07/23 Analyzed: 02/08/23

C10-C28 (DRO)	405	50	mg/kg	500	10.6	78.8	70-130	4.21	20	
Surrogate: o-Terphenyl	11.4		"	12.5		91.4	30-150			

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: Cox PC GK26-99HZ

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
02/09/23 15:25

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGB0191 - EPA 5030 Soil MS

Blank (BGB0191-BLK1)

Prepared & Analyzed: 02/08/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0333		"	0.0333		99.9	40-150			
Surrogate: Fluoranthene-d10	0.0289		"	0.0333		86.8	40-150			

LCS (BGB0191-BS1)

Prepared & Analyzed: 02/08/23

Acenaphthene	0.0373	0.00500	mg/kg	0.0333		112	31-137			
Anthracene	0.0344	0.00500	"	0.0333		103	30-120			
Benzo (a) anthracene	0.0269	0.00500	"	0.0333		80.6	30-120			
Benzo (a) pyrene	0.0280	0.00500	"	0.0333		84.1	30-120			
Benzo (b) fluoranthene	0.0272	0.00500	"	0.0333		81.6	30-120			
Benzo (k) fluoranthene	0.0340	0.00500	"	0.0333		102	30-120			
Chrysene	0.0294	0.00500	"	0.0333		88.1	30-120			
Dibenz (a,h) anthracene	0.0301	0.00500	"	0.0333		90.2	30-120			
Fluoranthene	0.0383	0.00500	"	0.0333		115	30-120			
Fluorene	0.0330	0.00500	"	0.0333		99.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0279	0.00500	"	0.0333		83.7	30-120			
Pyrene	0.0306	0.00500	"	0.0333		91.9	35-142			
1-Methylnaphthalene	0.0294	0.00500	"	0.0333		88.2	35-142			
2-Methylnaphthalene	0.0317	0.00500	"	0.0333		95.0	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0294		"	0.0333		88.1	40-150			
Surrogate: Fluoranthene-d10	0.0373		"	0.0333		112	40-150			

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: Cox PC GK26-99HZ

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
02/09/23 15:25

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGB0191 - EPA 5030 Soil MS

Matrix Spike (BGB0191-MS1)

Source: 2302103-01

Prepared & Analyzed: 02/08/23

Acenaphthene	0.0203	0.00500	mg/kg	0.0333	ND	60.9	31-137		
Anthracene	0.0191	0.00500	"	0.0333	ND	57.2	30-120		
Benzo (a) anthracene	0.0168	0.00500	"	0.0333	ND	50.4	30-120		
Benzo (a) pyrene	0.0154	0.00500	"	0.0333	ND	46.2	30-120		
Benzo (b) fluoranthene	0.0144	0.00500	"	0.0333	ND	43.1	30-120		
Benzo (k) fluoranthene	0.0176	0.00500	"	0.0333	ND	52.8	30-120		
Chrysene	0.0158	0.00500	"	0.0333	ND	47.5	30-120		
Dibenz (a,h) anthracene	0.0156	0.00500	"	0.0333	ND	46.8	30-120		
Fluoranthene	0.0193	0.00500	"	0.0333	ND	57.9	30-120		
Fluorene	0.0185	0.00500	"	0.0333	ND	55.4	30-120		
Indeno (1,2,3-cd) pyrene	0.0149	0.00500	"	0.0333	ND	44.7	30-120		
Pyrene	0.0168	0.00500	"	0.0333	ND	50.5	35-142		
1-Methylnaphthalene	0.0199	0.00500	"	0.0333	ND	59.8	15-130		
2-Methylnaphthalene	0.0224	0.00500	"	0.0333	ND	67.3	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0196		"	0.0333		58.8	40-150		
Surrogate: Fluoranthene-d10	0.0195		"	0.0333		58.5	40-150		

Matrix Spike Dup (BGB0191-MSD1)

Source: 2302103-01

Prepared & Analyzed: 02/08/23

Acenaphthene	0.0187	0.00500	mg/kg	0.0333	ND	56.1	31-137	8.08	30
Anthracene	0.0174	0.00500	"	0.0333	ND	52.3	30-120	8.80	30
Benzo (a) anthracene	0.0161	0.00500	"	0.0333	ND	48.3	30-120	4.19	30
Benzo (a) pyrene	0.0145	0.00500	"	0.0333	ND	43.5	30-120	6.09	30
Benzo (b) fluoranthene	0.0152	0.00500	"	0.0333	ND	45.6	30-120	5.76	30
Benzo (k) fluoranthene	0.0155	0.00500	"	0.0333	ND	46.6	30-120	12.4	30
Chrysene	0.0147	0.00500	"	0.0333	ND	44.0	30-120	7.53	30
Dibenz (a,h) anthracene	0.0147	0.00500	"	0.0333	ND	44.2	30-120	5.77	30
Fluoranthene	0.0210	0.00500	"	0.0333	ND	62.9	30-120	8.29	30
Fluorene	0.0164	0.00500	"	0.0333	ND	49.3	30-120	11.5	30
Indeno (1,2,3-cd) pyrene	0.0140	0.00500	"	0.0333	ND	42.1	30-120	6.12	30
Pyrene	0.0170	0.00500	"	0.0333	ND	50.9	35-142	0.680	30
1-Methylnaphthalene	0.0176	0.00500	"	0.0333	ND	52.8	15-130	12.4	50
2-Methylnaphthalene	0.0208	0.00500	"	0.0333	ND	62.3	15-130	7.66	50
Surrogate: 2-Methylnaphthalene-d10	0.0179		"	0.0333		53.7	40-150		
Surrogate: Fluoranthene-d10	0.0208		"	0.0333		62.4	40-150		

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/09/23 15:25

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

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

Batch BGB0184 - EPA 3050B

Blank (BGB0184-BLK1)

Prepared: 02/07/23 Analyzed: 02/09/23

Boron ND 0.0100 mg/L

LCS (BGB0184-BS1)

Prepared: 02/07/23 Analyzed: 02/09/23

Boron 4.99 0.0100 mg/L 5.00 99.8 80-120

Duplicate (BGB0184-DUP1)

Source: 2302069-01

Prepared: 02/07/23 Analyzed: 02/09/23

Boron 0.165 0.0100 mg/L 0.177 7.18 20

Matrix Spike (BGB0184-MS1)

Source: 2302069-01

Prepared: 02/07/23 Analyzed: 02/09/23

Boron 5.00 0.0100 mg/L 5.00 0.177 96.4 75-125

Matrix Spike Dup (BGB0184-MSD1)

Source: 2302069-01

Prepared: 02/07/23 Analyzed: 02/09/23

Boron 4.94 0.0100 mg/L 5.00 0.177 95.3 75-125 1.15 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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/09/23 15:25

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

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

Batch BGB0170 - General Preparation

Blank (BGB0170-BLK1)

Prepared: 02/07/23 Analyzed: 02/09/23

Calcium	0.0442	0.0500	mg/L wet
Magnesium	0.00333	0.0500	"
Sodium	ND	0.0500	"

LCS (BGB0170-BS1)

Prepared: 02/07/23 Analyzed: 02/09/23

Calcium	5.43	0.0500	mg/L wet	5.00	109	70-130
Magnesium	4.92	0.0500	"	5.00	98.4	70-130
Sodium	4.69	0.0500	"	5.00	93.9	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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:

02/09/23 15:25

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 BGB0202 - General Preparation

Duplicate (BGB0202-DUP1)

Source: 2302104-01

Prepared & Analyzed: 02/08/23

% Solids	81.5	%		79.3		2.73	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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:

02/09/23 15:25

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 BGB0198 - General Preparation

Blank (BGB0198-BLK1)

Prepared & Analyzed: 02/08/23

Specific Conductance (EC) 0.00120 0.0100 mmhos/cm

LCS (BGB0198-BS1)

Prepared & Analyzed: 02/08/23

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

Duplicate (BGB0198-DUP1)

Source: 2211388-01

Prepared & Analyzed: 02/08/23

Specific Conductance (EC) 0.413 0.0100 mmhos/cm 0.417 0.867 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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/09/23 15:25

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control
Summit Scientific

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

Batch BGB0199 - General Preparation

LCS (BGB0199-BS1)

Prepared & Analyzed: 02/08/23

pH	9.05	pH Units	9.18	98.6	95-105
----	------	----------	------	------	--------

Duplicate (BGB0199-DUP1)

Source: 2302067-01

Prepared & Analyzed: 02/08/23

pH	8.29	pH Units	8.38	1.08	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: Cox PC GK26-99HZ

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
02/09/23 15:25

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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

February 27, 2023

Martin Eckert III

Civitas Resources

650 Southgate Drive

Windsor, CO 80550

RE: Cox PC GK26-99HZ

Work Order # 2302399

Enclosed are the results of analyses for samples received by Summit Scientific on 02/21/23 17:11. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Sheely". The signature is fluid and cursive, with the first name "Scott" and last name "Sheely" clearly distinguishable.

Scott Sheely For Paul Shrewsbury

President



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/27/23 12:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS-SS-03@2.5'	2302399-01	Soil	02/21/23 13:15	02/21/23 17:11
CS-FS-02@3'	2302399-02	Soil	02/21/23 13:20	02/21/23 17:11

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

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

Lab ID

Page 1 of 1

2302399

Send Data To:

Send Invoice To:

Client: Eagle Environmental Consulting
Address: 8000 W 44th Ave
City/State/Zip: Wheat Ridge, CO 80033
Phone: 303-433-0479
Sampler Name: TL

Project Manager: Martin Eckert III
E-Mail: mce3@eagle-enviro.com
Project Name: Cox PC GK 26-99HZ
Project Number: —

Company: Civitas
Project Name/Location:
AFE#:
PO/Billing Codes:
Contact: Cory

Preservative

Matrix

Analysis Requested

Special Instructions

ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	G, BTEX, Naphthalene, TMS-8260D	DRD/BRO -8015D	PAHs -8270Dsin	EC-9050A	SAR-20A	pH-9045D	Boron -DTPA/5or10ml	
1	CS-SS-03 @ 2.5'	2-21-23	1315	2			X			X			X	X	X	X	X	X	X	EC, SAR, pH =
2	CS-FS-02 @ 3'	2-21-23	1320	2			X			X			X	X	X	X	X	X	X	saturated Paste Reg
3																				MDLs needed
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: Trevor Lytle Date/Time: 2-21-23/1710

Received by: Sara Shochy Date/Time: 2/21/23 1711

TAT Business Days

Field DO

Notes:

Same Day

X

Field EC

Relinquished by:

Date/Time:

Received by:

Date/Time:

1 Day

Field ORP

2 Days

Field pH

3 Days

Field Temp.

Standard

Field Turb.

Temperature Upon Receipt: 3.8

Corrected Temperature: —

IR gun #: 02

HNO3 lot #: —

S₂

Sample Receipt Checklist

S2 Work Order# 2302399Client: Eagle Environmental Client Project ID: Cox PC GK 26-99 H2Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 38 Thermometer # 02

	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"/>	<u>on Ice</u>
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Same day</u>
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.

 Custodian Printed Name

2/21/23 1711
 Date/Time



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/27/23 12:35

CS-SS-03@2.5'
2302399-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/21/23 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGB0673	02/21/23	02/21/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.0093	0.50		"	"	"	"	"	"	

Date Sampled: **02/21/23 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		89.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		92.7 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.4 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/21/23 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	19	50	4.3	mg/kg	1	BGB0674	02/21/23	02/21/23	EPA 8015M	
C28-C36 (ORO)	ND	50	4.3	"	"	"	"	"	"	

Date Sampled: **02/21/23 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		115 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/27/23 12:35

CS-SS-03@2.5'
2302399-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/21/23 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGB0684	02/22/23	02/22/23	EPA 8270D SIM	
Anthracene	0.00314	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **02/21/23 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		52.5 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		48.1 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/21/23 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.451	0.0100	0.00690	mg/L	1	BGB0675	02/21/23	02/23/23	EPA 6020B	

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

Date Sampled: **02/21/23 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/27/23 12:35

CS-SS-03@2.5'
2302399-01 (Soil)

Summit Scientific

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

Calcium	712	0.0592	mg/L dry	1	BGB0677	02/21/23	02/23/23	EPA 6020B
Magnesium	29.2	0.0592	"	"	"	"	"	"
Sodium	154	0.0592	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **02/21/23 13:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.53	0.00100		units	1	BGB0746	02/23/23	02/23/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/21/23 13:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.5			%	1	BGB0698	02/22/23	02/22/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/21/23 13:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.629	0.0100	0.00100	mmhos/cm	1	BGB0701	02/22/23	02/22/23	EPA 120.1	

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

Date Sampled: **02/21/23 13:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.83			pH Units	1	BGB0702	02/22/23	02/22/23	EPA 9045D	

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/27/23 12:35

CS-FS-02@3'
2302399-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/21/23 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGB0673	02/21/23	02/21/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.0098	0.50		"	"	"	"	"	"	

Date Sampled: **02/21/23 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		94.5 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		96.0 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.6 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **02/21/23 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	12	50	4.3	mg/kg	1	BGB0674	02/21/23	02/21/23	EPA 8015M	
C28-C36 (ORO)	4.6	50	4.3	"	"	"	"	"	"	

Date Sampled: **02/21/23 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		100 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/27/23 12:35

CS-FS-02@3'
2302399-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **02/21/23 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGB0684	02/22/23	02/23/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **02/21/23 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		42.6 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		45.0 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/21/23 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.445	0.0100	0.00690	mg/L	1	BGB0675	02/21/23	02/23/23	EPA 6020B	

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

Date Sampled: **02/21/23 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/27/23 12:35

CS-FS-02@3'
2302399-02 (Soil)

Summit Scientific

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

Calcium	77.1	0.0653	mg/L dry	1	BGB0677	02/21/23	02/23/23	EPA 6020B
Magnesium	11.8	0.0653	"	"	"	"	"	"
Sodium	614	0.0653	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **02/21/23 13:20**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	17.2	0.00100		units	1	BGB0746	02/23/23	02/23/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/21/23 13:20**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	76.5			%	1	BGB0698	02/22/23	02/22/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/21/23 13:20**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.60	0.0100	0.00100	mmhos/cm	1	BGB0701	02/22/23	02/22/23	EPA 120.1	

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

Date Sampled: **02/21/23 13:20**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.90			pH Units	1	BGB0702	02/22/23	02/22/23	EPA 9045D	

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/27/23 12:35

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 BGB0673 - EPA 5030 Soil MS

Blank (BGB0673-BLK1)

Prepared: 02/21/23 Analyzed: 02/22/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	0.0174	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0319		"	0.0400		79.7	50-150			
Surrogate: Toluene-d8	0.0375		"	0.0400		93.7	50-150			
Surrogate: 4-Bromofluorobenzene	0.0376		"	0.0400		94.0	50-150			

Blank (BGB0673-BLK2)

Prepared: 02/21/23 Analyzed: 02/22/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0352		"	0.0400		88.0	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0435		"	0.0400		109	50-150			

LCS (BGB0673-BS1)

Prepared: 02/21/23 Analyzed: 02/22/23

Benzene	0.0921	0.0020	mg/kg	0.100		92.1	70-130			
Toluene	0.0865	0.0050	"	0.100		86.5	70-130			
Ethylbenzene	0.104	0.0050	"	0.100		104	70-130			
m,p-Xylene	0.206	0.010	"	0.200		103	70-130			
o-Xylene	0.0966	0.0050	"	0.100		96.6	70-130			
1,2,4-Trimethylbenzene	0.0968	0.0050	"	0.100		96.8	70-130			
1,3,5-Trimethylbenzene	0.102	0.0050	"	0.100		102	70-130			
Naphthalene	0.0957	0.0038	"	0.100		95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0283		"	0.0400		70.8	50-150			
Surrogate: Toluene-d8	0.0372		"	0.0400		93.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0357		"	0.0400		89.2	50-150			

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/27/23 12:35

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 BGB0673 - EPA 5030 Soil MS

LCS (BGB0673-BS2)

Prepared: 02/21/23 Analyzed: 02/22/23

Benzene	0.116	0.0020	mg/kg	0.100		116	70-130			
Toluene	0.121	0.0050	"	0.100		121	70-130			
Ethylbenzene	0.124	0.0050	"	0.100		124	70-130			
m,p-Xylene	0.243	0.010	"	0.200		122	70-130			
o-Xylene	0.115	0.0050	"	0.100		115	70-130			
1,2,4-Trimethylbenzene	0.126	0.0050	"	0.100		126	70-130			
1,3,5-Trimethylbenzene	0.126	0.0050	"	0.100		126	70-130			
Naphthalene	0.0796	0.0038	"	0.100		79.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0358		"	0.0400		89.6	50-150			
Surrogate: Toluene-d8	0.0410		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	50-150			

Matrix Spike (BGB0673-MS1)

Source: 2302398-01

Prepared: 02/21/23 Analyzed: 02/22/23

Benzene	0.0878	0.0020	mg/kg	0.100	ND	87.8	70-130			
Toluene	0.0817	0.0050	"	0.100	ND	81.7	70-130			
Ethylbenzene	0.0985	0.0050	"	0.100	ND	98.5	70-130			
m,p-Xylene	0.196	0.010	"	0.200	ND	98.2	70-130			
o-Xylene	0.0937	0.0050	"	0.100	ND	93.7	70-130			
1,2,4-Trimethylbenzene	0.0946	0.0050	"	0.100	ND	94.6	70-130			
1,3,5-Trimethylbenzene	0.0972	0.0050	"	0.100	ND	97.2	70-130			
Naphthalene	0.0719	0.0038	"	0.100	ND	71.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0297		"	0.0400		74.3	50-150			
Surrogate: Toluene-d8	0.0372		"	0.0400		93.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0358		"	0.0400		89.5	50-150			

Matrix Spike (BGB0673-MS2)

Source: 2302424-05

Prepared: 02/21/23 Analyzed: 02/22/23

Benzene	0.115	0.0020	mg/kg	0.100	ND	115	70-130			
Toluene	0.120	0.0050	"	0.100	ND	120	70-130			
Ethylbenzene	0.119	0.0050	"	0.100	ND	119	70-130			
m,p-Xylene	0.237	0.010	"	0.200	ND	119	70-130			
o-Xylene	0.113	0.0050	"	0.100	ND	113	70-130			
1,2,4-Trimethylbenzene	0.126	0.0050	"	0.100	ND	126	70-130			
1,3,5-Trimethylbenzene	0.125	0.0050	"	0.100	ND	125	70-130			
Naphthalene	0.0852	0.0038	"	0.100	ND	85.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0367		"	0.0400		91.6	50-150			
Surrogate: Toluene-d8	0.0411		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0406		"	0.0400		102	50-150			

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/27/23 12:35

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 BGB0673 - EPA 5030 Soil MS

Matrix Spike Dup (BGB0673-MSD1)

Source: 2302398-01

Prepared: 02/21/23 Analyzed: 02/22/23

Benzene	0.0936	0.0020	mg/kg	0.100	ND	93.6	70-130	6.35	30	
Toluene	0.0874	0.0050	"	0.100	ND	87.4	70-130	6.85	30	
Ethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130	3.71	30	
m,p-Xylene	0.203	0.010	"	0.200	ND	102	70-130	3.54	30	
o-Xylene	0.0971	0.0050	"	0.100	ND	97.1	70-130	3.59	30	
1,2,4-Trimethylbenzene	0.0978	0.0050	"	0.100	ND	97.8	70-130	3.31	30	
1,3,5-Trimethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130	4.49	30	
Naphthalene	0.0751	0.0038	"	0.100	ND	75.1	70-130	4.28	30	
Surrogate: 1,2-Dichloroethane-d4	0.0299		"	0.0400		74.7	50-150			
Surrogate: Toluene-d8	0.0376		"	0.0400		94.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0368		"	0.0400		92.0	50-150			

Matrix Spike Dup (BGB0673-MSD2)

Source: 2302424-05

Prepared: 02/21/23 Analyzed: 02/22/23

Benzene	0.115	0.0020	mg/kg	0.100	ND	115	70-130	0.105	30	
Toluene	0.120	0.0050	"	0.100	ND	120	70-130	0.324	30	
Ethylbenzene	0.123	0.0050	"	0.100	ND	123	70-130	3.40	30	
m,p-Xylene	0.244	0.010	"	0.200	ND	122	70-130	2.81	30	
o-Xylene	0.113	0.0050	"	0.100	ND	113	70-130	0.0531	30	
1,2,4-Trimethylbenzene	0.126	0.0050	"	0.100	ND	126	70-130	0.143	30	
1,3,5-Trimethylbenzene	0.129	0.0050	"	0.100	ND	129	70-130	2.91	30	
Naphthalene	0.0849	0.0038	"	0.100	ND	84.9	70-130	0.388	30	
Surrogate: 1,2-Dichloroethane-d4	0.0357		"	0.0400		89.2	50-150			
Surrogate: Toluene-d8	0.0415		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0410		"	0.0400		102	50-150			

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/27/23 12:35

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 BGB0674 - EPA 3550A

Blank (BGB0674-BLK1)

Prepared: 02/21/23 Analyzed: 02/22/23

C10-C28 (DRO)	12.7	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	11.1		"	12.5		88.8	30-150			

Blank (BGB0674-BLK2)

Prepared: 02/21/23 Analyzed: 02/22/23

C10-C28 (DRO)	16.4	50	mg/kg							
C28-C36 (ORO)	15.8	50	"							
Surrogate: o-Terphenyl	13.5		"	12.5		108	30-150			

LCS (BGB0674-BS1)

Prepared: 02/21/23 Analyzed: 02/22/23

C10-C28 (DRO)	456	50	mg/kg	500		91.3	70-130			
Surrogate: o-Terphenyl	11.3		"	12.5		90.3	30-150			

LCS (BGB0674-BS2)

Prepared: 02/21/23 Analyzed: 02/22/23

C10-C28 (DRO)	462	50	mg/kg	500		92.3	70-130			
Surrogate: o-Terphenyl	13.8		"	12.5		111	30-150			

Matrix Spike (BGB0674-MS1)

Source: 2302398-01

Prepared: 02/21/23 Analyzed: 02/22/23

C10-C28 (DRO)	413	50	mg/kg	500	10.6	80.5	70-130			
Surrogate: o-Terphenyl	11.2		"	12.5		89.8	30-150			

Matrix Spike (BGB0674-MS2)

Source: 2302424-05

Prepared: 02/21/23 Analyzed: 02/22/23

C10-C28 (DRO)	484	50	mg/kg	500	15.0	93.8	70-130			
Surrogate: o-Terphenyl	15.5		"	12.5		124	30-150			

Matrix Spike Dup (BGB0674-MSD1)

Source: 2302398-01

Prepared: 02/21/23 Analyzed: 02/22/23

C10-C28 (DRO)	425	50	mg/kg	500	10.6	82.9	70-130	2.80	20	
Surrogate: o-Terphenyl	11.6		"	12.5		92.6	30-150			

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/27/23 12:35

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGB0674 - EPA 3550A

Matrix Spike Dup (BGB0674-MSD2)

Source: 2302424-05

Prepared: 02/21/23 Analyzed: 02/22/23

C10-C28 (DRO)	433	50	mg/kg	500	15.0	83.7	70-130	11.0	20	
Surrogate: o-Terphenyl	13.6		"	12.5		109	30-150			

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/27/23 12:35

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGB0684 - EPA 5030 Soil MS

Blank (BGB0684-BLK1)

Prepared & Analyzed: 02/22/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0316		"	0.0333		94.9	40-150			
Surrogate: Fluoranthene-d10	0.0322		"	0.0333		96.7	40-150			

LCS (BGB0684-BS1)

Prepared & Analyzed: 02/22/23

Acenaphthene	0.0294	0.00500	mg/kg	0.0333		88.1	31-137			
Anthracene	0.0303	0.00500	"	0.0333		90.8	30-120			
Benzo (a) anthracene	0.0320	0.00500	"	0.0333		96.0	30-120			
Benzo (a) pyrene	0.0324	0.00500	"	0.0333		97.3	30-120			
Benzo (b) fluoranthene	0.0331	0.00500	"	0.0333		99.2	30-120			
Benzo (k) fluoranthene	0.0335	0.00500	"	0.0333		101	30-120			
Chrysene	0.0322	0.00500	"	0.0333		96.6	30-120			
Dibenz (a,h) anthracene	0.0266	0.00500	"	0.0333		79.7	30-120			
Fluoranthene	0.0308	0.00500	"	0.0333		92.3	30-120			
Fluorene	0.0289	0.00500	"	0.0333		86.6	30-120			
Indeno (1,2,3-cd) pyrene	0.0305	0.00500	"	0.0333		91.6	30-120			
Pyrene	0.0347	0.00500	"	0.0333		104	35-142			
1-Methylnaphthalene	0.0333	0.00500	"	0.0333		99.8	35-142			
2-Methylnaphthalene	0.0274	0.00500	"	0.0333		82.3	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0298		"	0.0333		89.5	40-150			
Surrogate: Fluoranthene-d10	0.0313		"	0.0333		93.8	40-150			

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: Cox PC GK26-99HZ

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
02/27/23 12:35

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGB0684 - EPA 5030 Soil MS

Matrix Spike (BGB0684-MS1)

Source: 2302351-29

Prepared & Analyzed: 02/22/23

Acenaphthene	0.0220	0.00500	mg/kg	0.0333	ND	66.0	31-137				
Anthracene	0.0218	0.00500	"	0.0333	ND	65.3	30-120				
Benzo (a) anthracene	0.0247	0.00500	"	0.0333	ND	74.1	30-120				
Benzo (a) pyrene	0.0244	0.00500	"	0.0333	ND	73.2	30-120				
Benzo (b) fluoranthene	0.0256	0.00500	"	0.0333	ND	76.9	30-120				
Benzo (k) fluoranthene	0.0247	0.00500	"	0.0333	ND	74.1	30-120				
Chrysene	0.0233	0.00500	"	0.0333	ND	69.9	30-120				
Dibenz (a,h) anthracene	0.0191	0.00500	"	0.0333	ND	57.3	30-120				
Fluoranthene	0.0215	0.00500	"	0.0333	ND	64.6	30-120				
Fluorene	0.0211	0.00500	"	0.0333	ND	63.4	30-120				
Indeno (1,2,3-cd) pyrene	0.0221	0.00500	"	0.0333	ND	66.4	30-120				
Pyrene	0.0261	0.00500	"	0.0333	ND	78.3	35-142				
1-Methylnaphthalene	0.0251	0.00500	"	0.0333	ND	75.4	15-130				
2-Methylnaphthalene	0.0209	0.00500	"	0.0333	ND	62.8	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0233		"	0.0333		70.0	40-150				
Surrogate: Fluoranthene-d10	0.0213		"	0.0333		63.8	40-150				

Matrix Spike Dup (BGB0684-MSD1)

Source: 2302351-29

Prepared & Analyzed: 02/22/23

Acenaphthene	0.0219	0.00500	mg/kg	0.0333	ND	65.6	31-137	0.482	30		
Anthracene	0.0232	0.00500	"	0.0333	ND	69.7	30-120	6.56	30		
Benzo (a) anthracene	0.0256	0.00500	"	0.0333	ND	76.9	30-120	3.67	30		
Benzo (a) pyrene	0.0247	0.00500	"	0.0333	ND	74.1	30-120	1.22	30		
Benzo (b) fluoranthene	0.0266	0.00500	"	0.0333	ND	79.9	30-120	3.86	30		
Benzo (k) fluoranthene	0.0259	0.00500	"	0.0333	ND	77.6	30-120	4.61	30		
Chrysene	0.0241	0.00500	"	0.0333	ND	72.3	30-120	3.43	30		
Dibenz (a,h) anthracene	0.0192	0.00500	"	0.0333	ND	57.7	30-120	0.563	30		
Fluoranthene	0.0233	0.00500	"	0.0333	ND	69.9	30-120	7.84	30		
Fluorene	0.0216	0.00500	"	0.0333	ND	64.9	30-120	2.48	30		
Indeno (1,2,3-cd) pyrene	0.0224	0.00500	"	0.0333	ND	67.3	30-120	1.42	30		
Pyrene	0.0273	0.00500	"	0.0333	ND	81.8	35-142	4.42	30		
1-Methylnaphthalene	0.0227	0.00500	"	0.0333	ND	68.1	15-130	10.2	50		
2-Methylnaphthalene	0.0224	0.00500	"	0.0333	ND	67.2	15-130	6.78	50		
Surrogate: 2-Methylnaphthalene-d10	0.0252		"	0.0333		75.6	40-150				
Surrogate: Fluoranthene-d10	0.0239		"	0.0333		71.6	40-150				

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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/27/23 12:35

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

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

Batch BGB0675 - EPA 3050B

Blank (BGB0675-BLK1)

Prepared: 02/21/23 Analyzed: 02/23/23

Boron ND 0.0100 mg/L

LCS (BGB0675-BS1)

Prepared: 02/21/23 Analyzed: 02/23/23

Boron 4.43 0.0100 mg/L 5.00 88.6 80-120

Duplicate (BGB0675-DUP1)

Source: 2302399-01

Prepared: 02/21/23 Analyzed: 02/23/23

Boron 0.344 0.0100 mg/L 0.451 27.0 20 QR-03

Matrix Spike (BGB0675-MS1)

Source: 2302399-01

Prepared: 02/21/23 Analyzed: 02/23/23

Boron 4.83 0.0100 mg/L 5.00 0.451 87.5 75-125

Matrix Spike Dup (BGB0675-MSD1)

Source: 2302399-01

Prepared: 02/21/23 Analyzed: 02/23/23

Boron 4.38 0.0100 mg/L 5.00 0.451 78.6 75-125 9.67 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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/27/23 12:35

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

Summit Scientific

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

Batch BGB0677 - General Preparation

Blank (BGB0677-BLK1)

Prepared: 02/21/23 Analyzed: 02/23/23

Calcium	0.0289	0.0500	mg/L wet
Magnesium	0.00313	0.0500	"
Sodium	ND	0.0500	"

LCS (BGB0677-BS1)

Prepared: 02/21/23 Analyzed: 02/23/23

Calcium	5.62	0.0500	mg/L wet	5.00	112	70-130
Magnesium	5.25	0.0500	"	5.00	105	70-130
Sodium	4.98	0.0500	"	5.00	99.7	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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/27/23 12:35

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

Summit Scientific

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

Batch BGB0698 - General Preparation

Duplicate (BGB0698-DUP1)			Source: 2302365-01			Prepared & Analyzed: 02/22/23					
% Solids	82.2		%			81.4			0.959	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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/27/23 12:35

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 BGB0701 - General Preparation

Blank (BGB0701-BLK1)

Prepared & Analyzed: 02/22/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGB0701-BS1)

Prepared & Analyzed: 02/22/23

Specific Conductance (EC) 0.148 0.0100 mmhos/cm 0.150 98.9 95-105

Duplicate (BGB0701-DUP1)

Source: 2302399-01

Prepared & Analyzed: 02/22/23

Specific Conductance (EC) 0.619 0.0100 mmhos/cm 0.629 1.52 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: Cox PC GK26-99HZ

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
02/27/23 12:35

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

Summit Scientific

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

Batch BGB0702 - General Preparation

LCS (BGB0702-BS1)

Prepared & Analyzed: 02/22/23

pH	9.20	pH Units	9.18	100	95-105
----	------	----------	------	-----	--------

Duplicate (BGB0702-DUP1)

Source: 2302399-01

Prepared & Analyzed: 02/22/23

pH	9.02	pH Units	8.83	2.13	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: Cox PC GK26-99HZ

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
02/27/23 12:35

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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