



## **FIGURES**

**Figure 1: Topographic Site Location Map**

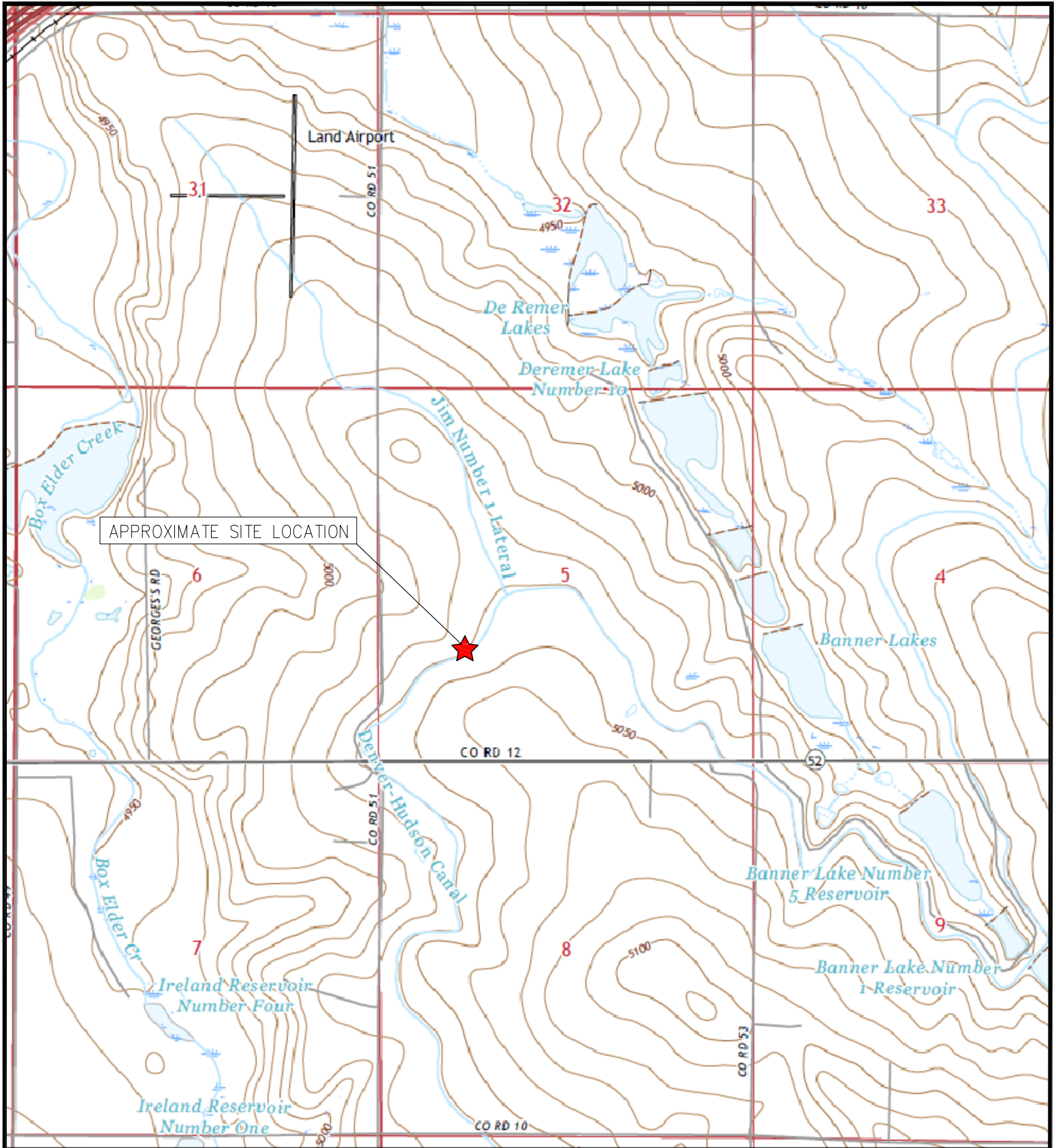
**Figure 2: Aerial Site Location Map**

**Figure 3: Confirmation Soil Analytical Map (10/19/23)**

**Figure 4: Confirmation Soil Analytical Map (11/03/23)**

**Figure 5: Confirmation Soil Analytical Map (12/13/23)**

**Figure 6: Background Sample Location Map**



TOPOGRAPHIC SITE LOCATION MAP  
 GRINDE 1-64-5-0108C  
 SURFACE RELEASE  
 40.077778 / -104.579931  
 NW¼ SW¼ SEC.5 T1N R64W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 46201  
 REMEDIATION # 32259



**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, LLC

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SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,  
 KEENESBURG, CO QUADRANGLE 2022

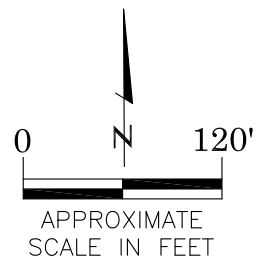
FIGURE 1





# LEGEND

- GRINDE 1-64-5-0108C FACILITY BOUNDARIES
- APPROXIMATE RELEASE LOCATION



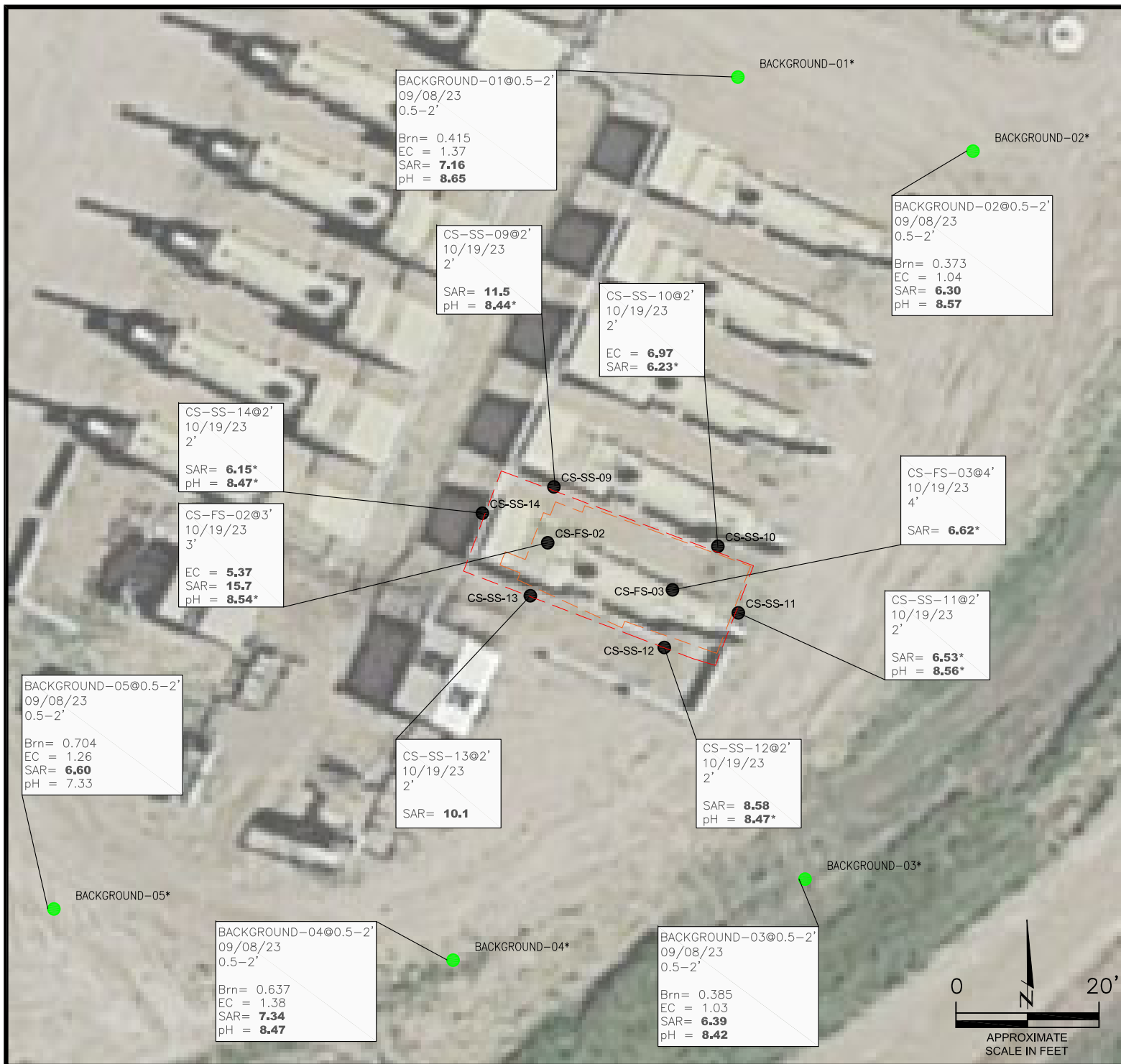
AERIAL SITE LOCATION MAP  
 GRINDE 1-64-5-0108C  
 SURFACE RELEASE  
 40.077778 / -104.579931  
 NW¼ SW¼ SEC.5 T1N R64W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 462021  
 REMEDIATION # 32259

DATE: 01/15/24

FIG. NO. 2  
 DRAWN BY: TC



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#### LEGEND

- INITIAL RELEASE AREA/EXCAVATION EXTENTS
- OVER-EXCAVATION EXTENTS (AS OF 10.19.23)
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- BACKGROUND SAMPLES\*

\*BACKGROUND SAMPLES COLLECTED OFF-PAD. LOCATIONS PRESENTED ARE FOR ANALYTICAL COMPARISON, ONLY.

#### PARAMETERS

SAMPLE LOCATION  
DATE  
DEPTH (FEET)  
B = BENZENE (mg/kg)  
T = TOLUENE (mg/kg)  
E = ETHYLBENZENE (mg/kg)  
X = TOTAL XYLENES (mg/kg)  
N = NAPHTHALENE (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)  
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)  
Brn = BORON (mg/L)  
EC = SPECIFIC CONDUCTANCE (mmhos/cm)  
SAR = SODIUM ADSORPTION RATIO  
pH = pH (pH UNITS)

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

(BRL) = ALL CONCENTRATIONS/VALUE 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:  
CONCENTRATIONS/VALUES EXCEEDING REGULATORY LIMITS, ONLY, DISPLAYED.

VALUES PRESENTED IN **BOLD** EXCEED EC/MC TABLE 915-1 REGULATORY LIMITS. VALUES PRESENTED WITH ASTERISK (\*) ARE LESS THAN HIGHEST BACKGROUNDS OBSERVED

EC/MC = ENERGY & CARBON MANAGEMENT COMMISSION

#### CONFIRMATION SOIL ANALYTICAL MAP

(10/19/23)  
GRINDE 1-64-5-0108C  
SURFACE RELEASE  
40.077778 / -104.579931  
NW¼ SW¼ SEC.5 T1N R64W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 462021  
REMEDIATION # 32259

DATE:  
01/15/24

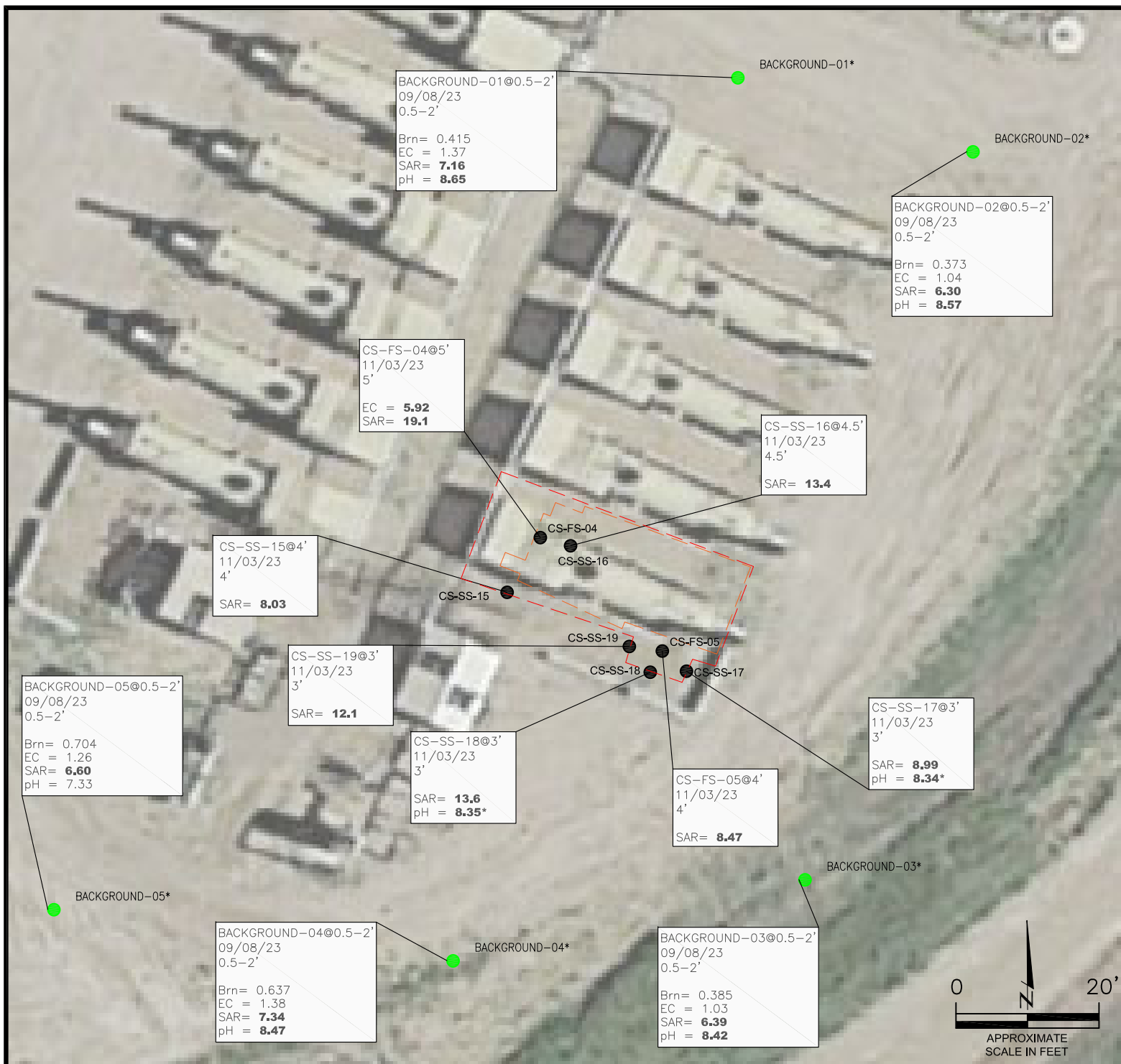
DRAWN BY:  
AMN

FIG.  
NO. 3



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#### LEGEND

- INITIAL RELEASE AREA/EXCAVATION EXTENTS
- OVER-EXCAVATION EXTENTS (AS OF 11.03.23)
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- BACKGROUND SAMPLES\*

\*BACKGROUND SAMPLES COLLECTED OFF-PAD. LOCATIONS PRESENTED ARE FOR ANALYTICAL COMPARISON, ONLY.

#### PARAMETERS

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DATE  
DEPTH (FEET)  
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E = ETHYLBENZENE (mg/kg)  
X = TOTAL XYLENES (mg/kg)  
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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)  
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)  
Brn= BORON (mg/L)  
EC = SPECIFIC CONDUCTANCE (mmhos/cm)  
SAR= SODIUM ADSORPTION RATIO  
pH = pH (pH UNITS)

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

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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:  
CONCENTRATIONS/VALUES EXCEEDING REGULATORY LIMITS, ONLY, DISPLAYED.

VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS. VALUES PRESENTED WITH ASTERISK (\*) ARE LESS THAN HIGHEST BACKGROUNDS OBSERVED

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

#### CONFIRMATION SOIL ANALYTICAL MAP

(11/03/23)  
GRINDE 1-64-5-0108C  
SURFACE RELEASE  
40.077778 / -104.579931  
NW¼ SW¼ SEC.5 T1N R64W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 462021  
REMEDIATION # 32259

DATE:  
01/15/24

DRAWN BY:  
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FIG.  
NO. 4



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#### LEGEND

- INITIAL RELEASE AREA/EXCAVATION EXTENTS
- OVER-EXCAVATION EXTENTS (AS OF 12.13.23)
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- BACKGROUND SAMPLES\*

\*BACKGROUND SAMPLES COLLECTED OFF-PAD. LOCATIONS PRESENTED ARE FOR ANALYTICAL COMPARISON, ONLY.

#### PARAMETERS

##### SAMPLE LOCATION

DATE

DEPTH (FEET)

B = BENZENE (mg/kg)

T = TOLUENE (mg/kg)

E = ETHYLBENZENE (mg/kg)

X = TOTAL XYLENES (mg/kg)

N = NAPHTHALENE (mg/kg)

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1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)

1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

Brn= BORON (mg/L)

EC = SPECIFIC CONDUCTANCE (mmhos/cm)

SAR= SODIUM ADSORPTION RATIO

pH = pH (pH UNITS)

mg/kg = MILLIGRAMS PER KILOGRAM

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#### NOTES:

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VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS. VALUES PRESENTED WITH ASTERISK (\*) ARE LESS THAN HIGHEST BACKGROUNDS OBSERVED

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#### CONFIRMATION SOIL ANALYTICAL MAP

(12/13/23)

GRINDE 1-64-5-0108C

SURFACE RELEASE

40.077778 / -104.579931

NW¼ SW¼ SEC.5 T1N R64W 6PM

WELD COUNTY, COLORADO

LOCATION ID 462021

REMEDIATION # 32259

DATE:  
01/15/24

DRAWN BY:  
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FIG.  
NO. 5



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**LEGEND**

--- INITIAL RELEASE AREA/EXCAVATION EXTENTS

● APPROXIMATE BACKGROUND SAMPLE LOCATIONS (5)

**BACKGROUND SAMPLE LOCATION MAP**

GRINDE 1-64-5-0108C  
SURFACE RELEASE  
40.077778 / -104.579931  
NW¼ SW¼ SEC.5 T1N R64W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 462021  
REMEDATION # 32259

DATE:  
01/15/24

DRAWN BY:  
AMN

FIG.  
NO. 7



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## **TABLES**

**Table 1: Photoionization Detector Reading Summary**

**Table 2: Soil Analytical Results Summary**

**Table 3: Polycyclic Aromatics Hydrocarbons Analytical Results Summary**

**Table 4: Residual Impact Analytical Summary**

TABLE 1  
 PHOTOIONIZATION DETECTOR READING SUMMARY  
 GRINDE 1-64-5-0108C  
 SURFACE RELEASE  
 40.077778 / -104.579931  
 NW¼ SW¼ SEC.5 T1N R64W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 462021  
 REMEDIATION # 32259

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)	Notes:
SS-01 @ 1' (40.077744 / -104.579848)	09/14/23	1	34.8	Y	Initial Assessment Samples
SS-02 @ 1' (40.077730 / -104.579865)	09/14/23	1	36.5	Y	
SS-03 @ 0.5' (40.077736 / -104.579898)	09/14/23	0.5	37.4	N	
SS-04 @ 0.5' (40.077750 / -104.579934)	09/14/23	0.5	40.2	N	
SS-05 @ 0.5' (40.077756 / -104.579938)	09/14/23	0.5	43.5	N	
SS-06 @ 0.5' (40.077758 / -104.579932)	09/14/23	0.5	45.8	N	
SS-07 @ 1' (40.077764 / -104.579924)	09/14/23	1	46.8	Y	
SS-08 @ 1' (40.077772 / -104.579913)	09/14/23	1	19.1	Y	
SS-09 @ 1' (40.077774 / -104.579907)	09/14/23	1	45.5	Y	
SS-10 @ 1' (40.077775 / -104.579902)	09/14/23	1	46.7	Y	
SS-11 @ 0.5' (40.077775 / -104.579898)	09/14/23	0.5	38.8	N	
SS-12 @ 0.5' (40.077775 / -104.579887)	09/14/23	0.5	36.7	N	
SS-13 @ 1' (40.077766 / -104.579866)	09/14/23	1	29.8	Y	
SS-14 @ 0.5' (40.077747 / -104.579929)	09/14/23	0.5	25.6	N	
SS-15 @ 0.5' (40.077730 / -104.579875)	09/14/23	0.5	10.3	N	
FS-01 @ 1' (40.077746 / -104.579904)	09/14/23	1	37.9	Y	
FS-02 @ 1' (40.077772 / -104.579888)	09/14/23	1	36.9	Y	
FS-03 @ 2' (40.077753 / -104.579874)	09/14/23	2	14.6	Y	

TABLE 1  
 PHOTOIONIZATION DETECTOR READING SUMMARY  
 GRINDE 1-64-5-0108C  
 SURFACE RELEASE  
 40.077778 / -104.579931  
 NW¼ SW¼ SEC.5 T1N R64W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 462021  
 REMEDIATION # 32259

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)	Notes:
Background-01 @ 0.5-2' (40.078135 / -104.580239)	09/14/23	0.5-2	5.6	Y	Background Comparison Samples
Background-02 @ 0.5-2' (40.077958 / -104.580378)	09/14/23	0.5-2	4.7	Y	
Background-03 @ 0.5-2' (40.077462 / -104.579825)	09/14/23	0.5-2	4.3	Y	
Background-04 @ 0.5-2' (40.077625 / -104.579550)	09/14/23	0.5-2	5.1	Y	
Background-05 @ 0.5-2' (40.077896 / -104.579474)	09/14/23	0.5-2	3.8	Y	
CS-SS-01 @ 2' (40.077756 / -104.579933)	09/29/23	2	1.7	Y	Confirmation Samples Collected Following Over- Excavation of SS-07, SS-08, SS-09, and SS- 10
CS-SS-02 @ 2' (40.077751 / -104.579945)	09/29/23	2	1.1	Y	
CS-SS-03 @ 2' (40.077752 / -104.579949)	09/29/23	2	0.7	N	
CS-SS-04 @ 2' (40.077772 / -104.579942)	09/29/23	2	1.1	Y	
CS-SS-05 @ 2' (40.077786 / -104.579916)	09/29/23	2	0.9	Y	
CS-SS-06 @ 2' (40.077769 / -104.579906)	09/29/23	2	0.8	Y	
CS-SS-07 @ 2' (40.077765 / -104.579916)	09/29/23	2	0.7	Y	
CS-SS-08 @ 2' (40.077759 / -104.579925)	09/29/23	2	0.7	Y	
CS-FS-01 @ 3' (40.077772 / -104.579924)	09/29/23	3	1.8	Y	



TABLE 1  
 PHOTOIONIZATION DETECTOR READING SUMMARY  
 GRINDE 1-64-5-0108C  
 SURFACE RELEASE  
 40.077778 / -104.579931  
 NW¼ SW¼ SEC.5 T1N R64W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 462021  
 REMEDIATION # 32259

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)	Notes:
CS-SS-09 @ 2' (40.077766 / -104.579993)	10/19/23	2	0.6	Y	Confirmation Samples Collected Following Over- Excavation of SS-02, SS-13, FS-01, FS-02, CS-SS-04, and CS-SS 06
CS-SS-10 @ 2' (40.077739 / -104.579904)	10/19/23	2	1.2	Y	
CS-SS-11 @ 2' (40.077731 / -104.579866)	10/19/23	2	0.7	Y	
CS-SS-12 @ 2' (40.077715 / -104.579909)	10/19/23	2	0.8	Y	
CS-SS-13 @ 2' (40.077725 / -104.579942)	10/19/23	2	1.5	Y	
CS-SS-14 @ 2' (40.077739 / -104.579960)	10/19/23	2	0.8	Y	
CS-FS-02 @ 3' (40.077736 / -104.579921)	10/19/23	3	0.2	Y	
CS-FS-03 @ 4' (40.077721 / -104.579887)	10/19/23	4	1.1	Y	
CS-SS-15 @ 4' (40.077742 / -104.579935)	11/03/23	4	4.6	Y	Confirmation Samples Collected Following Over- Excavation CS-FS-02 and CS-SS-12
CS-SS-16 @ 4.5' (40.077762 / -104.579905)	11/03/23	4.5	5.1	Y	
CS-SS-17 @ 3' (40.077711 / -104.579848)	11/03/23	3	6.6	Y	
CS-SS-18 @ 3' (40.077708 / -104.579863)	11/03/23	3	6	Y	
CS-SS-19 @ 3' (40.077718 / -104.579875)	11/03/23	3	4	Y	
CS-FS-04 @ 5' (40.077745 / -104.579934)	11/03/23	5	3.6	Y	
CS-FS-05 @ 4' (40.077719 / -104.579858)	11/03/23	4	2.5	Y	

TABLE 1  
 PHOTOIONIZATION DETECTOR READING SUMMARY  
 GRINDE 1-64-5-0108C  
 SURFACE RELEASE  
 40.077778 / -104.579931  
 NW¼ SW¼ SEC.5 T1N R64W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 462021  
 REMEDIATION # 32259

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)	Notes:
CS-SS-20 @ 4' (40.077704 / -104.579849)	12/13/23	4	1.3	Y	Confirmation Samples Collected Following Over- Excavation of CS-SS- 15 through CS-SS- 19, CS-FS-04, and CS FS-05
CS-SS-21 @ 5' (40.077716 / -104.579891)	12/13/23	5	1.8	Y	
CS-SS-22 @ 5' (40.077723 / -104.579902)	12/13/23	5	1.9	Y	
CS-SS-23 @ 5' (40.077735 / -104.579931)	12/13/23	5	1.3	Y	
CS-SS-24 @ 4' (40.077705 / -104.579838)	12/13/23	4	0.8	Y	
CS-FS-06 @ 5' (40.077732 / -104.579859)	12/13/23	5	1.5	Y	
CS-FS-07 @ 6' (40.077756 / -104.579913)	12/13/23	6	2.3	Y	
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector					

TABLE 2  
SOIL ANALYTICAL RESULTS SUMMARY  
GRINDE 1-64-5-0108C  
SURFACE RELEASE  
40.077778 / -104.579931  
NW¼ SW¼ SEC.5 T1N R64W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 462021  
REMEDATION # 32259

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-RRO (mg/kg)	1,2,4- Trimethylbenzene (mg/kg)	1,3,5- Trimethylbenzene (mg/kg)	Boron (mg/L)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
ECMC Table 915-1 Residential Screening Levels				1.2	490	5.8	58	500			30	27	2	<4	6-8.3	<6
Local Clean-Up Levels				--	--	--	--	--			--	--	--	--	8.65	7.34
Initial Assessment Samples																
SS-01 @ 1' (40.077744 / -104.579848)	09/14/23	1	34.8	<0.0020	<0.0050	<0.0050	<0.010	0.21	8.5	12	<0.0050	<0.0050	0.316	0.980	8.29	4.20
SS-02 @ 1' (40.077730 / -104.579865)	09/14/23	1	36.5	<0.0020	<0.0050	<0.0050	<0.010	0.22	11	10	<0.0050	<0.0050	0.199	7.95	7.64	7.88
SS-07 @ 1' (40.077764 / -104.579924)	09/14/23	1	46.8	<0.0020	<0.0050	<0.0050	<0.010	0.22	8.9	10	<0.0050	<0.0050	0.435	11.0	7.57	7.78
SS-08 @ 1' (40.077772 / -104.579913)	09/14/23	1	19.1	<0.0020	<0.0050	<0.0050	<0.010	0.22	10	9.0	<0.0050	<0.0050	2.50	31.1	7.54	30.7
SS-09 @ 1' (40.077774 / -104.579907)	09/14/23	1	45.5	<0.0020	<0.0050	<0.0050	<0.010	0.22	8.6	9.4	<0.0050	<0.0050	2.47	22.8	7.67	34.7
SS-10 @ 1' (40.077775 / -104.579902)	09/14/23	1	46.7	<0.0020	<0.0050	<0.0050	<0.010	0.22	9.0	9.0	<0.0050	<0.0050	1.22	14.8	7.83	10.5
SS-13 @ 1' (40.077766 / -104.579866)	09/14/23	1	29.8	<0.0020	<0.0050	<0.0050	<0.010	0.21	9.6	8.4	<0.0050	<0.0050	0.490	6.57	7.60	10.0
FS-01 @ 1' (40.077746 / -104.579904)	09/14/23	1	37.9	<0.0020	<0.0050	<0.0050	<0.010	0.23	9.2	8.2	<0.0050	<0.0050	0.583	8.84	7.79	9.08
FS-02 @ 1' (40.077772 / -104.579888)	09/14/23	1	36.9	<0.0020	<0.0050	<0.0050	<0.010	0.22	9.0	8.9	<0.0050	<0.0050	0.720	9.78	8.75	15.9
FS-03 @ 2' (40.077753 / -104.579874)	09/14/23	2	14.6	<0.0020	<0.0050	<0.0050	<0.010	0.20	120	120	<0.0050	<0.0050	0.396	0.584	8.44	3.40
Background Comparison Samples																
Background-01 @ 0.5-2' (40.078135 / -104.580239)	09/14/23	0.5-2	5.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.415	1.37	8.65	7.16
Background-02 @ 0.5-2' (40.077958 / -104.580378)	09/14/23	0.5-2	4.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.373	1.04	8.57	6.30
Background-03 @ 0.5-2' (40.077462 / -104.579825)	09/14/23	0.5-2	4.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.385	1.03	8.42	6.39
Background-04 @ 0.5-2' (40.077625 / -104.579550)	09/14/23	0.5-2	5.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.637	1.38	8.47	7.34
Background-05 @ 0.5-2' (40.077896 / -104.579474)	09/14/23	0.5-2	3.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.704	1.26	7.33	6.60
Confirmation Samples Collected Following Over-Excavation of SS-07, SS-08, SS-09, and SS-10																
CS-SS-01 @ 2' (40.077756 / -104.579933)	09/29/23	2	1.7	<0.0020	<0.0050	<0.0050	<0.010	0.025	<50	43	<0.0050	<0.0050	0.587	1.84	7.85	0.112
CS-SS-02 @ 2' (40.077751 / -104.579945)	09/29/23	2	1.1	<0.0020	<0.0050	<0.0050	<0.010	0.021	38	27	<0.0050	<0.0050	0.163	2.72	8.15	0.0544
CS-SS-04 @ 2' (40.077772 / -104.579942)	09/29/23	2	1.1	<0.0020	<0.0050	<0.0050	<0.010	0.024	<50	26	<0.0050	<0.0050	0.310	0.488	8.86	0.0181
CS-SS-05 @ 2' (40.077786 / -104.579916)	09/29/23	2	0.9	<0.0020	<0.0050	<0.0050	<0.010	0.020	<50	24	<0.0050	<0.0050	0.322	2.00	8.11	0.0603
CS-SS-06 @ 2' (40.077769 / -104.579906)	09/29/23	2	0.8	<0.0020	<0.0050	<0.0050	<0.010	0.027	<50	22	<0.0050	<0.0050	0.525	1.33	8.70	0.0248
CS-SS-07 @ 2' (40.077765 / -104.579916)	09/29/23	2	0.7	<0.0020	<0.0050	<0.0050	<0.010	0.011	<50	19	<0.0050	<0.0050	0.745	2.70	8.58	0.0393
CS-SS-08 @ 2' (40.077759 / -104.579925)	09/29/23	2	0.7	<0.0020	<0.0050	<0.0050	<0.010	0.013	<50	11	<0.0050	<0.0050	0.379	1.02	8.47	0.0263
CS-FS-01 @ 3' (40.077772 / -104.579924)	09/29/23	3	1.8	<0.0020	<0.0050	<0.0050	<0.010	0.028	<50	13	<0.0050	<0.0050	0.537	1.62	8.63	0.0555



TABLE 2  
SOIL ANALYTICAL RESULTS SUMMARY  
GRINDE 1-64-5-0108C  
SURFACE RELEASE  
40.077778 / -104.579931  
NW¼ SW¼ SEC.5 T1N R64W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 462021  
REMEDATION # 32259

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-RRO (mg/kg)	1,2,4- Trimethylbenzene (mg/kg)	1,3,5- Trimethylbenzene (mg/kg)	Boron (mg/L)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
ECMC Table 915-1 Residential Screening Levels				1.2	490	5.8	58	500			30	27	2	<4	6-8.3	<6
Local Clean-Up Levels				--	--	--	--	--			--	--	--	--	8.65	7.34
Confirmation Samples Collected Following Over-Excavation of SS-02, SS-13, FS-01, FS-02, CS-SS-04, and CS-SS-06																
CS-SS-09 @ 2' (40.077766 / -104.579993)	10/19/23	2	0.6	<0.0020	<0.0050	<0.0050	<0.010	0.023	12	4.8	<0.0050	<0.0050	0.401	3.57	8.44	11.5
CS-SS-10 @ 2' (40.077739 / -104.579904)	10/19/23	2	1.2	<0.0020	<0.0050	<0.0050	<0.010	0.031	11	5.1	<0.0050	<0.0050	0.281	6.97	7.69	6.23
CS-SS-11 @ 2' (40.077731 / -104.579866)	10/19/23	2	0.7	<0.0020	<0.0050	<0.0050	<0.010	0.035	15	5.7	<0.0050	<0.0050	0.234	1.14	8.56	6.53
CS-SS-12 @ 2' (40.077715 / -104.579909)	10/19/23	2	0.8	<0.0020	<0.0050	<0.0050	<0.010	0.025	9.2	6.0	<0.0050	<0.0050	0.399	2.08	8.47	8.58
CS-SS-13 @ 2' (40.077725 / -104.579942)	10/19/23	2	1.5	<0.0020	<0.0050	<0.0050	<0.010	0.032	13	5.4	<0.0050	<0.0050	0.46	3.18	8.30	10.1
CS-SS-14 @ 2' (40.077739 / -104.579960)	10/19/23	2	0.8	<0.0020	<0.0050	<0.0050	<0.010	0.029	16	4.7	<0.0050	<0.0050	0.206	1.18	8.47	6.15
CS-FS-02 @ 3' (40.077736 / -104.579921)	10/19/23	3	0.2	<0.0020	<0.0050	<0.0050	<0.010	0.028	16	5.3	<0.0050	<0.0050	0.332	5.37	8.54	15.7
CS-FS-03 @ 4' (40.077721 / -104.579887)	10/19/23	4	1.1	<0.0020	<0.0050	<0.0050	<0.010	0.037	15	5.8	<0.0050	<0.0050	0.144	1.86	8.24	6.62
Confirmation Samples Collected Following Over-Excavation CS-FS-02 and CS-SS-12																
CS-SS-15 @ 4' (40.077742 / -104.579935)	11/03/23	4	4.6	<0.0020	<0.0050	<0.0050	<0.010	0.083	20	6.6	<0.0050	<0.0050	0.391	2.43	8.03	8.03
CS-SS-16 @ 4.5' (40.077762 / -104.579905)	11/03/23	4.5	5.1	<0.0020	<0.0050	<0.0050	<0.010	0.084	19	6.2	<0.0050	<0.0050	0.364	3.06	8.17	13.4
CS-SS-17 @ 3' (40.077711 / -104.579848)	11/03/23	3	6.6	<0.0020	<0.0050	<0.0050	<0.010	0.084	17	6.2	<0.0050	<0.0050	0.387	1.98	8.34	8.99
CS-SS-18 @ 3' (40.077708 / -104.579863)	11/03/23	3	6	<0.0020	<0.0050	<0.0050	<0.010	0.084	17	6.6	<0.0050	<0.0050	0.437	2.14	8.35	13.6
CS-SS-19 @ 3' (40.077718 / -104.579875)	11/03/23	3	4	<0.0020	<0.0050	<0.0050	<0.010	0.083	13	8.2	<0.0050	<0.0050	0.527	2.86	8.24	12.1
CS-FS-04 @ 5' (40.077745 / -104.579934)	11/03/23	5	3.6	<0.0020	<0.0050	<0.0050	<0.010	0.083	17	12	<0.0050	<0.0050	0.450	5.92	8.25	19.1
CS-FS-05 @ 4' (40.077719 / -104.579858)	11/03/23	4	2.5	<0.0020	<0.0050	<0.0050	<0.010	0.083	21	8.2	<0.0050	<0.0050	0.274	1.74	8.26	8.47
Confirmation Samples Collected Following Over-Excavation of CS-SS-15 through CS-SS-19, CS-FS-04, and CS-FS-05																
CS-SS-20 @ 4' (40.077704 / -104.579849)	12/13/23	4	1.3	<0.0020	<0.0050	<0.0050	<0.010	<0.50	22	14	<0.0050	<0.0050	0.370	2.26	8.24	9.97
CS-SS-21 @ 5' (40.077716 / -104.579891)	12/13/23	5	1.8	<0.0020	<0.0050	<0.0050	<0.010	<0.50	26	15	<0.0050	<0.0050	0.515	5.27	8.15	19.6
CS-SS-22 @ 5' (40.077723 / -104.579902)	12/13/23	5	1.9	<0.0020	<0.0050	<0.0050	<0.010	<0.50	22	16	<0.0050	<0.0050	0.652	5.18	8.21	20.7
CS-SS-23 @ 5' (40.077735 / -104.579931)	12/13/23	5	1.3	<0.0020	<0.0050	<0.0050	<0.010	<0.50	13	17	<0.0050	<0.0050	0.375	5.17	8.17	17.9
CS-SS-24 @ 4' (40.077705 / -104.579838)	12/13/23	4	0.8	<0.0020	<0.0050	<0.0050	<0.010	<0.50	9.0	15	<0.0050	<0.0050	0.239	1.57	8.21	7.97
CS-FS-06 @ 5' (40.077732 / -104.579859)	12/13/23	5	1.5	<0.0020	<0.0050	<0.0050	<0.010	<0.50	13	15	<0.0050	<0.0050	0.476	2.99	8.06	9.50
CS-FS-07 @ 6' (40.077756 / -104.579913)	12/13/23	6	2.3	<0.0020	<0.0050	<0.0050	<0.010	<0.50	15	12	<0.0050	<0.0050	0.425	3.89	8.13	12.4
ECMC = Energy & Carbon Management Commission mg/kg = milligrams per kilogram      TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics      NA - Not Analyzed mmhos/cm = millimhos per centimeter      TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics SAR = Sodium Adsorption Ratio      TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics ppm-v = parts per million by volume PID = Photoionization Detector Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit. Note: Values presented in <b>BOLD</b> contained concentrations exceeding applicable ECMC Table 915-1 Regulatory Limits. Highlighted values exceed 915-1 and "local clean-up levels" established by background comparison, where applicable																

TABLE 3  
PAH ANALYTICAL RESULTS SUMMARY  
GRINDE 1-64-5-0108C  
SURFACE RELEASE  
40.077778 / -104.579931  
NW¼ SW¼ SEC.5 T1N R64W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 462021  
REMEDATION # 32259

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading	1-Methyl- naphthalene (mg/kg)	2-Methyl- naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)- anthracene (mg/kg)	Benzo(a)-pyrene (mg/kg)	Benzo(b)- fluoranthene (mg/kg)	Benzo(k)- fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)- anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(1,2,3- cd)-pyrene (mg/kg)	Naphthalene (mg/kg)	Pyrene (mg/kg)
ECMC Table 915-1 Residential Screening Levels				18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	2	180
<b>Initial Assessment Samples</b>																		
SS-01 @ 1' (40.077744 / -104.579848)	09/14/23	1	34.8	<0.00500	<0.00500	<0.00500	<0.00500	0.0173	0.0125	0.0252	0.00866	0.0290	<0.00500	0.0626	<0.00500	0.0127	<0.0038	0.0451
SS-02 @ 1' (40.077730 / -104.579865)	09/14/23	1	36.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
SS-07 @ 1' (40.077764 / -104.579924)	09/14/23	1	46.8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
SS-08 @ 1' (40.077772 / -104.579913)	09/14/23	1	19.1	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
SS-09 @ 1' (40.077774 / -104.579907)	09/14/23	1	45.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
SS-10 @ 1' (40.077775 / -104.579902)	09/14/23	1	46.7	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
SS-13 @ 1' (40.077766 / -104.579866)	09/14/23	1	29.8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
FS-01 @ 1' (40.077746 / -104.579904)	09/14/23	1	37.9	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
FS-02 @ 1' (40.077772 / -104.579888)	09/14/23	1	36.9	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
FS-03 @ 2' (40.077753 / -104.579874)	09/14/23	2	14.6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
<b>Confirmation Samples Collected Following Over-Excavation of SS-07, SS-08, SS-09, and SS-10</b>																		
CS-SS-01 @ 2' (40.077756 / -104.579933)	09/29/23	2	1.7	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-02 @ 2' (40.077751 / -104.579945)	09/29/23	2	1.1	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-04 @ 2' (40.077772 / -104.579942)	09/29/23	2	1.1	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-05 @ 2' (40.077786 / -104.579916)	09/29/23	2	0.9	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-06 @ 2' (40.077769 / -104.579906)	09/29/23	2	0.8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-07 @ 2' (40.077765 / -104.579916)	09/29/23	2	0.7	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-08 @ 2' (40.077759 / -104.579925)	09/29/23	2	0.7	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-FS-01 @ 3' (40.077772 / -104.579924)	09/29/23	3	1.8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
<b>Confirmation Samples Collected Following Over-Excavation of SS-02, SS-13, FS-01, FS-02, CS-SS-04, and CS-SS-06</b>																		
CS-SS-09 @ 2' (40.077766 / -104.579933)	10/19/23	2	0.6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-10 @ 2' (40.077739 / -104.579904)	10/19/23	2	1.2	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-11 @ 2' (40.077731 / -104.579866)	10/19/23	2	0.7	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-12 @ 2' (40.077715 / -104.579909)	10/19/23	2	0.8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-13 @ 2' (40.077725 / -104.579942)	10/19/23	2	1.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-14 @ 2' (40.077739 / -104.579960)	10/19/23	2	0.8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-FS-02 @ 3' (40.077736 / -104.579921)	10/19/23	3	0.2	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-FS-03 @ 4' (40.077721 / -104.579887)	10/19/23	4	1.1	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500

TABLE 3  
PAH ANALYTICAL RESULTS SUMMARY  
GRINDE 1-64-5-0108C  
SURFACE RELEASE  
40.077778 / -104.579931  
NW¼ SW¼ SEC.5 T1N R64W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 462021  
REMEDATION # 32259

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading	1-Methyl- naphthalene (mg/kg)	2-Methyl- naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)- anthracene (mg/kg)	Benzo(a)-pyrene (mg/kg)	Benzo(b)- fluoranthene (mg/kg)	Benzo(k)- fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)- anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(1,2,3- cd)-pyrene (mg/kg)	Naphthalene (mg/kg)	Pyrene (mg/kg)
<b>ECMC Table 915-1 Residential Screening Levels</b>				<b>18</b>	<b>24</b>	<b>360</b>	<b>1,800</b>	<b>1.1</b>	<b>0.11</b>	<b>1.1</b>	<b>11</b>	<b>110</b>	<b>0.11</b>	<b>240</b>	<b>240</b>	<b>1.1</b>	<b>2</b>	<b>180</b>
<b>Confirmation Samples Collected Following Over-Excavation CS-FS-02 and CS-SS-12</b>																		
CS-SS-15 @ 4' (40.077742 / -104.579935)	11/03/23	4	4.6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-16 @ 4.5' (40.077762 / -104.579905)	11/03/23	4.5	5.1	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-17 @ 3' (40.077711 / -104.579848)	11/03/23	3	6.6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-18 @ 3' (40.077708 / -104.579863)	11/03/23	3	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-19 @ 3' (40.077718 / -104.579875)	11/03/23	3	4	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-FS-04 @ 5' (40.077745 / -104.579934)	11/03/23	5	3.6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-FS-05 @ 4' (40.077719 / -104.579858)	11/03/23	4	2.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
<b>Confirmation Samples Collected Following Over-Excavation of CS-SS-15 through CS-SS-19, CS-FS-04, and CS-FS-05</b>																		
CS-SS-20 @ 4' (40.077704 / -104.579849)	12/13/23	4	1.3	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-21 @ 5' (40.077716 / -104.579891)	12/13/23	5	1.8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-22 @ 5' (40.077723 / -104.579902)	12/13/23	5	1.9	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-23 @ 5' (40.077735 / -104.579931)	12/13/23	5	1.3	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-SS-24 @ 4' (40.077705 / -104.579838)	12/13/23	4	0.8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-FS-06 @ 5' (40.077732 / -104.579859)	12/13/23	5	1.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
CS-FS-07 @ 6' (40.077756 / -104.579913)	12/13/23	6	2.3	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.0038	<0.00500
ECMC = Energy & Carbon Management Commission mg/kg = milligrams per kilogram ppm-v = parts per million by volume PID = Photoionization Detector Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit. Note: Values presented in <b>BOLD</b> contained concentrations exceeding applicable ECMC Table 915-1 Regulatory Limits.																		



TABLE 4  
RESIDUAL IMPACT ANALYTICAL SUMMARY  
GRINDE 1-64-5-0108C  
SURFACE RELEASE  
40.077778 / -104.579931  
NW¼ SW¼ SEC.5 T1N R64W 6PM  
WELD COUNTY, COLORADO  
LOCATION ID 462021  
REMEDATION # 32259

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Boron (mg/L)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
<b>ECMC Table 915-1 Residential Screening Levels</b>				<b>2</b>	<b>&lt;4</b>	<b>6-8.3</b>	<b>&lt;6</b>
<b>Local Clean-Up Levels</b>				<b>--</b>	<b>--</b>	<b>8.65</b>	<b>7.34</b>
<b>Background Comparison Samples</b>							
Background-01 @ 0.5-2' (40.078135 / -104.580239)	09/14/23	0.5-2	5.6	0.415	1.37	<b>8.65</b>	<b>7.16</b>
Background-02 @ 0.5-2' (40.077958 / -104.580378)	09/14/23	0.5-2	4.7	0.373	1.04	<b>8.57</b>	<b>6.30</b>
Background-03 @ 0.5-2' (40.077462 / -104.579825)	09/14/23	0.5-2	4.3	0.385	1.03	<b>8.42</b>	<b>6.39</b>
Background-04 @ 0.5-2' (40.077625 / -104.579550)	09/14/23	0.5-2	5.1	0.637	1.38	<b>8.47</b>	<b>7.34</b>
Background-05 @ 0.5-2' (40.077896 / -104.579474)	09/14/23	0.5-2	3.8	0.704	1.26	7.33	<b>6.60</b>
<b>Confirmation Samples Collected Following Over-Excavation of SS-02, SS-13, FS-01, FS-02, CS-SS-04, and CS-SS-06</b>							
CS-SS-09 @ 2' (40.077766 / -104.579993)	10/19/23	2	0.6	0.401	3.57	<b>8.44</b>	<b>11.5</b>
CS-SS-10 @ 2' (40.077739 / -104.579904)	10/19/23	2	1.2	0.281	<b>6.97</b>	7.69	<b>6.23</b>
<b>Confirmation Samples Collected Following Over-Excavation of CS-SS-15 through CS-SS-19, CS-FS-04, and CS-FS-05</b>							
CS-SS-20 @ 4' (40.077704 / -104.579849)	12/13/23	4	1.3	0.370	2.26	8.24	<b>9.97</b>
CS-SS-21 @ 5' (40.077716 / -104.579891)	12/13/23	5	1.8	0.515	<b>5.27</b>	8.15	<b>19.6</b>
CS-SS-22 @ 5' (40.077723 / -104.579902)	12/13/23	5	1.9	0.652	<b>5.18</b>	8.21	<b>20.7</b>
CS-SS-23 @ 5' (40.077735 / -104.579931)	12/13/23	5	1.3	0.375	<b>5.17</b>	8.17	<b>17.9</b>
CS-SS-24 @ 4' (40.077705 / -104.579838)	12/13/23	4	0.8	0.239	1.57	8.21	<b>7.97</b>
CS-FS-06 @ 5' (40.077732 / -104.579859)	12/13/23	5	1.5	0.476	2.99	8.06	<b>9.50</b>
CS-FS-07 @ 6' (40.077756 / -104.579913)	12/13/23	6	2.3	0.425	3.89	8.13	<b>12.4</b>
ECMC = Energy & Carbon Management Commission mmhos/cm = millimhos per centimeter SAR = Sodium Adsorption Ratio ppm-v = parts per million by volume PID = Photoionization Detector Note: Values presented in <b>BOLD</b> contained concentrations exceeding applicable ECMC Table 915-1 Regulatory Limits. Highlighted values exceed 915-1 <b>and</b> "local clean-up levels" established by background comparison, where applicable							



## **ATTACHMENT A**

### **Photo Log**

Grinde 1-64-5-0108C

Location ID 462021

Remediation # 32259

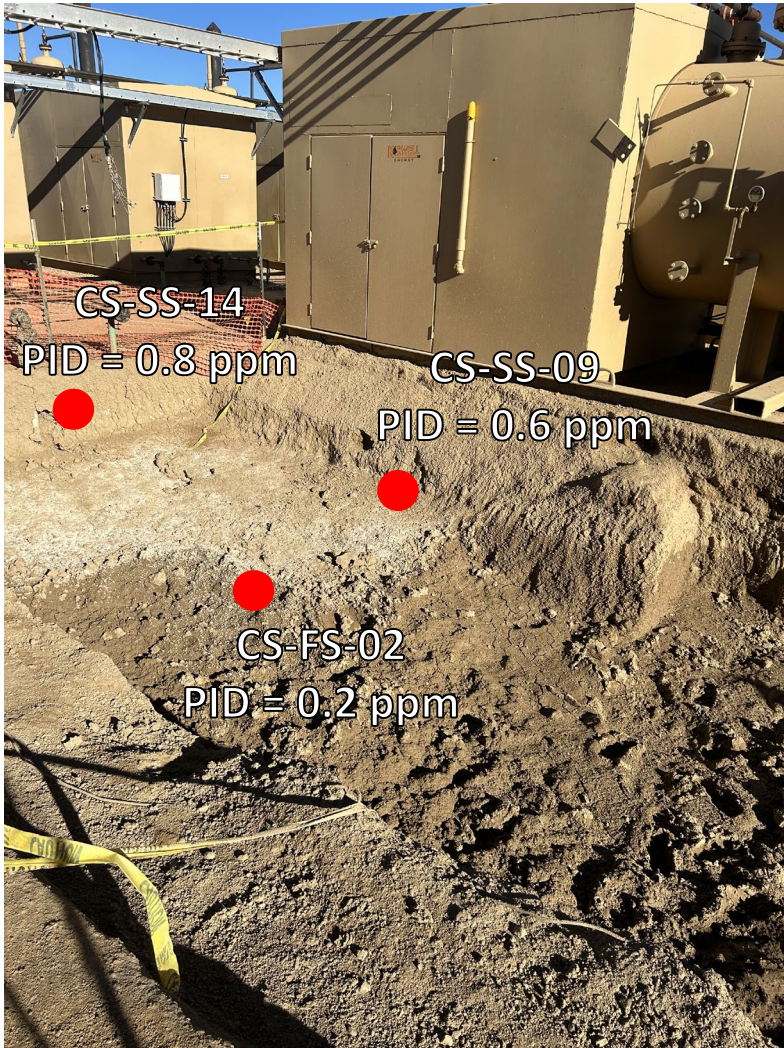
Confirmation Sampling

October-December 2023





## Over-Excavation / Confirmation Sampling – 10/19/23



Looking northwest at over-excavation of SS-02, SS-13, FS-01, FS-02, CS-SS-04, CS-SS-06

No petroleum hydrocarbon staining or odor observed



Looking east-northeast at over-excavation of SS-02, SS-13, FS-01, FS-02, CS-SS-04, CS-SS-06

No petroleum hydrocarbon staining or odor observed



## Over-Excavation / Confirmation Sampling – 11/03/23



Looking southwest at over-excavation of CS-SS-13 and CS-FS-02

No petroleum hydrocarbon staining or odor observed

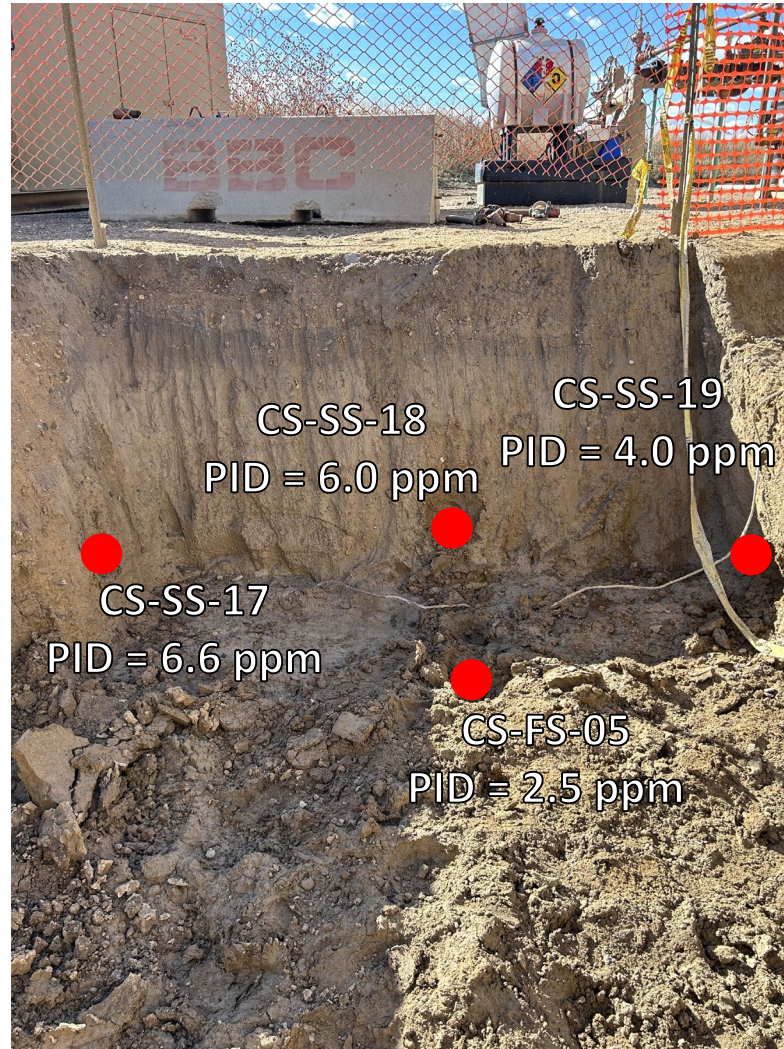


Looking north-northeast at over-excavation of CS-FS-02

No petroleum hydrocarbon staining or odor observed



## Over-Excavation / Confirmation Sampling – 11/03/23

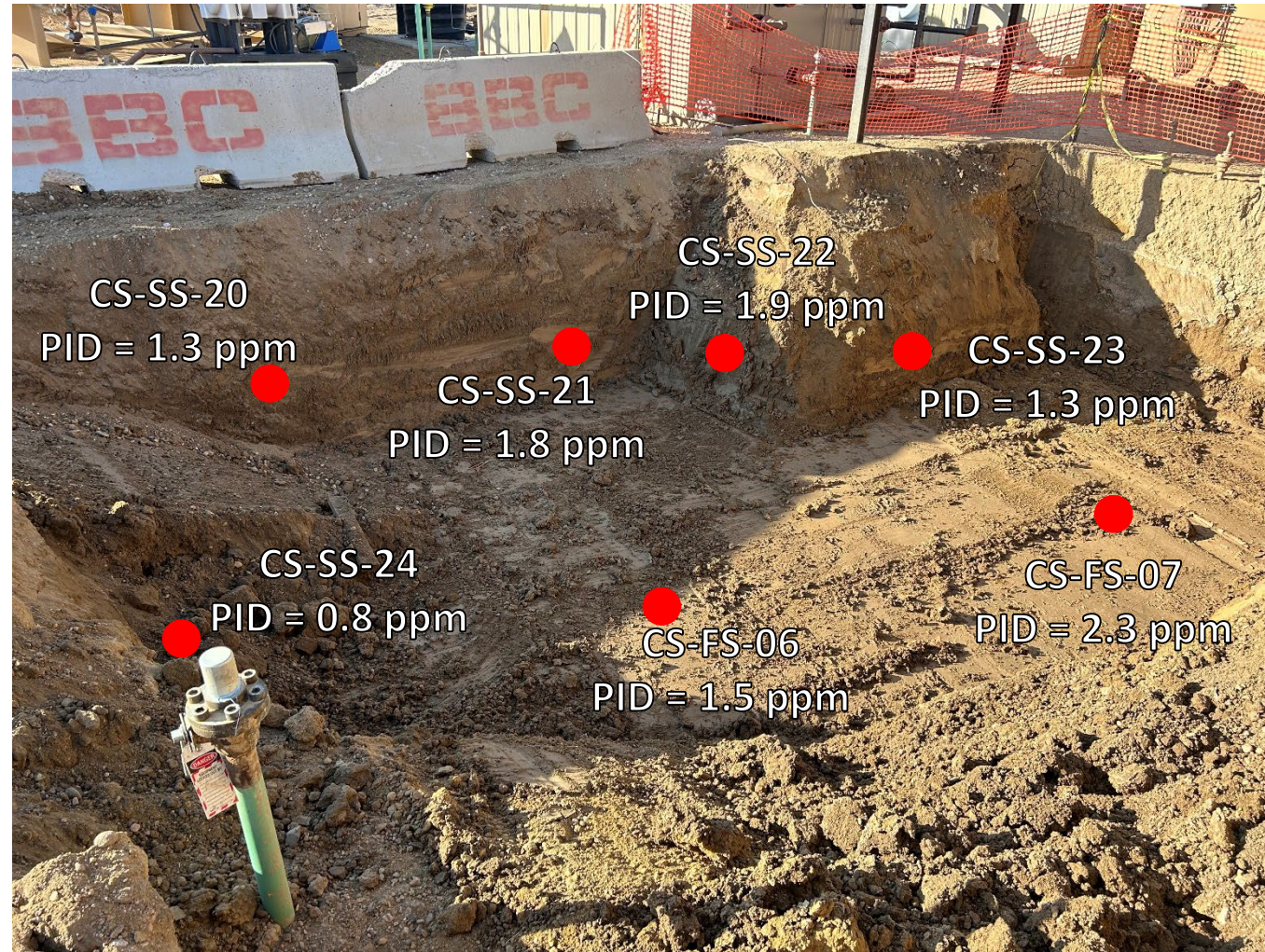


Looking south at over-excavation of CS-SS-12

No petroleum hydrocarbon staining or odor observed



## Over-Excavation / Confirmation Sampling – 12/19/23



Looking south-southwest at over-excavation of CS-SS-16 through CS-SS-19, CS-FS-04, and CS-FS-05

No petroleum hydrocarbon staining or odor observed



## **ATTACHMENT B**

### **Laboratory Analytical Reports**

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

October 26, 2023

Andrew Newberry

Eagle Environmental Consulting

8000 W 44th Ave

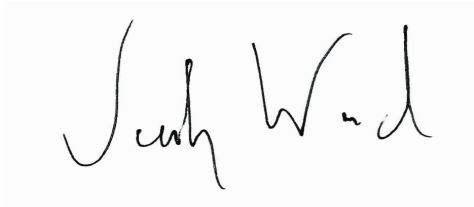
Wheat Ridge, CO 80033

RE: Civitas - Grinde 1-64-5-0108C

Work Order # 2310366

Enclosed are the results of analyses for samples received by Summit Scientific on 10/19/23 13:26. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

Jacob Wood For Paul Shrewsbury

President



Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
10/26/23 12:20

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS-SS-09@2'	2310366-01	Soil	10/19/23 10:00	10/19/23 13:26
CS-SS-10@2'	2310366-02	Soil	10/19/23 10:05	10/19/23 13:26
CS-SS-11@2'	2310366-03	Soil	10/19/23 10:10	10/19/23 13:26
CS-SS-12@2'	2310366-04	Soil	10/19/23 10:15	10/19/23 13:26
CS-SS-13@2'	2310366-05	Soil	10/19/23 10:20	10/19/23 13:26
CS-SS-14@2'	2310366-06	Soil	10/19/23 11:15	10/19/23 13:26
CS-FS-02@3'	2310366-07	Soil	10/19/23 10:25	10/19/23 13:26
CS-FS-03@4'	2310366-08	Soil	10/19/23 10:30	10/19/23 13:26

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 <u>1</u> of <u>1</u>
2310306	

Client: <u>Eagle Environmental Consulting</u>		Send Data To:		Send Invoice To:	
Address: <u>8000 W 44th Ave</u>		Project Manager: <u>Andrew Newberry</u>		Company: <u>Civitas</u>	
City/State/Zip: <u>Wheat Ridge, CO 80033</u>		E-Mail: <u>anewberry@eagle-enviro.com</u>		Project Name/Location:	
Phone: <u>303-433-0479</u>		Project Name: <u>Grinde 1-04-05-0108C</u>		AFE#:	
Sampler Name: <u>EL</u>		Project Number: <u>      </u>		PO/Billing Codes:	
				Contact: <u>Costin</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	C, ATEX, Naph, TMBs -8200 DRO/RLO - 8215 PAHs - 8270D SEM EC-9050A SAR-20B pH-9045D Boron- DTPA/ sorbitol								
1	CS-SS-09@2'	10/19/23	1000	2			X			X			X	X	X	X	X	X		EC, SAR, pH = Saturated paste prep	
2	CS-SS-10@2'		1005																		
3	CS-SS-11@2'		1010																		
4	CS-SS-12@2'		1015																		
5	CS-SS-13@2'		1020																	*MDLs needed	
6	CS-SS-14@2'		1115																		
7	CS-FS-02@3'		1025																		
8	CS-FS-03@4'		1030																		
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>10/19/23 1322</u>	Received by: <u>[Signature]</u>	Date/Time: <u>10/19/23 13:26</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	Field Turb.	
Temperature Upon Receipt: <u>11.5</u>	Corrected Temperature	IR gun #: <u>2</u>	HNO3 lot #:			

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2310366Client: Eagle Civics Client Project ID: Grinde 1-64-05-0108CShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: \_\_\_\_\_
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 11.5 Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
If custody seals are present, are they intact? <sup>(1)</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	72 hours
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

John W. D.  
Custodian Printed Name

10/19/23 13:26  
Date/Time



Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**  
10/26/23 12:20

**CS-SS-09@2'**  
**2310366-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/19/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0828	10/20/23	10/21/23	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	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.023</b>	0.50		"	"	"	"	"	"	J

Date Sampled: **10/19/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		116 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		99.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.0 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/19/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>C10-C28 (DRO)</b>	<b>12</b>	50	4.3	mg/kg	1	BGJ0831	10/20/23	10/21/23	EPA 8015M	J
<b>C28-C36 (ORO)</b>	<b>4.8</b>	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/19/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		84.6 %		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.



Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
10/26/23 12:20

**CS-SS-09@2'**  
**2310366-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/19/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0811	10/20/23	10/21/23	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: **10/19/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		48.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		40.9 %		40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/19/23 10:00**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.401</b>	2.00	0.00690	mg/L	1	BGJ0920	10/24/23	10/24/23	EPA 6020B	J

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

Date Sampled: **10/19/23 10:00**

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

Summit Scientific



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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**  
10/26/23 12:20

**CS-SS-09@2'**  
**2310366-01 (Soil)**

**Summit Scientific**

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

Calcium	93.2	0.0500	mg/L dry	1	BGJ0859	10/20/23	10/24/23	EPA 6020B
Magnesium	112	0.0500	"	"	"	"	"	"
Sodium	696	0.0500	"	"	"	"	"	"

**Calculated Analysis**

Date Sampled: **10/19/23 10:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	11.5	0.00100		units	1	BGJ1066	10/26/23	10/26/23	Calculation	

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

Date Sampled: **10/19/23 10:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.9			%	1	BGJ1003	10/25/23	10/25/23	Calculation	

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

Date Sampled: **10/19/23 10:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.57	0.0100	0.00100	mmhos/cm	1	BGJ0890	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/19/23 10:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.44			pH Units	1	BGJ0891	10/23/23	10/23/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

10/26/23 12:20

**CS-SS-10@2'**  
**2310366-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/19/23 10:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0828	10/20/23	10/21/23	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	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.031</b>	0.50		"	"	"	"	"	"	J

Date Sampled: **10/19/23 10:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		84.7 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		97.0 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.0 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/19/23 10:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>C10-C28 (DRO)</b>	<b>11</b>	50	4.3	mg/kg	1	BGJ0831	10/20/23	10/21/23	EPA 8015M	J
<b>C28-C36 (ORO)</b>	<b>5.1</b>	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/19/23 10:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		79.4 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

10/26/23 12:20

**CS-SS-10@2'**  
**2310366-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/19/23 10:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0811	10/20/23	10/21/23	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: **10/19/23 10:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		44.8 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		43.6 %		40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/19/23 10:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.281	2.00	0.00690	mg/L	1	BGJ0920	10/24/23	10/24/23	EPA 6020B	J

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

Date Sampled: **10/19/23 10:05**

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

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**  
10/26/23 12:20

**CS-SS-10@2'**  
**2310366-02 (Soil)**

**Summit Scientific**

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

Calcium	372	0.0500	mg/L dry	1	BGJ0859	10/20/23	10/24/23	EPA 6020B
Magnesium	378	0.0500	"	"	"	"	"	"
Sodium	714	0.0500	"	"	"	"	"	"

**Calculated Analysis**

Date Sampled: **10/19/23 10:05**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.23	0.00100		units	1	BGJ1066	10/26/23	10/26/23	Calculation	

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

Date Sampled: **10/19/23 10:05**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.2			%	1	BGJ1003	10/25/23	10/25/23	Calculation	

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

Date Sampled: **10/19/23 10:05**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	6.97	0.0100	0.00100	mmhos/cm	1	BGJ0890	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/19/23 10:05**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.69			pH Units	1	BGJ0891	10/23/23	10/23/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

10/26/23 12:20

**CS-SS-11@2'**  
**2310366-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/19/23 10:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0828	10/20/23	10/21/23	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	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.035</b>	0.50		"	"	"	"	"	"	J

Date Sampled: **10/19/23 10:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		93.7 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.4 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/19/23 10:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>C10-C28 (DRO)</b>	<b>15</b>	50	4.3	mg/kg	1	BGJ0831	10/20/23	10/21/23	EPA 8015M	J
<b>C28-C36 (ORO)</b>	<b>5.7</b>	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/19/23 10:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		77.5 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
10/26/23 12:20

**CS-SS-11@2'**  
**2310366-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/19/23 10:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0811	10/20/23	10/21/23	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: **10/19/23 10:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		45.9 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		43.3 %		40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/19/23 10:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.234</b>	2.00	0.00690	mg/L	1	BGJ0920	10/24/23	10/24/23	EPA 6020B	J

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

Date Sampled: **10/19/23 10:10**

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

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**  
10/26/23 12:20

**CS-SS-11@2'**  
**2310366-03 (Soil)**

**Summit Scientific**

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

Calcium	34.1	0.0500	mg/L dry	1	BGJ0859	10/20/23	10/24/23	EPA 6020B
Magnesium	24.2	0.0500	"	"	"	"	"	"
Sodium	204	0.0500	"	"	"	"	"	"

**Calculated Analysis**

Date Sampled: **10/19/23 10:10**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.53	0.00100		units	1	BGJ1066	10/26/23	10/26/23	Calculation	

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

Date Sampled: **10/19/23 10:10**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.2			%	1	BGJ1003	10/25/23	10/25/23	Calculation	

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

Date Sampled: **10/19/23 10:10**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.14	0.0100	0.00100	mmhos/cm	1	BGJ0890	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/19/23 10:10**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.56			pH Units	1	BGJ0891	10/23/23	10/23/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**  
10/26/23 12:20

**CS-SS-12@2'**  
**2310366-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/19/23 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0828	10/20/23	10/21/23	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	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.025</b>	0.50		"	"	"	"	"	"	J

Date Sampled: **10/19/23 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		106 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/19/23 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>C10-C28 (DRO)</b>	<b>9.2</b>	50	4.3	mg/kg	1	BGJ0831	10/20/23	10/21/23	EPA 8015M	J
<b>C28-C36 (ORO)</b>	<b>6.0</b>	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/19/23 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		80.3 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

10/26/23 12:20

**CS-SS-12@2'**  
**2310366-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/19/23 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0811	10/20/23	10/21/23	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: **10/19/23 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		45.8 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		49.7 %		40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/19/23 10:15**

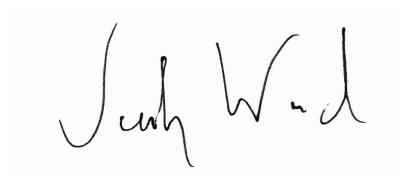
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.399</b>	2.00	0.00690	mg/L	1	BGJ0920	10/24/23	10/24/23	EPA 6020B	J

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

Date Sampled: **10/19/23 10:15**

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

Summit Scientific



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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**  
10/26/23 12:20

**CS-SS-12@2'**  
**2310366-04 (Soil)**

**Summit Scientific**

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

Calcium	67.3	0.0500	mg/L dry	1	BGJ0859	10/20/23	10/24/23	EPA 6020B
Magnesium	57.1	0.0500	"	"	"	"	"	"
Sodium	396	0.0500	"	"	"	"	"	"

**Calculated Analysis**

Date Sampled: **10/19/23 10:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.58	0.00100		units	1	BGJ1066	10/26/23	10/26/23	Calculation	

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

Date Sampled: **10/19/23 10:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.8			%	1	BGJ1003	10/25/23	10/25/23	Calculation	

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

Date Sampled: **10/19/23 10:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.08	0.0100	0.00100	mmhos/cm	1	BGJ0890	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/19/23 10:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.47			pH Units	1	BGJ0891	10/23/23	10/23/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

10/26/23 12:20

**CS-SS-13@2'**  
**2310366-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/19/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0828	10/20/23	10/21/23	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	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.032</b>	0.50		"	"	"	"	"	"	J

Date Sampled: **10/19/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		98.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.2 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/19/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>C10-C28 (DRO)</b>	<b>13</b>	50	4.3	mg/kg	1	BGJ0831	10/20/23	10/21/23	EPA 8015M	J
<b>C28-C36 (ORO)</b>	<b>5.4</b>	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/19/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		82.0 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

10/26/23 12:20

**CS-SS-13@2'**  
**2310366-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/19/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0811	10/20/23	10/21/23	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: **10/19/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		61.9 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		59.2 %		40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/19/23 10:20**

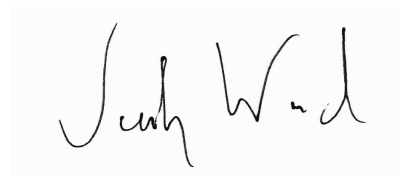
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.460</b>	2.00	0.00690	mg/L	1	BGJ0920	10/24/23	10/24/23	EPA 6020B	J

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

Date Sampled: **10/19/23 10:20**

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

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C  
Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
10/26/23 12:20

**CS-SS-13@2'**  
**2310366-05 (Soil)**

**Summit Scientific**

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

Calcium	116	0.0500	mg/L dry	1	BGJ0859	10/20/23	10/24/23	EPA 6020B
Magnesium	87.5	0.0500	"	"	"	"	"	"
Sodium	589	0.0500	"	"	"	"	"	"

**Calculated Analysis**

Date Sampled: **10/19/23 10:20**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	10.1	0.00100		units	1	BGJ1066	10/26/23	10/26/23	Calculation	

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

Date Sampled: **10/19/23 10:20**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.5			%	1	BGJ1003	10/25/23	10/25/23	Calculation	

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

Date Sampled: **10/19/23 10:20**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.18	0.0100	0.00100	mmhos/cm	1	BGJ0890	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/19/23 10:20**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.30			pH Units	1	BGJ0891	10/23/23	10/23/23	EPA 9045D	

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8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

10/26/23 12:20

**CS-SS-14@2'**  
**2310366-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/19/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0828	10/20/23	10/21/23	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	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.029</b>	0.50		"	"	"	"	"	"	J

Date Sampled: **10/19/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		102 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.4 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/19/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>C10-C28 (DRO)</b>	<b>16</b>	50	4.3	mg/kg	1	BGJ0831	10/20/23	10/21/23	EPA 8015M	J
<b>C28-C36 (ORO)</b>	<b>4.7</b>	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/19/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		91.0 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

10/26/23 12:20

**CS-SS-14@2'**  
**2310366-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/19/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0811	10/20/23	10/21/23	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: **10/19/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		53.4 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		51.0 %		40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/19/23 11:15**

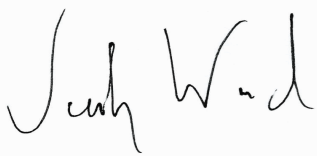
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.206</b>	2.00	0.00690	mg/L	1	BGJ0920	10/24/23	10/24/23	EPA 6020B	J

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

Date Sampled: **10/19/23 11:15**

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

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8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**  
10/26/23 12:20

**CS-SS-14@2'**  
**2310366-06 (Soil)**

**Summit Scientific**

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

Calcium	58.1	0.0500	mg/L dry	1	BGJ0859	10/20/23	10/24/23	EPA 6020B
Magnesium	25.2	0.0500	"	"	"	"	"	"
Sodium	223	0.0500	"	"	"	"	"	"

**Calculated Analysis**

Date Sampled: **10/19/23 11:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.15	0.00100		units	1	BGJ1066	10/26/23	10/26/23	Calculation	

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

Date Sampled: **10/19/23 11:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.3			%	1	BGJ1003	10/25/23	10/25/23	Calculation	

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

Date Sampled: **10/19/23 11:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.18	0.0100	0.00100	mmhos/cm	1	BGJ0890	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/19/23 11:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.47			pH Units	1	BGJ0891	10/23/23	10/23/23	EPA 9045D	

Summit Scientific

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8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**  
10/26/23 12:20

**CS-FS-02@3'**  
**2310366-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/19/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0828	10/20/23	10/21/23	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	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.028</b>	0.50		"	"	"	"	"	"	J

Date Sampled: **10/19/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		108 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		97.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/19/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>C10-C28 (DRO)</b>	<b>16</b>	50	4.3	mg/kg	1	BGJ0831	10/20/23	10/21/23	EPA 8015M	J
<b>C28-C36 (ORO)</b>	<b>5.3</b>	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/19/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		68.2 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**  
10/26/23 12:20

**CS-FS-02@3'**  
**2310366-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/19/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0811	10/20/23	10/21/23	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: **10/19/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		46.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		41.7 %		40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/19/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.332	2.00	0.00690	mg/L	1	BGJ0920	10/24/23	10/24/23	EPA 6020B	J

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

Date Sampled: **10/19/23 10:25**

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

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**  
10/26/23 12:20

**CS-FS-02@3'**  
**2310366-07 (Soil)**

**Summit Scientific**

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

Calcium	143	0.0500	mg/L dry	1	BGJ0859	10/20/23	10/24/23	EPA 6020B
Magnesium	201	0.0500	"	"	"	"	"	"
Sodium	1240	0.0500	"	"	"	"	"	"

**Calculated Analysis**

Date Sampled: **10/19/23 10:25**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	15.7	0.00100		units	1	BGJ1066	10/26/23	10/26/23	Calculation	

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

Date Sampled: **10/19/23 10:25**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.0			%	1	BGJ1003	10/25/23	10/25/23	Calculation	

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

Date Sampled: **10/19/23 10:25**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.37	0.0100	0.00100	mmhos/cm	1	BGJ0890	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/19/23 10:25**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.54			pH Units	1	BGJ0891	10/23/23	10/23/23	EPA 9045D	

Summit Scientific

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8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**  
10/26/23 12:20

**CS-FS-03@4'**  
**2310366-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/19/23 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0828	10/20/23	10/21/23	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	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.037</b>	0.50		"	"	"	"	"	"	J

Date Sampled: **10/19/23 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		95.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/19/23 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>C10-C28 (DRO)</b>	<b>15</b>	50	4.3	mg/kg	1	BGJ0831	10/20/23	10/21/23	EPA 8015M	J
<b>C28-C36 (ORO)</b>	<b>5.8</b>	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/19/23 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		84.3 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
10/26/23 12:20

**CS-FS-03@4'**  
**2310366-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/19/23 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0811	10/20/23	10/21/23	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: **10/19/23 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		50.4 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		47.1 %		40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/19/23 10:30**

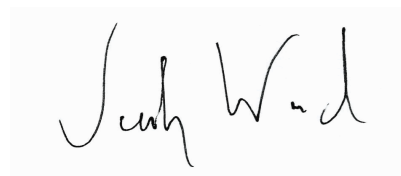
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.144</b>	2.00	0.00690	mg/L	1	BGJ0920	10/24/23	10/24/23	EPA 6020B	J

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

Date Sampled: **10/19/23 10:30**

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

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8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**  
10/26/23 12:20

**CS-FS-03@4'**  
**2310366-08 (Soil)**

**Summit Scientific**

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

Calcium	70.4	0.0500	mg/L dry	1	BGJ0859	10/20/23	10/24/23	EPA 6020B
Magnesium	58.1	0.0500	"	"	"	"	"	"
Sodium	310	0.0500	"	"	"	"	"	"

**Calculated Analysis**

Date Sampled: **10/19/23 10:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.62	0.00100		units	1	BGJ1066	10/26/23	10/26/23	Calculation	

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

Date Sampled: **10/19/23 10:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.2			%	1	BGJ1003	10/25/23	10/25/23	Calculation	

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

Date Sampled: **10/19/23 10:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.86	0.0100	0.00100	mmhos/cm	1	BGJ0890	10/23/23	10/23/23	EPA 120.1	

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

Date Sampled: **10/19/23 10:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.24			pH Units	1	BGJ0891	10/23/23	10/23/23	EPA 9045D	

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
10/26/23 12:20

## 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 BGJ0828 - EPA 5030 Soil MS

##### Blank (BGJ0828-BLK1)

Prepared & Analyzed: 10/20/23

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		105	50-150			
Surrogate: Toluene-d8	0.0402		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0382		"	0.0400		95.6	50-150			

##### LCS (BGJ0828-BS1)

Prepared & Analyzed: 10/20/23

Benzene	0.103	0.0020	mg/kg	0.100		103	70-130			
Toluene	0.103	0.0050	"	0.100		103	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	0.0992	0.0050	"	0.100		99.2	70-130			
1,2,4-Trimethylbenzene	0.102	0.0050	"	0.100		102	70-130			
1,3,5-Trimethylbenzene	0.102	0.0050	"	0.100		102	70-130			
Naphthalene	0.0821	0.0038	"	0.100		82.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0433		"	0.0400		108	50-150			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0418		"	0.0400		105	50-150			

##### Matrix Spike (BGJ0828-MS1)

Source: 2310112-02

Prepared & Analyzed: 10/20/23

Benzene	0.0906	0.0020	mg/kg	0.100	ND	90.6	70-130			
Toluene	0.0894	0.0050	"	0.100	ND	89.4	70-130			
Ethylbenzene	0.0715	0.0050	"	0.100	ND	71.5	70-130			
m,p-Xylene	0.142	0.010	"	0.200	ND	71.0	70-130			
o-Xylene	0.0748	0.0050	"	0.100	ND	74.8	70-130			
1,2,4-Trimethylbenzene	0.0734	0.0050	"	0.100	ND	73.4	70-130			
1,3,5-Trimethylbenzene	0.0693	0.0050	"	0.100	ND	69.3	70-130			QM-07
Naphthalene	0.102	0.0038	"	0.100	ND	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0419		"	0.0400		105	50-150			
Surrogate: Toluene-d8	0.0429		"	0.0400		107	50-150			
Surrogate: 4-Bromofluorobenzene	0.0316		"	0.0400		79.0	50-150			

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Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

10/26/23 12:20

## 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 BGJ0828 - EPA 5030 Soil MS

Matrix Spike Dup (BGJ0828-MSD1)	Source: 2310112-02			Prepared & Analyzed: 10/20/23						
Benzene	0.0878	0.0020	mg/kg	0.100	ND	87.8	70-130	3.20	30	
Toluene	0.0877	0.0050	"	0.100	ND	87.7	70-130	2.00	30	
Ethylbenzene	0.0877	0.0050	"	0.100	ND	87.7	70-130	20.4	30	
m,p-Xylene	0.177	0.010	"	0.200	ND	88.5	70-130	21.9	30	
o-Xylene	0.0872	0.0050	"	0.100	ND	87.2	70-130	15.4	30	
1,2,4-Trimethylbenzene	0.0852	0.0050	"	0.100	ND	85.2	70-130	14.9	30	
1,3,5-Trimethylbenzene	0.0844	0.0050	"	0.100	ND	84.4	70-130	19.6	30	
Naphthalene	0.0842	0.0038	"	0.100	ND	84.2	70-130	19.4	30	
Surrogate: 1,2-Dichloroethane-d4	0.0422		"	0.0400		106	50-150			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0425		"	0.0400		106	50-150			

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8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**  
10/26/23 12:20

**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 BGJ0831 - EPA 3550A**

**Blank (BGJ0831-BLK1)**

Prepared: 10/20/23 Analyzed: 10/21/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	14.2		"	12.5		114	30-150			

**LCS (BGJ0831-BS1)**

Prepared: 10/20/23 Analyzed: 10/21/23

C10-C28 (DRO)	460	50	mg/kg	500		91.9	70-130			
Surrogate: o-Terphenyl	14.9		"	12.5		119	30-150			

**Matrix Spike (BGJ0831-MS1)**

Source: 2310112-02

Prepared: 10/20/23 Analyzed: 10/21/23

C10-C28 (DRO)	443	50	mg/kg	500	17.2	85.1	70-130			
Surrogate: o-Terphenyl	11.1		"	12.5		89.1	30-150			

**Matrix Spike Dup (BGJ0831-MSD1)**

Source: 2310112-02

Prepared: 10/20/23 Analyzed: 10/21/23

C10-C28 (DRO)	416	50	mg/kg	500	17.2	79.7	70-130	6.31	20	
Surrogate: o-Terphenyl	9.78		"	12.5		78.2	30-150			

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8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
10/26/23 12:20

## 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 BGJ0811 - EPA 5030 Soil MS

##### Blank (BGJ0811-BLK1)

Prepared: 10/20/23 Analyzed: 10/21/23

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	0.0270		"	0.0333		81.1	40-150			
Surrogate: Fluoranthene-d10	0.0294		"	0.0333		88.1	40-150			

##### LCS (BGJ0811-BS1)

Prepared: 10/20/23 Analyzed: 10/21/23

Acenaphthene	0.0299	0.00500	mg/kg	0.0333		89.8	31-137			
Anthracene	0.0275	0.00500	"	0.0333		82.5	30-120			
Benzo (a) anthracene	0.0250	0.00500	"	0.0333		75.0	30-120			
Benzo (a) pyrene	0.0245	0.00500	"	0.0333		73.4	30-120			
Benzo (b) fluoranthene	0.0246	0.00500	"	0.0333		73.8	30-120			
Benzo (k) fluoranthene	0.0264	0.00500	"	0.0333		79.2	30-120			
Chrysene	0.0268	0.00500	"	0.0333		80.3	30-120			
Dibenz (a,h) anthracene	0.0234	0.00500	"	0.0333		70.2	30-120			
Fluoranthene	0.0270	0.00500	"	0.0333		80.9	30-120			
Fluorene	0.0262	0.00500	"	0.0333		78.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0143	0.00500	"	0.0333		42.9	30-120			
Pyrene	0.0279	0.00500	"	0.0333		83.8	35-142			
1-Methylnaphthalene	0.0279	0.00500	"	0.0333		83.7	35-142			
2-Methylnaphthalene	0.0277	0.00500	"	0.0333		83.0	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0274		"	0.0333		82.3	40-150			
Surrogate: Fluoranthene-d10	0.0269		"	0.0333		80.7	40-150			

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8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
10/26/23 12:20

## 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

#### Batch BGJ0811 - EPA 5030 Soil MS

##### Matrix Spike (BGJ0811-MS1)

Source: 2310366-01

Prepared: 10/20/23 Analyzed: 10/21/23

Acenaphthene	0.0183	0.00500	mg/kg	0.0333	ND	54.8	31-137		
Anthracene	0.0192	0.00500	"	0.0333	ND	57.6	30-120		
Benzo (a) anthracene	0.0171	0.00500	"	0.0333	ND	51.4	30-120		
Benzo (a) pyrene	0.0163	0.00500	"	0.0333	ND	48.9	30-120		
Benzo (b) fluoranthene	0.0170	0.00500	"	0.0333	ND	50.9	30-120		
Benzo (k) fluoranthene	0.0177	0.00500	"	0.0333	ND	53.2	30-120		
Chrysene	0.0185	0.00500	"	0.0333	ND	55.5	30-120		
Dibenz (a,h) anthracene	0.0153	0.00500	"	0.0333	ND	45.8	30-120		
Fluoranthene	0.0193	0.00500	"	0.0333	ND	57.9	30-120		
Fluorene	0.0179	0.00500	"	0.0333	ND	53.6	30-120		
Indeno (1,2,3-cd) pyrene	0.0164	0.00500	"	0.0333	ND	49.3	30-120		
Pyrene	0.0193	0.00500	"	0.0333	ND	57.8	35-142		
1-Methylnaphthalene	0.0182	0.00500	"	0.0333	ND	54.5	15-130		
2-Methylnaphthalene	0.0184	0.00500	"	0.0333	ND	55.2	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0195		"	0.0333		58.6	40-150		
Surrogate: Fluoranthene-d10	0.0195		"	0.0333		58.4	40-150		

##### Matrix Spike Dup (BGJ0811-MSD1)

Source: 2310366-01

Prepared: 10/20/23 Analyzed: 10/21/23

Acenaphthene	0.0151	0.00500	mg/kg	0.0333	ND	45.3	31-137	19.0	30
Anthracene	0.0165	0.00500	"	0.0333	ND	49.6	30-120	14.9	30
Benzo (a) anthracene	0.0144	0.00500	"	0.0333	ND	43.1	30-120	17.4	30
Benzo (a) pyrene	0.0136	0.00500	"	0.0333	ND	40.8	30-120	18.1	30
Benzo (b) fluoranthene	0.0144	0.00500	"	0.0333	ND	43.1	30-120	16.5	30
Benzo (k) fluoranthene	0.0148	0.00500	"	0.0333	ND	44.5	30-120	17.9	30
Chrysene	0.0155	0.00500	"	0.0333	ND	46.6	30-120	17.4	30
Dibenz (a,h) anthracene	0.0148	0.00500	"	0.0333	ND	44.3	30-120	3.31	30
Fluoranthene	0.0166	0.00500	"	0.0333	ND	49.9	30-120	14.9	30
Fluorene	0.0152	0.00500	"	0.0333	ND	45.5	30-120	16.4	30
Indeno (1,2,3-cd) pyrene	0.0141	0.00500	"	0.0333	ND	42.2	30-120	15.6	30
Pyrene	0.0161	0.00500	"	0.0333	ND	48.4	35-142	17.6	30
1-Methylnaphthalene	0.0153	0.00500	"	0.0333	ND	46.0	15-130	16.8	50
2-Methylnaphthalene	0.0152	0.00500	"	0.0333	ND	45.7	15-130	19.0	50
Surrogate: 2-Methylnaphthalene-d10	0.0159		"	0.0333		47.6	40-150		
Surrogate: Fluoranthene-d10	0.0168		"	0.0333		50.3	40-150		

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

10/26/23 12:20

### 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 BGJ0920 - EPA 3050B

##### Blank (BGJ0920-BLK1)

Prepared & Analyzed: 10/24/23

Boron ND 2.00 mg/L

##### LCS (BGJ0920-BS1)

Prepared & Analyzed: 10/24/23

Boron 4.20 2.00 mg/L 5.00 84.0 80-120

##### Duplicate (BGJ0920-DUP1)

Source: 2310190-01

Prepared & Analyzed: 10/24/23

Boron 0.175 2.00 mg/L 0.202 14.0 20 J

##### Matrix Spike (BGJ0920-MS1)

Source: 2310190-01

Prepared & Analyzed: 10/24/23

Boron 4.56 2.00 mg/L 5.00 0.202 87.2 75-125

##### Matrix Spike Dup (BGJ0920-MSD1)

Source: 2310190-01

Prepared & Analyzed: 10/24/23

Boron 4.59 2.00 mg/L 5.00 0.202 87.8 75-125 0.654 25

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

10/26/23 12:20

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

### Summit Scientific

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

#### Batch BGJ0859 - General Preparation

##### Blank (BGJ0859-BLK1)

Prepared: 10/20/23 Analyzed: 10/24/23

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

##### LCS (BGJ0859-BS1)

Prepared: 10/20/23 Analyzed: 10/24/23

Calcium	5.54	0.0500	mg/L wet	5.00	111	70-130
Magnesium	5.76	0.0500	"	5.00	115	70-130
Sodium	5.53	0.0500	"	5.00	111	70-130

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

10/26/23 12:20

### 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 BGJ1003 - General Preparation

##### Duplicate (BGJ1003-DUP1)

Source: 2310337-01

Prepared & Analyzed: 10/25/23

% Solids	84.3	%	84.3	0.0135	20
----------	------	---	------	--------	----

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

10/26/23 12:20

### 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 BGJ0890 - General Preparation

##### Blank (BGJ0890-BLK1)

Prepared & Analyzed: 10/23/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

##### LCS (BGJ0890-BS1)

Prepared & Analyzed: 10/23/23

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

##### Duplicate (BGJ0890-DUP1)

Source: 2310291-01

Prepared & Analyzed: 10/23/23

Specific Conductance (EC) 1.53 0.0100 mmhos/cm 1.54 0.845 20

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

10/26/23 12:20

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

**Summit Scientific**

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

**Batch BGJ0891 - General Preparation**

**LCS (BGJ0891-BS1)**

Prepared & Analyzed: 10/23/23

pH	9.15	pH Units	9.18	99.7	95-105
----	------	----------	------	------	--------

**Duplicate (BGJ0891-DUP1)**

**Source: 2310291-01**

Prepared & Analyzed: 10/23/23

pH	8.08	pH Units	8.07	0.124	20
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Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
10/26/23 12:20

### Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration
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

November 15, 2023

Andrew Newberry

Eagle Environmental Consulting

8000 W 44th Ave

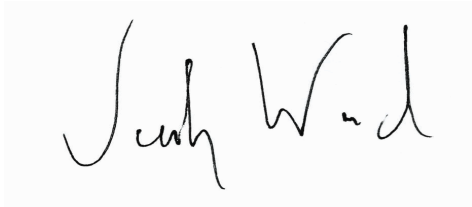
Wheat Ridge, CO 80033

RE: Civitas - Grinde 1-64-5-0108C

Work Order # 2311091

Enclosed are the results of analyses for samples received by Summit Scientific on 11/03/23 13:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury

President



Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/15/23 11:17

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS-SS-15@4'	2311091-01	Soil	11/03/23 10:40	11/03/23 13:15
CS-SS-16@4.5'	2311091-02	Soil	11/03/23 10:44	11/03/23 13:15
CS-SS-17@3'	2311091-03	Soil	11/03/23 10:48	11/03/23 13:15
CS-SS-18@3'	2311091-04	Soil	11/03/23 10:52	11/03/23 13:15
CS-SS-19@3'	2311091-05	Soil	11/03/23 10:56	11/03/23 13:15
CS-FS-04@5'	2311091-06	Soil	11/03/23 11:00	11/03/23 13:15
CS-FS-05@4'	2311091-07	Soil	11/03/23 11:04	11/03/23 13:15

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
2311091	

Client: <u>Eagle Environmental Consulting</u>		Send Data To:		Send Invoice To:	
Address: <u>8000 W 44th Ave</u>		Project Manager: <u>Andrew Newberry</u>		Company: <u>Civitas</u>	
City/State/Zip: <u>Wheat Ridge, CO 80033</u>		E-Mail: <u>anewberry@eagle-env.com</u>		Project Name/Location:	
Phone: <u>303-433-0479</u>		Project Name: <u>Grinde 1-104-05 0108C</u>		AFE#:	
Sampler Name: <u>EL</u>		Project Number: <u>      </u>		PO/Billing Codes:	
				Contact: <u>Costin</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO3	None	Other _____	Water	Soil	Air-Canister #	Other _____	C, BTEX, naph, PAHs - 82100D	DR01R0 - 8015D	PAHs - 82100D SIM	EC-9050A	SAR-20B	PH-9045D	Korzen - DTPA / Sorbitol		
1	CS-SS-15@ 4'	11/3/23	1040	2			X			X				X	X	X	X	X	X	EC, SAR, pH =	
2	CS-SS-110@ 4.5'	↓	1044	↓			↓			↓				↓	↓	↓	↓	↓	↓	Saturated paste prep	
3	CS-SS-17@ 3'	↓	1048	↓			↓			↓				↓	↓	↓	↓	↓	↓		
4	CS-SS-18@ 3'	↓	1052	↓			↓			↓				↓	↓	↓	↓	↓	↓		
5	CS-SS-19@ 3'	↓	1056	↓			↓			↓				↓	↓	↓	↓	↓	↓	* MDLs needed	
6	CS-F3-04@ 5'	↓	1100	↓			↓			↓				↓	↓	↓	↓	↓	↓		
7	CS-F3-05@ 4'	↓	1104	↓			↓			↓				↓	↓	↓	↓	↓	↓		
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/3/23 13:12</u>	Received by: <u>John W. d.</u>	Date/Time: <u>11/3/23 13:15</u>	TAT Business Days	Field DO	Notes:
Relinquished by: <u>[Signature]</u>	Date/Time: <u>      </u>	Received by: <u>      </u>	Date/Time: <u>      </u>	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by: <u>      </u>	Date/Time: <u>      </u>	Received by: <u>      </u>	Date/Time: <u>      </u>	Standard	Field Turb.	
Temperature Upon Receipt: <u>6.8</u>	Corrected Temperature <u>      </u>	IR gun #: <u>2</u>	HNO3 lot #: <u>      </u>			

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2311091Client: Eagle civiLs Client Project ID: Grinde 1-64-05 0108CShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 6.8Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
If custody seals are present, are they intact? <sup>(1)</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	72 hours
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

John W. Wood  
Custodian Printed Name

11/3/23 13:15  
Date/Time





Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

11/15/23 11:17

**CS-SS-15@4'**  
**2311091-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/03/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGK0164	11/06/23	11/07/23	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	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.083</b>	0.50		"	"	"	"	"	"	J

Date Sampled: **11/03/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		110 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		98.0 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.6 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/03/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>C10-C28 (DRO)</b>	<b>20</b>	50	4.3	mg/kg	1	BGK0168	11/06/23	11/08/23	EPA 8015M	J
<b>C28-C36 (ORO)</b>	<b>6.6</b>	50	4.3	"	"	"	"	"	"	J

Date Sampled: **11/03/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		120 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/15/23 11:17

**CS-SS-15@4'**  
**2311091-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/03/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGK0153	11/06/23	11/06/23	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: **11/03/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		57.3 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		59.9 %		40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/03/23 10:40**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.391</b>	2.00	0.00690	mg/L	1	BGK0294	11/08/23	11/09/23	EPA 6020B	J

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

Date Sampled: **11/03/23 10:40**

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

Summit Scientific



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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/15/23 11:17

**CS-SS-15@4'**  
**2311091-01 (Soil)**

**Summit Scientific**

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

Calcium	89.2	0.0500	mg/L dry	1	BGK0247	11/07/23	11/09/23	EPA 6020B
Magnesium	61.1	0.0500	"	"	"	"	"	"
Sodium	402	0.0500	"	"	"	"	"	"

**Calculated Analysis**

Date Sampled: **11/03/23 10:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.03	0.00100		units	1	BGK0560	11/15/23	11/15/23	Calculation	

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

Date Sampled: **11/03/23 10:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.7			%	1	BGK0301	11/08/23	11/08/23	Calculation	

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

Date Sampled: **11/03/23 10:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.43	0.0100	0.00100	mmhos/cm	1	BGK0256	11/08/23	11/08/23	EPA 120.1	

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

Date Sampled: **11/03/23 10:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.03			pH Units	1	BGK0260	11/08/23	11/08/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

11/15/23 11:17

**CS-SS-16@4.5'**

**2311091-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/03/23 10:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGK0164	11/06/23	11/07/23	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	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.084</b>	0.50		"	"	"	"	"	"	J

Date Sampled: **11/03/23 10:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		109 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.9 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/03/23 10:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>C10-C28 (DRO)</b>	<b>19</b>	50	4.3	mg/kg	1	BGK0168	11/06/23	11/08/23	EPA 8015M	J
<b>C28-C36 (ORO)</b>	<b>6.2</b>	50	4.3	"	"	"	"	"	"	J

Date Sampled: **11/03/23 10:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		103 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

11/15/23 11:17

**CS-SS-16@4.5'**

**2311091-02 (Soil)**

### Summit Scientific

#### PAH by EPA Method 8270D SIM

Date Sampled: **11/03/23 10:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGK0153	11/06/23	11/06/23	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: **11/03/23 10:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		54.6 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		54.0 %		40-150		"	"	"	"	

#### Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/03/23 10:44**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.364</b>	2.00	0.00690	mg/L	1	BGK0294	11/08/23	11/09/23	EPA 6020B	J

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

Date Sampled: **11/03/23 10:44**

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

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**  
11/15/23 11:17

**CS-SS-16@4.5'**  
**2311091-02 (Soil)**

**Summit Scientific**

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

Calcium	54.9	0.0500	mg/L dry	1	BGK0247	11/07/23	11/09/23	EPA 6020B
Magnesium	79.2	0.0500	"	"	"	"	"	"
Sodium	664	0.0500	"	"	"	"	"	"

**Calculated Analysis**

Date Sampled: **11/03/23 10:44**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	13.4	0.00100		units	1	BGK0560	11/15/23	11/15/23	Calculation	

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

Date Sampled: **11/03/23 10:44**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.9			%	1	BGK0301	11/08/23	11/08/23	Calculation	

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

Date Sampled: **11/03/23 10:44**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.06	0.0100	0.00100	mmhos/cm	1	BGK0256	11/08/23	11/08/23	EPA 120.1	

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

Date Sampled: **11/03/23 10:44**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.17			pH Units	1	BGK0260	11/08/23	11/08/23	EPA 9045D	

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/15/23 11:17

**CS-SS-17@3'**  
**2311091-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/03/23 10:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGK0164	11/06/23	11/07/23	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	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.084</b>	0.50		"	"	"	"	"	"	J

Date Sampled: **11/03/23 10:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		112 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/03/23 10:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>C10-C28 (DRO)</b>	<b>17</b>	50	4.3	mg/kg	1	BGK0168	11/06/23	11/08/23	EPA 8015M	J
<b>C28-C36 (ORO)</b>	<b>6.2</b>	50	4.3	"	"	"	"	"	"	J

Date Sampled: **11/03/23 10:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		88.4 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

11/15/23 11:17

**CS-SS-17@3'**  
**2311091-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/03/23 10:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGK0153	11/06/23	11/06/23	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: **11/03/23 10:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		59.2 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		61.1 %		40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/03/23 10:48**

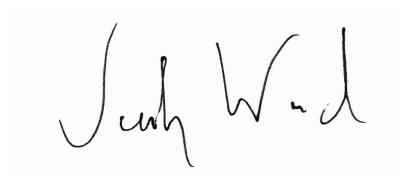
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.387</b>	2.00	0.00690	mg/L	1	BGK0294	11/08/23	11/09/23	EPA 6020B	J

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

Date Sampled: **11/03/23 10:48**

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

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/15/23 11:17

**CS-SS-17@3'**  
**2311091-03 (Soil)**

**Summit Scientific**

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

Calcium	26.3	0.0500	mg/L dry	1	BGK0247	11/07/23	11/09/23	EPA 6020B
Magnesium	30.3	0.0500	"	"	"	"	"	"
Sodium	285	0.0500	"	"	"	"	"	"

**Calculated Analysis**

Date Sampled: **11/03/23 10:48**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.99	0.00100		units	1	BGK0560	11/15/23	11/15/23	Calculation	

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

Date Sampled: **11/03/23 10:48**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	101			%	1	BGK0301	11/08/23	11/08/23	Calculation	

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

Date Sampled: **11/03/23 10:48**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.98	0.0100	0.00100	mmhos/cm	1	BGK0256	11/08/23	11/08/23	EPA 120.1	

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

Date Sampled: **11/03/23 10:48**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.34			pH Units	1	BGK0260	11/08/23	11/08/23	EPA 9045D	

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8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/15/23 11:17

**CS-SS-18@3'**  
**2311091-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/03/23 10:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGK0164	11/06/23	11/07/23	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	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.084</b>	0.50		"	"	"	"	"	"	J

Date Sampled: **11/03/23 10:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		110 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		96.9 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.9 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/03/23 10:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>C10-C28 (DRO)</b>	<b>17</b>	50	4.3	mg/kg	1	BGK0168	11/06/23	11/08/23	EPA 8015M	J
<b>C28-C36 (ORO)</b>	<b>6.6</b>	50	4.3	"	"	"	"	"	"	J

Date Sampled: **11/03/23 10:52**

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

**PAH by EPA Method 8270D SIM**

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8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

11/15/23 11:17

**CS-SS-18@3'**  
**2311091-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/03/23 10:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGK0153	11/06/23	11/06/23	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: **11/03/23 10:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		52.6 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		52.9 %		40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/03/23 10:52**

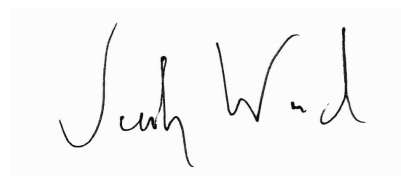
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.437</b>	2.00	0.00690	mg/L	1	BGK0294	11/08/23	11/09/23	EPA 6020B	J

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

Date Sampled: **11/03/23 10:52**

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

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

11/15/23 11:17

**CS-SS-18@3'**  
**2311091-04 (Soil)**

**Summit Scientific**

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

Calcium	29.7	0.0500	mg/L dry	1	BGK0247	11/07/23	11/09/23	EPA 6020B
Magnesium	33.2	0.0500	"	"	"	"	"	"
Sodium	455	0.0500	"	"	"	"	"	"

**Calculated Analysis**

Date Sampled: **11/03/23 10:52**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	13.6	0.00100		units	1	BGK0560	11/15/23	11/15/23	Calculation	

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

Date Sampled: **11/03/23 10:52**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.3			%	1	BGK0301	11/08/23	11/08/23	Calculation	

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

Date Sampled: **11/03/23 10:52**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.14	0.0100	0.00100	mmhos/cm	1	BGK0256	11/08/23	11/08/23	EPA 120.1	

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

Date Sampled: **11/03/23 10:52**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.35			pH Units	1	BGK0260	11/08/23	11/08/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/15/23 11:17

**CS-SS-19@3'**  
**2311091-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/03/23 10:56**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGK0164	11/06/23	11/07/23	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	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.083</b>	0.50		"	"	"	"	"	"	J

Date Sampled: **11/03/23 10:56**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		108 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		96.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.6 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/03/23 10:56**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>C10-C28 (DRO)</b>	<b>13</b>	50	4.3	mg/kg	1	BGK0168	11/06/23	11/08/23	EPA 8015M	J
<b>C28-C36 (ORO)</b>	<b>8.2</b>	50	4.3	"	"	"	"	"	"	J

Date Sampled: **11/03/23 10:56**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		104 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

11/15/23 11:17

**CS-SS-19@3'**  
**2311091-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/03/23 10:56**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGK0153	11/06/23	11/06/23	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: **11/03/23 10:56**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		50.5 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		50.8 %		40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/03/23 10:56**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.527</b>	2.00	0.00690	mg/L	1	BGK0294	11/08/23	11/09/23	EPA 6020B	J

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

Date Sampled: **11/03/23 10:56**

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

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8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/15/23 11:17

**CS-SS-19@3'**  
**2311091-05 (Soil)**

**Summit Scientific**

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

Calcium	56.7	0.0500	mg/L dry	1	BGK0247	11/07/23	11/09/23	EPA 6020B
Magnesium	69.4	0.0500	"	"	"	"	"	"
Sodium	574	0.0500	"	"	"	"	"	"

**Calculated Analysis**

Date Sampled: **11/03/23 10:56**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	12.1	0.00100		units	1	BGK0560	11/15/23	11/15/23	Calculation	

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

Date Sampled: **11/03/23 10:56**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.2			%	1	BGK0301	11/08/23	11/08/23	Calculation	

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

Date Sampled: **11/03/23 10:56**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.86	0.0100	0.00100	mmhos/cm	1	BGK0256	11/08/23	11/08/23	EPA 120.1	

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

Date Sampled: **11/03/23 10:56**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.24			pH Units	1	BGK0260	11/08/23	11/08/23	EPA 9045D	

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8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**  
11/15/23 11:17

**CS-FS-04@5'**  
**2311091-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/03/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGK0164	11/06/23	11/07/23	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	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.083</b>	0.50		"	"	"	"	"	"	J

Date Sampled: **11/03/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		111 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		98.0 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.2 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/03/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>C10-C28 (DRO)</b>	<b>17</b>	50	4.3	mg/kg	1	BGK0168	11/06/23	11/08/23	EPA 8015M	J
<b>C28-C36 (ORO)</b>	<b>12</b>	50	4.3	"	"	"	"	"	"	J

Date Sampled: **11/03/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		69.7 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/15/23 11:17

**CS-FS-04@5'**  
**2311091-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/03/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGK0153	11/06/23	11/06/23	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: **11/03/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		52.3 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		52.8 %		40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/03/23 11:00**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.450</b>	2.00	0.00690	mg/L	1	BGK0294	11/08/23	11/09/23	EPA 6020B	J

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

Date Sampled: **11/03/23 11:00**

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

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8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**  
11/15/23 11:17

**CS-FS-04@5'**  
**2311091-06 (Soil)**

**Summit Scientific**

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

Calcium	117	0.0500	mg/L dry	1	BGK0247	11/07/23	11/09/23	EPA 6020B
Magnesium	193	0.0500	"	"	"	"	"	"
Sodium	1450	0.0500	"	"	"	"	"	"

**Calculated Analysis**

Date Sampled: **11/03/23 11:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	19.1	0.00100		units	1	BGK0560	11/15/23	11/15/23	Calculation	

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

Date Sampled: **11/03/23 11:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	76.8			%	1	BGK0301	11/08/23	11/08/23	Calculation	

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

Date Sampled: **11/03/23 11:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.92	0.0100	0.00100	mmhos/cm	1	BGK0256	11/08/23	11/08/23	EPA 120.1	

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

Date Sampled: **11/03/23 11:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.25			pH Units	1	BGK0260	11/08/23	11/08/23	EPA 9045D	

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Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/15/23 11:17

**CS-FS-05@4'**  
**2311091-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/03/23 11:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGK0164	11/06/23	11/07/23	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	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.083</b>	0.50		"	"	"	"	"	"	J

Date Sampled: **11/03/23 11:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		112 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		98.3 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.1 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/03/23 11:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>C10-C28 (DRO)</b>	<b>21</b>	50	4.3	mg/kg	1	BGK0168	11/06/23	11/08/23	EPA 8015M	J
<b>C28-C36 (ORO)</b>	<b>8.2</b>	50	4.3	"	"	"	"	"	"	J

Date Sampled: **11/03/23 11:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		83.8 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

11/15/23 11:17

**CS-FS-05@4'**  
**2311091-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/03/23 11:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGK0153	11/06/23	11/06/23	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: **11/03/23 11:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		49.3 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		50.5 %		40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/03/23 11:04**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.274</b>	2.00	0.00690	mg/L	1	BGK0294	11/08/23	11/09/23	EPA 6020B	J

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

Date Sampled: **11/03/23 11:04**

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

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Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**  
11/15/23 11:17

**CS-FS-05@4'**  
**2311091-07 (Soil)**

**Summit Scientific**

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

Calcium	32.5	0.0500	mg/L dry	1	BGK0247	11/07/23	11/09/23	EPA 6020B
Magnesium	31.3	0.0500	"	"	"	"	"	"
Sodium	282	0.0500	"	"	"	"	"	"

**Calculated Analysis**

Date Sampled: **11/03/23 11:04**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.47	0.00100		units	1	BGK0560	11/15/23	11/15/23	Calculation	

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

Date Sampled: **11/03/23 11:04**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.2			%	1	BGK0301	11/08/23	11/08/23	Calculation	

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

Date Sampled: **11/03/23 11:04**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.74	0.0100	0.00100	mmhos/cm	1	BGK0256	11/08/23	11/08/23	EPA 120.1	

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

Date Sampled: **11/03/23 11:04**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.26			pH Units	1	BGK0260	11/08/23	11/08/23	EPA 9045D	

Summit Scientific

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8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/15/23 11:17

## 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 BGK0164 - EPA 5030 Soil MS

##### Blank (BGK0164-BLK1)

Prepared & Analyzed: 11/06/23

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	0.0438		"	0.0400		110	50-150			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0422		"	0.0400		105	50-150			

##### LCS (BGK0164-BS1)

Prepared & Analyzed: 11/06/23

Benzene	0.102	0.0020	mg/kg	0.100		102	70-130			
Toluene	0.0952	0.0050	"	0.100		95.2	70-130			
Ethylbenzene	0.0932	0.0050	"	0.100		93.2	70-130			
m,p-Xylene	0.184	0.010	"	0.200		91.9	70-130			
o-Xylene	0.0898	0.0050	"	0.100		89.8	70-130			
1,2,4-Trimethylbenzene	0.0917	0.0050	"	0.100		91.7	70-130			
1,3,5-Trimethylbenzene	0.0911	0.0050	"	0.100		91.1	70-130			
Naphthalene	0.111	0.0038	"	0.100		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0423		"	0.0400		106	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		99.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0401		"	0.0400		100	50-150			

##### Matrix Spike (BGK0164-MS1)

Source: 2310243-01

Prepared & Analyzed: 11/06/23

Benzene	0.0878	0.0020	mg/kg	0.100	ND	87.8	70-130			
Toluene	0.0806	0.0050	"	0.100	ND	80.6	70-130			
Ethylbenzene	0.0791	0.0050	"	0.100	ND	79.1	70-130			
m,p-Xylene	0.154	0.010	"	0.200	ND	77.0	70-130			
o-Xylene	0.0751	0.0050	"	0.100	ND	75.1	70-130			
1,2,4-Trimethylbenzene	0.0687	0.0050	"	0.100	ND	68.7	70-130			QM-05
1,3,5-Trimethylbenzene	0.0680	0.0050	"	0.100	ND	68.0	70-130			QM-05
Naphthalene	0.0810	0.0038	"	0.100	ND	81.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0446		"	0.0400		112	50-150			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.8	50-150			

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/15/23 11:17

## 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 BGK0164 - EPA 5030 Soil MS

Matrix Spike Dup (BGK0164-MSD1)	Source: 2310243-01			Prepared & Analyzed: 11/06/23							
Benzene	0.0872	0.0020	mg/kg	0.100	ND	87.2	70-130	0.754	30		
Toluene	0.0820	0.0050	"	0.100	ND	82.0	70-130	1.85	30		
Ethylbenzene	0.0787	0.0050	"	0.100	ND	78.7	70-130	0.533	30		
m,p-Xylene	0.153	0.010	"	0.200	ND	76.4	70-130	0.802	30		
o-Xylene	0.0753	0.0050	"	0.100	ND	75.3	70-130	0.239	30		
1,2,4-Trimethylbenzene	0.0691	0.0050	"	0.100	ND	69.1	70-130	0.566	30		QM-05
1,3,5-Trimethylbenzene	0.0686	0.0050	"	0.100	ND	68.6	70-130	0.966	30		QM-05
Naphthalene	0.0810	0.0038	"	0.100	ND	81.0	70-130	0.00	30		
Surrogate: 1,2-Dichloroethane-d4	0.0436		"	0.0400		109	50-150				
Surrogate: Toluene-d8	0.0401		"	0.0400		100	50-150				
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.6	50-150				

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/15/23 11:17

**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 BGK0168 - EPA 3550A**

**Blank (BGK0168-BLK1)**

Prepared: 11/06/23 Analyzed: 11/07/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	15.8		"	12.5		126	30-150			

**LCS (BGK0168-BS1)**

Prepared: 11/06/23 Analyzed: 11/07/23

C10-C28 (DRO)	498	50	mg/kg	500		99.6	70-130			
Surrogate: o-Terphenyl	14.1		"	12.5		113	30-150			

**Matrix Spike (BGK0168-MS1)**

Source: 2310243-01

Prepared: 11/06/23 Analyzed: 11/07/23

C10-C28 (DRO)	526	50	mg/kg	500	34.2	98.4	70-130			
Surrogate: o-Terphenyl	6.67		"	12.5		53.4	30-150			

**Matrix Spike Dup (BGK0168-MSD1)**

Source: 2310243-01

Prepared: 11/06/23 Analyzed: 11/07/23

C10-C28 (DRO)	495	50	mg/kg	500	34.2	92.1	70-130	6.18	20	
Surrogate: o-Terphenyl	8.18		"	12.5		65.4	30-150			

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/15/23 11:17

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BGK0153 - EPA 5030 Soil MS

##### Blank (BGK0153-BLK1)

Prepared & Analyzed: 11/06/23

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	0.0314		"	0.0333		94.3		40-150			
Surrogate: Fluoranthene-d10	0.0312		"	0.0333		93.5		40-150			

##### LCS (BGK0153-BS1)

Prepared & Analyzed: 11/06/23

Acenaphthene	0.0288	0.00500	mg/kg	0.0333		86.5		31-137			
Anthracene	0.0287	0.00500	"	0.0333		86.0		30-120			
Benzo (a) anthracene	0.0285	0.00500	"	0.0333		85.5		30-120			
Benzo (a) pyrene	0.0286	0.00500	"	0.0333		85.9		30-120			
Benzo (b) fluoranthene	0.0290	0.00500	"	0.0333		86.9		30-120			
Benzo (k) fluoranthene	0.0282	0.00500	"	0.0333		84.7		30-120			
Chrysene	0.0294	0.00500	"	0.0333		88.2		30-120			
Dibenz (a,h) anthracene	0.0268	0.00500	"	0.0333		80.3		30-120			
Fluoranthene	0.0288	0.00500	"	0.0333		86.4		30-120			
Fluorene	0.0297	0.00500	"	0.0333		89.0		30-120			
Indeno (1,2,3-cd) pyrene	0.0207	0.00500	"	0.0333		62.1		30-120			
Pyrene	0.0288	0.00500	"	0.0333		86.5		35-142			
1-Methylnaphthalene	0.0303	0.00500	"	0.0333		90.8		35-142			
2-Methylnaphthalene	0.0279	0.00500	"	0.0333		83.7		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0297		"	0.0333		89.0		40-150			
Surrogate: Fluoranthene-d10	0.0296		"	0.0333		88.7		40-150			

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/15/23 11:17

## 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 BGK0153 - EPA 5030 Soil MS

##### Matrix Spike (BGK0153-MS1)

Source: 2311091-01

Prepared & Analyzed: 11/06/23

Acenaphthene	0.0218	0.00500	mg/kg	0.0333	ND	65.5	31-137				
Anthracene	0.0201	0.00500	"	0.0333	ND	60.3	30-120				
Benzo (a) anthracene	0.0207	0.00500	"	0.0333	ND	62.0	30-120				
Benzo (a) pyrene	0.0204	0.00500	"	0.0333	ND	61.1	30-120				
Benzo (b) fluoranthene	0.0207	0.00500	"	0.0333	ND	62.2	30-120				
Benzo (k) fluoranthene	0.0201	0.00500	"	0.0333	ND	60.3	30-120				
Chrysene	0.0212	0.00500	"	0.0333	ND	63.5	30-120				
Dibenz (a,h) anthracene	0.0182	0.00500	"	0.0333	ND	54.6	30-120				
Fluoranthene	0.0201	0.00500	"	0.0333	ND	60.3	30-120				
Fluorene	0.0203	0.00500	"	0.0333	ND	60.8	30-120				
Indeno (1,2,3-cd) pyrene	0.0152	0.00500	"	0.0333	ND	45.7	30-120				
Pyrene	0.0215	0.00500	"	0.0333	ND	64.6	35-142				
1-Methylnaphthalene	0.0204	0.00500	"	0.0333	ND	61.2	15-130				
2-Methylnaphthalene	0.0203	0.00500	"	0.0333	ND	60.9	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0206		"	0.0333		61.9	40-150				
Surrogate: Fluoranthene-d10	0.0211		"	0.0333		63.2	40-150				

##### Matrix Spike Dup (BGK0153-MSD1)

Source: 2311091-01

Prepared & Analyzed: 11/06/23

Acenaphthene	0.0177	0.00500	mg/kg	0.0333	ND	53.1	31-137	20.9	30
Anthracene	0.0172	0.00500	"	0.0333	ND	51.6	30-120	15.6	30
Benzo (a) anthracene	0.0173	0.00500	"	0.0333	ND	52.0	30-120	17.7	30
Benzo (a) pyrene	0.0167	0.00500	"	0.0333	ND	50.2	30-120	19.5	30
Benzo (b) fluoranthene	0.0170	0.00500	"	0.0333	ND	51.0	30-120	19.7	30
Benzo (k) fluoranthene	0.0164	0.00500	"	0.0333	ND	49.1	30-120	20.5	30
Chrysene	0.0178	0.00500	"	0.0333	ND	53.3	30-120	17.5	30
Dibenz (a,h) anthracene	0.0152	0.00500	"	0.0333	ND	45.6	30-120	18.0	30
Fluoranthene	0.0175	0.00500	"	0.0333	ND	52.6	30-120	13.7	30
Fluorene	0.0162	0.00500	"	0.0333	ND	48.7	30-120	22.1	30
Indeno (1,2,3-cd) pyrene	0.0126	0.00500	"	0.0333	ND	37.7	30-120	19.1	30
Pyrene	0.0177	0.00500	"	0.0333	ND	53.2	35-142	19.4	30
1-Methylnaphthalene	0.0172	0.00500	"	0.0333	ND	51.5	15-130	17.3	50
2-Methylnaphthalene	0.0168	0.00500	"	0.0333	ND	50.5	15-130	18.8	50
Surrogate: 2-Methylnaphthalene-d10	0.0181		"	0.0333		54.4	40-150		
Surrogate: Fluoranthene-d10	0.0185		"	0.0333		55.5	40-150		

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/15/23 11:17

**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 BGK0294 - EPA 3050B**

**Blank (BGK0294-BLK1)**

Prepared: 11/08/23 Analyzed: 11/09/23

Boron ND 2.00 mg/L

**LCS (BGK0294-BS1)**

Prepared: 11/08/23 Analyzed: 11/09/23

Boron 5.34 2.00 mg/L 5.00 107 80-120

**Duplicate (BGK0294-DUP1)**

**Source: 2310620-01**

Prepared: 11/08/23 Analyzed: 11/09/23

Boron 0.340 2.00 mg/L 200 20 QR-04, J

**Matrix Spike (BGK0294-MS1)**

**Source: 2310620-01**

Prepared: 11/08/23 Analyzed: 11/09/23

Boron 6.62 2.00 mg/L 5.00 132 75-125 QM-05

**Matrix Spike Dup (BGK0294-MSD1)**

**Source: 2310620-01**

Prepared: 11/08/23 Analyzed: 11/09/23

Boron 7.33 2.00 mg/L 5.00 147 75-125 10.1 25 QM-05

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

11/15/23 11:17

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

### Summit Scientific

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

#### Batch BGK0247 - General Preparation

##### Blank (BGK0247-BLK1)

Prepared: 11/07/23 Analyzed: 11/09/23

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

##### LCS (BGK0247-BS1)

Prepared: 11/07/23 Analyzed: 11/09/23

Calcium	4.99	0.0500	mg/L wet	5.00	99.8	70-130
Magnesium	5.18	0.0500	"	5.00	104	70-130
Sodium	5.40	0.0500	"	5.00	108	70-130

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

11/15/23 11:17

### 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 BGK0301 - General Preparation

**Duplicate (BGK0301-DUP1)**

**Source: 2311037-01**

**Prepared & Analyzed: 11/08/23**

% Solids	82.8	%	82.5	0.341	20
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Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

11/15/23 11:17

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

#### Summit Scientific

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

#### Batch BGK0256 - General Preparation

##### Blank (BGK0256-BLK1)

Prepared & Analyzed: 11/08/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

##### LCS (BGK0256-BS1)

Prepared & Analyzed: 11/08/23

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

##### Duplicate (BGK0256-DUP1)

Source: 2310622-01

Prepared & Analyzed: 11/08/23

Specific Conductance (EC) 0.241 0.0100 mmhos/cm 0.241 0.00 20

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

11/15/23 11:17

**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 BGK0260 - General Preparation**

**LCS (BGK0260-BS1)**

Prepared & Analyzed: 11/08/23

pH	9.05	pH Units	9.18	98.6	95-105
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**Duplicate (BGK0260-DUP1)**

Source: 2310622-01

Prepared & Analyzed: 11/08/23

pH	7.82	pH Units	7.82	0.00	20
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Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
11/15/23 11:17

### Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration
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

December 19, 2023

Andrew Newberry

Eagle Environmental Consulting

8000 W 44th Ave

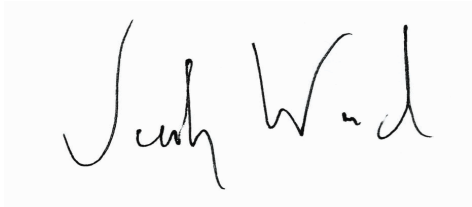
Wheat Ridge, CO 80033

RE: Civitas - Grinde 1-64-5-0108C

Work Order # 2312247

Enclosed are the results of analyses for samples received by Summit Scientific on 12/13/23 14:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury

President



Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
12/19/23 15:32

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS-SS-20@4'	2312247-01	Soil	12/13/23 11:15	12/13/23 14:05
CS-SS-21@5'	2312247-02	Soil	12/13/23 11:18	12/13/23 14:05
CS-SS-22@5'	2312247-03	Soil	12/13/23 11:21	12/13/23 14:05
CS-SS-23@5'	2312247-04	Soil	12/13/23 11:24	12/13/23 14:05
CS-SS-24@4'	2312247-05	Soil	12/13/23 11:33	12/13/23 14:05
CS-FS-06@5'	2312247-06	Soil	12/13/23 11:27	12/13/23 14:05
CS-FS-07@6'	2312247-07	Soil	12/13/23 11:30	12/13/23 14:05

Summit Scientific

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# SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2312247	

Client: <u>Eagle Environmental Consulting</u>		Send Data To:		Send Invoice To:	
Address: <u>8000 W 44th Ave</u>		Project Manager: <u>Andrew Newberry</u>		Company: <u>Cintas</u>	
City/State/Zip: <u>Wheat Ridge, CO 80033</u>		E-Mail: <u>anewberry@eagle-enviro.com</u>		Project Name/Location:	
Phone: <u>303-433-0479</u>		Project Name: <u>Grinde 1-04-05 0108C</u>		AFE#:	
Sampler Name: <u>EL</u>		Project Number: <u>—</u>		PO/Billing Codes:	
				Contact: <u>Costin McQueen</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested								Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	C, BTEX, Napch, TMBs - 82165D	DRO/RD - 8015D	PAHs - 82170D 5CM	EC - 9050A	SAR - 20B	pH - 9045D	
1	CS-SS-20@4'	12/13/23	1115	2			X			X			X	X	X	X	X	X	EC, SAR, pH =
2	CS-SS-21@5'	↓	1118	↓															Saturated paste prep
3	CS-SS-22@5'	↓	1121	↓															
4	CS-SS-23@5'	↓	1124	↓															* MDLs needed
5	CS-SS-24@4'	↓	1133	↓															
6	CS-FS-06@5'	↓	1127	↓															
7	CS-FS-07@10'	↓	1130	↓															
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <u>[Signature]</u>	Date/Time: <u>12/13/23 1405</u>	Received by: <u>[Signature]</u>	Date/Time: <u>12/13/23 14:05</u>	TAT Business Days	Field DO	Notes:
Relinquished by: <u>[Signature]</u>	Date/Time:	Received by:	Date/Time:	Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <u>5.9</u>	Corrected Temperature	IR gun #: <u>2</u>	HNO3 lot #:			

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2312247Client: Eagle Client Project ID: Civitas - Grande 1-64-05 0108CShipped 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) 5.9Thermometer # 2

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



Custodian Printed Name

12/13/23 14:05

Date/Time





Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**  
12/19/23 15:32

**CS-SS-20@4'**  
**2312247-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **12/13/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0511	12/13/23	12/13/23	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: **12/13/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		136 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		109 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **12/13/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	<b>22</b>	50	4.3	mg/kg	1	BGL0514	12/13/23	12/13/23	EPA 8015M	J
C28-C36 (ORO)	<b>14</b>	50	4.3	"	"	"	"	"	"	J

Date Sampled: **12/13/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		58.3 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

12/19/23 15:32

**CS-SS-20@4'**  
**2312247-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **12/13/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0528	12/14/23	12/15/23	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: **12/13/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		47.4 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		57.4 %		40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **12/13/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.370</b>	2.00	0.00690	mg/L	1	BGL0520	12/14/23	12/15/23	EPA 6020B	J

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

Date Sampled: **12/13/23 11:15**

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

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**  
12/19/23 15:32

**CS-SS-20@4'**  
**2312247-01 (Soil)**

**Summit Scientific**

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

Calcium	52.4	0.0500	mg/L dry	1	BGL0518	12/13/23	12/15/23	EPA 6020B
Magnesium	54.2	0.0500	"	"	"	"	"	"
Sodium	431	0.0500	"	"	"	"	"	"

**Calculated Analysis**

Date Sampled: **12/13/23 11:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.97	0.00100		units	1	BGL0659	12/18/23	12/19/23	Calculation	

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

Date Sampled: **12/13/23 11:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.4			%	1	BGL0625	12/15/23	12/18/23	Calculation	

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

Date Sampled: **12/13/23 11:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.26	0.0100	0.00100	mmhos/cm	1	BGL0549	12/14/23	12/15/23	EPA 120.1	

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

Date Sampled: **12/13/23 11:15**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.24			pH Units	1	BGL0548	12/14/23	12/15/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

12/19/23 15:32

**CS-SS-21@5'**  
**2312247-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **12/13/23 11:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0511	12/13/23	12/13/23	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: **12/13/23 11:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		143 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		111 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **12/13/23 11:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	26	50	4.3	mg/kg	1	BGL0514	12/13/23	12/13/23	EPA 8015M	J
C28-C36 (ORO)	15	50	4.3	"	"	"	"	"	"	J

Date Sampled: **12/13/23 11:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		65.3 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

12/19/23 15:32

**CS-SS-21@5'**  
**2312247-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **12/13/23 11:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0528	12/14/23	12/15/23	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: **12/13/23 11:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		44.6 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		57.8 %		40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **12/13/23 11:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.515</b>	2.00	0.00690	mg/L	1	BGL0520	12/14/23	12/15/23	EPA 6020B	J

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

Date Sampled: **12/13/23 11:18**

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

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**  
12/19/23 15:32

**CS-SS-21@5'**  
**2312247-02 (Soil)**

**Summit Scientific**

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

Calcium	102	0.0500	mg/L dry	1	BGL0518	12/13/23	12/15/23	EPA 6020B
Magnesium	126	0.0500	"	"	"	"	"	"
Sodium	1250	0.0500	"	"	"	"	"	"

**Calculated Analysis**

Date Sampled: **12/13/23 11:18**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	19.6	0.00100		units	1	BGL0659	12/18/23	12/19/23	Calculation	

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

Date Sampled: **12/13/23 11:18**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.1			%	1	BGL0625	12/15/23	12/18/23	Calculation	

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

Date Sampled: **12/13/23 11:18**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.27	0.0100	0.00100	mmhos/cm	1	BGL0549	12/14/23	12/15/23	EPA 120.1	

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

Date Sampled: **12/13/23 11:18**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.15			pH Units	1	BGL0548	12/14/23	12/15/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**  
12/19/23 15:32

**CS-SS-22@5'**  
**2312247-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **12/13/23 11:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0511	12/13/23	12/13/23	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: **12/13/23 11:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		140 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		105 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **12/13/23 11:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	22	50	4.3	mg/kg	1	BGL0514	12/13/23	12/13/23	EPA 8015M	J
C28-C36 (ORO)	16	50	4.3	"	"	"	"	"	"	J

Date Sampled: **12/13/23 11:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		70.4 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

12/19/23 15:32

**CS-SS-22@5'**  
**2312247-03 (Soil)**

### Summit Scientific

#### PAH by EPA Method 8270D SIM

Date Sampled: **12/13/23 11:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0528	12/14/23	12/15/23	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: **12/13/23 11:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		42.4 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		53.8 %		40-150		"	"	"	"	

#### Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/13/23 11:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.652</b>	2.00	0.00690	mg/L	1	BGL0520	12/14/23	12/15/23	EPA 6020B	J

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

Date Sampled: **12/13/23 11:21**

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

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**  
12/19/23 15:32

**CS-SS-22@5'**  
**2312247-03 (Soil)**

**Summit Scientific**

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

Calcium	90.4	0.0500	mg/L dry	1	BGL0518	12/13/23	12/15/23	EPA 6020B
Magnesium	111	0.0500	"	"	"	"	"	"
Sodium	1240	0.0500	"	"	"	"	"	"

**Calculated Analysis**

Date Sampled: 12/13/23 11:21

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	20.7	0.00100		units	1	BGL0659	12/18/23	12/19/23	Calculation	

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

Date Sampled: 12/13/23 11:21

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.5			%	1	BGL0625	12/15/23	12/18/23	Calculation	

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

Date Sampled: 12/13/23 11:21

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.18	0.0100	0.00100	mmhos/cm	1	BGL0549	12/14/23	12/15/23	EPA 120.1	

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

Date Sampled: 12/13/23 11:21

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21			pH Units	1	BGL0548	12/14/23	12/15/23	EPA 9045D	

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/19/23 15:32

**CS-SS-23@5'**  
**2312247-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **12/13/23 11:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0511	12/13/23	12/13/23	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: **12/13/23 11:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		132 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		103 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **12/13/23 11:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	13	50	4.3	mg/kg	1	BGL0514	12/13/23	12/13/23	EPA 8015M	J
C28-C36 (ORO)	17	50	4.3	"	"	"	"	"	"	J

Date Sampled: **12/13/23 11:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		63.7 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

12/19/23 15:32

**CS-SS-23@5'**  
**2312247-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **12/13/23 11:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0528	12/14/23	12/16/23	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: **12/13/23 11:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		45.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		56.9 %		40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **12/13/23 11:24**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.375</b>	2.00	0.00690	mg/L	1	BGL0520	12/14/23	12/15/23	EPA 6020B	J

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

Date Sampled: **12/13/23 11:24**

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

Summit Scientific



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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**  
12/19/23 15:32

**CS-SS-23@5'**  
**2312247-04 (Soil)**

**Summit Scientific**

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

Calcium	120	0.0500	mg/L dry	1	BGL0518	12/13/23	12/15/23	EPA 6020B
Magnesium	124	0.0500	"	"	"	"	"	"
Sodium	1170	0.0500	"	"	"	"	"	"

**Calculated Analysis**

Date Sampled: **12/13/23 11:24**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	17.9	0.00100		units	1	BGL0659	12/18/23	12/19/23	Calculation	

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

Date Sampled: **12/13/23 11:24**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.9			%	1	BGL0625	12/15/23	12/18/23	Calculation	

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

Date Sampled: **12/13/23 11:24**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.17	0.0100	0.00100	mmhos/cm	1	BGL0549	12/14/23	12/15/23	EPA 120.1	

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

Date Sampled: **12/13/23 11:24**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.17			pH Units	1	BGL0548	12/14/23	12/15/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

12/19/23 15:32

**CS-SS-24@4'**  
**2312247-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **12/13/23 11:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0511	12/13/23	12/13/23	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: **12/13/23 11:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		144 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		106 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **12/13/23 11:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	9.0	50	4.3	mg/kg	1	BGL0514	12/13/23	12/13/23	EPA 8015M	J
C28-C36 (ORO)	15	50	4.3	"	"	"	"	"	"	J

Date Sampled: **12/13/23 11:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		57.9 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

12/19/23 15:32

**CS-SS-24@4'**  
**2312247-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **12/13/23 11:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0528	12/14/23	12/16/23	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: **12/13/23 11:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		48.2 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		45.4 %		40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **12/13/23 11:33**

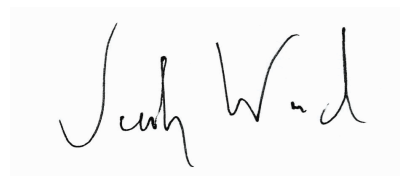
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.239</b>	2.00	0.00690	mg/L	1	BGL0520	12/14/23	12/15/23	EPA 6020B	J

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

Date Sampled: **12/13/23 11:33**

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

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**  
12/19/23 15:32

**CS-SS-24@4'**  
**2312247-05 (Soil)**

**Summit Scientific**

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

Calcium	47.4	0.0500	mg/L dry	1	BGL0518	12/13/23	12/15/23	EPA 6020B
Magnesium	37.8	0.0500	"	"	"	"	"	"
Sodium	303	0.0500	"	"	"	"	"	"

**Calculated Analysis**

Date Sampled: **12/13/23 11:33**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.97	0.00100		units	1	BGL0659	12/18/23	12/19/23	Calculation	

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

Date Sampled: **12/13/23 11:33**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.5			%	1	BGL0625	12/15/23	12/18/23	Calculation	

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

Date Sampled: **12/13/23 11:33**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.57	0.0100	0.00100	mmhos/cm	1	BGL0549	12/14/23	12/15/23	EPA 120.1	

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

Date Sampled: **12/13/23 11:33**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21			pH Units	1	BGL0548	12/14/23	12/15/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/19/23 15:32

**CS-FS-06@5'**  
**2312247-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **12/13/23 11:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0511	12/13/23	12/13/23	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: **12/13/23 11:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		148 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		109 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **12/13/23 11:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	13	50	4.3	mg/kg	1	BGL0514	12/13/23	12/13/23	EPA 8015M	J
C28-C36 (ORO)	15	50	4.3	"	"	"	"	"	"	J

Date Sampled: **12/13/23 11:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		57.7 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
12/19/23 15:32

**CS-FS-06@5'**  
**2312247-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **12/13/23 11:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0528	12/14/23	12/16/23	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: **12/13/23 11:27**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		44.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		49.8 %		40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **12/13/23 11:27**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.476</b>	2.00	0.00690	mg/L	1	BGL0520	12/14/23	12/15/23	EPA 6020B	J

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

Date Sampled: **12/13/23 11:27**

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

Summit Scientific



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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**  
12/19/23 15:32

**CS-FS-06@5'**  
**2312247-06 (Soil)**

**Summit Scientific**

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

Calcium	86.3	0.0500	mg/L dry	1	BGL0518	12/13/23	12/15/23	EPA 6020B
Magnesium	73.6	0.0500	"	"	"	"	"	"
Sodium	497	0.0500	"	"	"	"	"	"

**Calculated Analysis**

Date Sampled: 12/13/23 11:27

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.50	0.00100		units	1	BGL0659	12/18/23	12/19/23	Calculation	

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

Date Sampled: 12/13/23 11:27

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.5			%	1	BGL0625	12/15/23	12/18/23	Calculation	

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

Date Sampled: 12/13/23 11:27

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.99	0.0100	0.00100	mmhos/cm	1	BGL0549	12/14/23	12/15/23	EPA 120.1	

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

Date Sampled: 12/13/23 11:27

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.06			pH Units	1	BGL0548	12/14/23	12/15/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
12/19/23 15:32

**CS-FS-07@6'**  
**2312247-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **12/13/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0511	12/13/23	12/13/23	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: **12/13/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		140 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		107 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **12/13/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	15	50	4.3	mg/kg	1	BGL0514	12/13/23	12/13/23	EPA 8015M	J
C28-C36 (ORO)	12	50	4.3	"	"	"	"	"	"	J

Date Sampled: **12/13/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		54.6 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

12/19/23 15:32

**CS-FS-07@6'**  
**2312247-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **12/13/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0528	12/14/23	12/16/23	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: **12/13/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		46.4 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		56.1 %		40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **12/13/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>Boron</b>	<b>0.425</b>	2.00	0.00690	mg/L	1	BGL0520	12/14/23	12/15/23	EPA 6020B	J

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

Date Sampled: **12/13/23 11:30**

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

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8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**  
12/19/23 15:32

**CS-FS-07@6'**  
**2312247-07 (Soil)**

**Summit Scientific**

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

Calcium	138	0.0500	mg/L dry	1	BGL0518	12/13/23	12/15/23	EPA 6020B
Magnesium	126	0.0500	"	"	"	"	"	"
Sodium	839	0.0500	"	"	"	"	"	"

**Calculated Analysis**

Date Sampled: **12/13/23 11:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	12.4	0.00100		units	1	BGL0659	12/18/23	12/19/23	Calculation	

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

Date Sampled: **12/13/23 11:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	76.6			%	1	BGL0625	12/15/23	12/18/23	Calculation	

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

Date Sampled: **12/13/23 11:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.89	0.0100	0.00100	mmhos/cm	1	BGL0549	12/14/23	12/15/23	EPA 120.1	

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

Date Sampled: **12/13/23 11:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.13			pH Units	1	BGL0548	12/14/23	12/15/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
12/19/23 15:32

## 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 BGL0511 - EPA 5030 Soil MS

##### Blank (BGL0511-BLK1)

Prepared: 12/13/23 Analyzed: 12/14/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0515		"	0.0400		129	50-150			
Surrogate: Toluene-d8	0.0434		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0434		"	0.0400		109	50-150			

##### LCS (BGL0511-BS1)

Prepared: 12/13/23 Analyzed: 12/14/23

Benzene	0.102	0.0020	mg/kg	0.100		102	70-130			
Toluene	0.114	0.0050	"	0.100		114	70-130			
Ethylbenzene	0.102	0.0050	"	0.100		102	70-130			
m,p-Xylene	0.209	0.010	"	0.200		105	70-130			
o-Xylene	0.107	0.0050	"	0.100		107	70-130			
1,2,4-Trimethylbenzene	0.103	0.0050	"	0.100		103	70-130			
1,3,5-Trimethylbenzene	0.105	0.0050	"	0.100		105	70-130			
Naphthalene	0.0848	0.0038	"	0.100		84.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0532		"	0.0400		133	50-150			
Surrogate: Toluene-d8	0.0438		"	0.0400		109	50-150			
Surrogate: 4-Bromofluorobenzene	0.0417		"	0.0400		104	50-150			

##### Matrix Spike (BGL0511-MS1)

Source: 2312098-08

Prepared: 12/13/23 Analyzed: 12/14/23

Benzene	0.107	0.0020	mg/kg	0.100	ND	107	70-130			
Toluene	0.118	0.0050	"	0.100	ND	118	70-130			
Ethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130			
m,p-Xylene	0.207	0.010	"	0.200	ND	103	70-130			
o-Xylene	0.105	0.0050	"	0.100	ND	105	70-130			
1,2,4-Trimethylbenzene	0.0956	0.0050	"	0.100	ND	95.6	70-130			
1,3,5-Trimethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130			
Naphthalene	0.0746	0.0038	"	0.100	ND	74.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0567		"	0.0400		142	50-150			
Surrogate: Toluene-d8	0.0432		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0426		"	0.0400		107	50-150			

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8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

12/19/23 15:32

## 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 BGL0511 - EPA 5030 Soil MS

Matrix Spike Dup (BGL0511-MSD1)	Source: 2312098-08			Prepared: 12/13/23 Analyzed: 12/14/23						
Benzene	0.100	0.0020	mg/kg	0.100	ND	100	70-130	6.00	30	
Toluene	0.110	0.0050	"	0.100	ND	110	70-130	6.62	30	
Ethylbenzene	0.104	0.0050	"	0.100	ND	104	70-130	0.430	30	
m,p-Xylene	0.204	0.010	"	0.200	ND	102	70-130	1.48	30	
o-Xylene	0.104	0.0050	"	0.100	ND	104	70-130	0.402	30	
1,2,4-Trimethylbenzene	0.0938	0.0050	"	0.100	ND	93.8	70-130	1.93	30	
1,3,5-Trimethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130	1.18	30	
Naphthalene	0.0745	0.0038	"	0.100	ND	74.5	70-130	0.0805	30	
Surrogate: 1,2-Dichloroethane-d4	0.0536		"	0.0400		134	50-150			
Surrogate: Toluene-d8	0.0430		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0422		"	0.0400		105	50-150			

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
12/19/23 15:32

**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 BGL0514 - EPA 3550A**

**Blank (BGL0514-BLK1)**

Prepared: 12/13/23 Analyzed: 12/14/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	13.4		"	12.5		107	30-150			

**LCS (BGL0514-BS1)**

Prepared: 12/13/23 Analyzed: 12/14/23

C10-C28 (DRO)	423	50	mg/kg	500		84.6	70-130			
Surrogate: o-Terphenyl	12.5		"	12.5		100	30-150			

**Matrix Spike (BGL0514-MS1)**

Source: 2312098-08

Prepared: 12/13/23 Analyzed: 12/14/23

C10-C28 (DRO)	414	50	mg/kg	500	15.7	79.7	70-130			
Surrogate: o-Terphenyl	11.2		"	12.5		89.3	30-150			

**Matrix Spike Dup (BGL0514-MSD1)**

Source: 2312098-08

Prepared: 12/13/23 Analyzed: 12/14/23

C10-C28 (DRO)	411	50	mg/kg	500	15.7	79.1	70-130	0.706	20	
Surrogate: o-Terphenyl	10.1		"	12.5		80.5	30-150			

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
12/19/23 15:32

## 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 BGL0528 - EPA 5030 Soil MS

##### Blank (BGL0528-BLK1)

Prepared: 12/14/23 Analyzed: 12/15/23

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	0.0225		"	0.0333		67.6	40-150			
Surrogate: Fluoranthene-d10	0.0408		"	0.0333		122	40-150			

##### LCS (BGL0528-BS1)

Prepared: 12/14/23 Analyzed: 12/15/23

Acenaphthene	0.0358	0.00500	mg/kg	0.0333	107	31-137
Anthracene	0.0376	0.00500	"	0.0333	113	30-120
Benzo (a) anthracene	0.0341	0.00500	"	0.0333	102	30-120
Benzo (a) pyrene	0.0262	0.00500	"	0.0333	78.5	30-120
Benzo (b) fluoranthene	0.0337	0.00500	"	0.0333	101	30-120
Benzo (k) fluoranthene	0.0367	0.00500	"	0.0333	110	30-120
Chrysene	0.0390	0.00500	"	0.0333	117	30-120
Dibenz (a,h) anthracene	0.0348	0.00500	"	0.0333	104	30-120
Fluoranthene	0.0358	0.00500	"	0.0333	108	30-120
Fluorene	0.0323	0.00500	"	0.0333	97.0	30-120
Indeno (1,2,3-cd) pyrene	0.0372	0.00500	"	0.0333	112	30-120
Pyrene	0.0392	0.00500	"	0.0333	117	35-142
1-Methylnaphthalene	0.0299	0.00500	"	0.0333	89.7	35-142
2-Methylnaphthalene	0.0348	0.00500	"	0.0333	104	35-142
Surrogate: 2-Methylnaphthalene-d10	0.0298		"	0.0333	89.5	40-150
Surrogate: Fluoranthene-d10	0.0367		"	0.0333	110	40-150

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
12/19/23 15:32

## 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 BGL0528 - EPA 5030 Soil MS

Matrix Spike (BGL0528-MS1)			Source: 2312115-21		Prepared: 12/14/23 Analyzed: 12/15/23						
Acenaphthene	0.0258	0.00500	mg/kg	0.0333	ND	77.4	31-137				
Anthracene	0.0255	0.00500	"	0.0333	ND	76.6	30-120				
Benzo (a) anthracene	0.0252	0.00500	"	0.0333	ND	75.6	30-120				
Benzo (a) pyrene	0.0177	0.00500	"	0.0333	ND	53.0	30-120				
Benzo (b) fluoranthene	0.0234	0.00500	"	0.0333	ND	70.1	30-120				
Benzo (k) fluoranthene	0.0252	0.00500	"	0.0333	ND	75.7	30-120				
Chrysene	0.0261	0.00500	"	0.0333	ND	78.3	30-120				
Dibenz (a,h) anthracene	0.0259	0.00500	"	0.0333	ND	77.7	30-120				
Fluoranthene	0.0252	0.00500	"	0.0333	ND	75.5	30-120				
Fluorene	0.0243	0.00500	"	0.0333	ND	72.9	30-120				
Indeno (1,2,3-cd) pyrene	0.0237	0.00500	"	0.0333	ND	71.1	30-120				
Pyrene	0.0328	0.00500	"	0.0333	ND	98.5	35-142				
1-Methylnaphthalene	0.0217	0.00500	"	0.0333	ND	65.2	15-130				
2-Methylnaphthalene	0.0242	0.00500	"	0.0333	ND	72.7	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0231		"	0.0333		69.3	40-150				
Surrogate: Fluoranthene-d10	0.0264		"	0.0333		79.2	40-150				

Matrix Spike Dup (BGL0528-MSD1)			Source: 2312115-21		Prepared: 12/14/23 Analyzed: 12/15/23						
Acenaphthene	0.0163	0.00500	mg/kg	0.0333	ND	49.0	31-137	44.9	30		QR-02
Anthracene	0.0173	0.00500	"	0.0333	ND	51.9	30-120	38.4	30		QR-02
Benzo (a) anthracene	0.0169	0.00500	"	0.0333	ND	50.6	30-120	39.5	30		QR-02
Benzo (a) pyrene	0.0153	0.00500	"	0.0333	ND	45.9	30-120	14.3	30		
Benzo (b) fluoranthene	0.0154	0.00500	"	0.0333	ND	46.2	30-120	41.1	30		QR-02
Benzo (k) fluoranthene	0.0170	0.00500	"	0.0333	ND	51.0	30-120	38.9	30		QR-02
Chrysene	0.0180	0.00500	"	0.0333	ND	54.0	30-120	36.8	30		QR-02
Dibenz (a,h) anthracene	0.0198	0.00500	"	0.0333	ND	59.3	30-120	26.9	30		
Fluoranthene	0.0164	0.00500	"	0.0333	ND	49.2	30-120	42.1	30		QR-02
Fluorene	0.0164	0.00500	"	0.0333	ND	49.3	30-120	38.7	30		QR-02
Indeno (1,2,3-cd) pyrene	0.0189	0.00500	"	0.0333	ND	56.8	30-120	22.4	30		
Pyrene	0.0221	0.00500	"	0.0333	ND	66.2	35-142	39.3	30		QR-02
1-Methylnaphthalene	0.0140	0.00500	"	0.0333	ND	42.0	15-130	43.2	50		
2-Methylnaphthalene	0.0172	0.00500	"	0.0333	ND	51.5	15-130	34.1	50		
Surrogate: 2-Methylnaphthalene-d10	0.0148		"	0.0333		44.3	40-150				
Surrogate: Fluoranthene-d10	0.0175		"	0.0333		52.5	40-150				

Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
12/19/23 15:32

**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 BGL0520 - EPA 3050B**

**Blank (BGL0520-BLK1)**

Prepared: 12/14/23 Analyzed: 12/15/23

Boron ND 2.00 mg/L

**LCS (BGL0520-BS1)**

Prepared: 12/14/23 Analyzed: 12/15/23

Boron 4.96 2.00 mg/L 5.00 99.1 80-120

**Duplicate (BGL0520-DUP1)**

Source: 2312247-01

Prepared: 12/14/23 Analyzed: 12/15/23

Boron 0.255 2.00 mg/L 0.370 37.0 20 QR-01, J

**Matrix Spike (BGL0520-MS1)**

Source: 2312247-01

Prepared: 12/14/23 Analyzed: 12/15/23

Boron 5.19 2.00 mg/L 5.00 0.370 96.3 75-125

**Matrix Spike Dup (BGL0520-MSD1)**

Source: 2312247-01

Prepared: 12/14/23 Analyzed: 12/15/23

Boron 5.17 2.00 mg/L 5.00 0.370 95.9 75-125 0.349 25

Summit Scientific

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Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

12/19/23 15:32

## 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 BGL0518 - General Preparation

##### Blank (BGL0518-BLK1)

Prepared: 12/13/23 Analyzed: 12/15/23

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

##### LCS (BGL0518-BS1)

Prepared: 12/13/23 Analyzed: 12/15/23

Calcium	4.81	0.0500	mg/L wet	5.00	96.2	70-130
Magnesium	5.38	0.0500	"	5.00	108	70-130
Sodium	5.30	0.0500	"	5.00	106	70-130

Summit Scientific

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Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

12/19/23 15:32

### 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 BGL0625 - General Preparation

Duplicate (BGL0625-DUP1)		Source: 2312141-01		Prepared: 12/15/23 Analyzed: 12/18/23	
% Solids	88.2		%	89.1	1.07 20

Summit Scientific

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Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

12/19/23 15:32

### 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 BGL0549 - General Preparation

##### Blank (BGL0549-BLK1)

Prepared: 12/14/23 Analyzed: 12/15/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

##### LCS (BGL0549-BS1)

Prepared: 12/14/23 Analyzed: 12/15/23

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 101 95-105

##### Duplicate (BGL0549-DUP1)

Source: 2312247-01

Prepared: 12/14/23 Analyzed: 12/15/23

Specific Conductance (EC) 2.26 0.0100 mmhos/cm 2.26 0.00 20

Summit Scientific

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8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]

Project Manager: Andrew Newberry

**Reported:**

12/19/23 15:32

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

**Summit Scientific**

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

**Batch BGL0548 - General Preparation**

**LCS (BGL0548-BS1)**

Prepared: 12/14/23 Analyzed: 12/15/23

pH	9.16	pH Units	9.18	99.8	95-105
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**Duplicate (BGL0548-DUP1)**

**Source: 2312247-01**

Prepared: 12/14/23 Analyzed: 12/15/23

pH	8.26	pH Units	8.24	0.242	20
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Summit Scientific

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Eagle Environmental Consulting  
8000 W 44th Ave  
Wheat Ridge CO, 80033

Project: Civitas - Grinde 1-64-5-0108C

Project Number: [none]  
Project Manager: Andrew Newberry

**Reported:**  
12/19/23 15:32

### Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration
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