



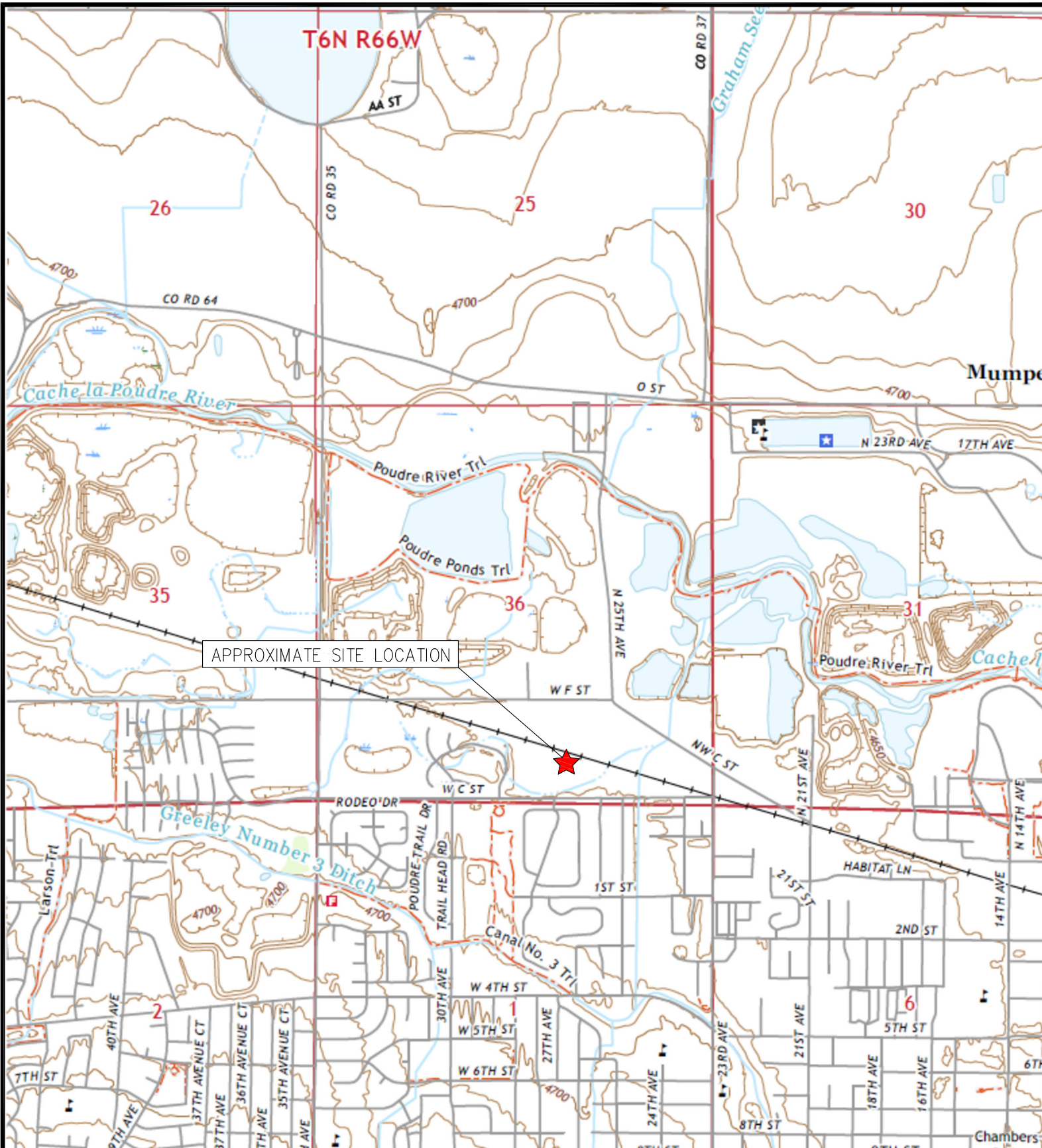
FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Initial Soil Analytical Map

Figure 4: Confirmation Soil Analytical Map



TOPOGRAPHIC SITE LOCATION MAP
 CS-BITTERSWEET 03-01-13
 SEPARATOR RELEASE
 40.438853 / -104.722836
 SW¼ SE¼ SEC.36 T6N R66W 6PM
 WELD COUNTY, COLORADO
 LOCATION ID 430474
 SPILL # 485037



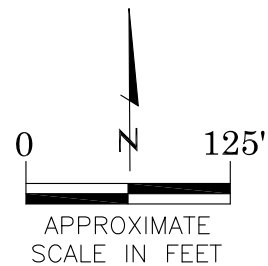
EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

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



LEGEND

- CS-BITTERSWEET 03-01-13 FACILITY BOUNDARIES
- APPROXIMATE RELEASE LOCATION



AERIAL SITE LOCATION MAP
 CS-BITTERSWEET 03-01-13
 SEPARATOR RELEASE
 40.438853 / -104.722836
 SW¼ SE¼ SEC.36 T6N R66W 6PM
 WELD COUNTY, COLORADO
 LOCATION ID 430474
 SPILL # 485037

DATE: 10/31/23

FIG. NO. 2
 DRAWN BY: GK



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LEGEND

- INITIAL ASSESSMENT/EXCAVATION BOUNDARIES
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- SS-02 SOIL SAMPLE LOCATIONS EXCEEDING REGULATORY LIMITS

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

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

(BRL) - ALL VALUES/CONCENTRATIONS BELOW REGULATORY LIMITS

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

NOTES:
CONCENTRATIONS EXCEEDING REGULATORY LIMITS, ONLY, DISPLAYED.

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

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

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

INITIAL SOIL ANALYTICAL MAP
CS-BITTERSWEET 03-01-13
SEPARATOR RELEASE
40.438853 / -104.722836
SW¼ SEC.36 T6N R66W 6PM
WELD COUNTY, COLORADO
LOCATION ID 430474
SPILL # 485037

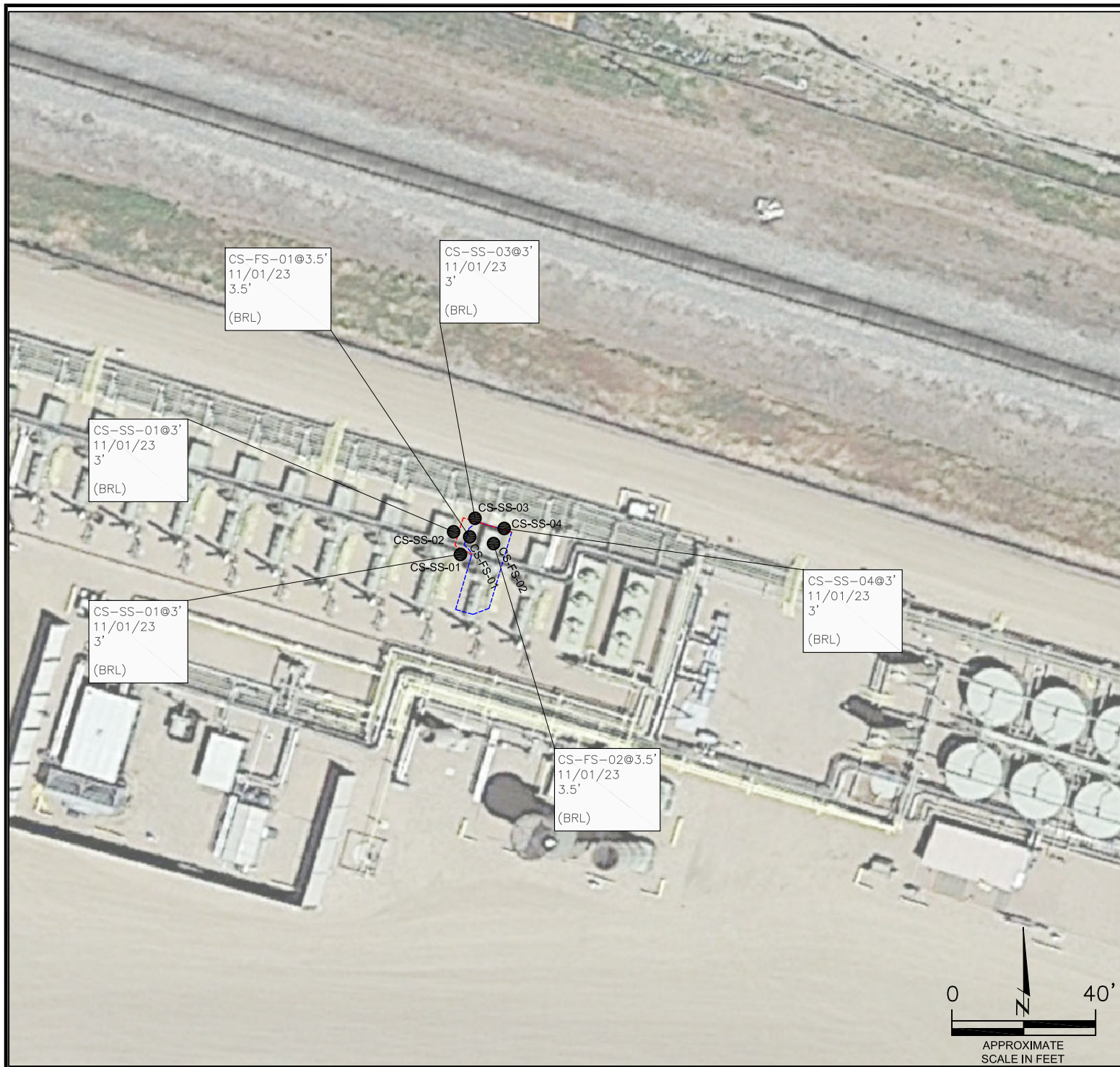
DATE:
11/13/23

DRAWN BY:
AMN

FIG.
NO. 3



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LEGEND

- INITIAL ASSESSMENT/EXCAVATION BOUNDARIES
- OVER-EXCAVATION BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION
DATE
DEPTH (FEET)
B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
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

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

(BRL) - ALL VALUES/CONCENTRATIONS BELOW REGULATORY LIMITS

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

NOTES:
CONCENTRATIONS EXCEEDING REGULATORY LIMITS, ONLY, DISPLAYED.

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

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

CONFIRMATION SOIL ANALYTICAL MAP
CS-BITTERSWEET 03-01-13
SEPARATOR RELEASE
40.438853 / -104.722836
SW¼ SE¼ SEC.36 T6N R66W 6PM
WELD COUNTY, COLORADO
LOCATION ID 430474
SPILL # 485037

DATE:
11/13/23

DRAWN BY:
AMN

FIG.
NO. 4



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TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

Table 3: Polycyclic Aromatic Hydrocarbons Analytical Results Summary

TABLE 1
 PHOTOIONIZATION DETECTOR READING SUMMARY
 CS-BITTERSWEET 03-01-13
 SEPARATOR RELEASE
 40.438853 / -104.722836
 SW¼ SE¼ SEC.36 T6N R66W 6PM
 WELD COUNTY, COLORADO
 LOCATION ID 430474
 SPILL # 485037

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)	Notes:
SS-01 @ 1.5' (40.438783 / -104.722856)	10/17/23	1.5	2.6	Y	Initial grab samples
SS-02 @ 1.5' (40.438795 / -104.722865)	10/17/23	1.5	2.8	Y	
SS-03 @ 1.5' (40.438823 / -104.722852)	10/17/23	1.5	2.3	Y	
SS-04 @ 1.5' (40.438843 / -104.722855)	10/17/23	1.5	11.9	Y	
SS-05 @ 1.5' (40.438855 / -104.722850)	10/17/23	1.5	20.6	Y	
SS-06 @ 1.5' (40.438784 / -104.722840)	10/17/23	1.5	3.7	Y	
SS-07 @ 1.5' (40.438800 / -104.722828)	10/17/23	1.5	3.7	Y	
SS-08 @ 1.5' (40.438834 / -104.722815)	10/17/23	1.5	3.1	Y	
SS-09 @ 1.5' (40.438853 / -104.722828)	10/17/23	1.5	1.5	Y	
FS-01 @ 2' (40.438797 / -104.722847)	10/17/23	2	2.3	Y	
FS-02 @ 2' (40.438835 / -104.722834)	10/17/23	2	14.7	Y	
CS-SS-01 @ 3' (40.438827 / -104.722857)	11/01/23	3	26.5	Y	Confirmation soil samples collected following the over excavation of SS- 04 and FS-02
CS-SS-02 @ 3' (40.438845 / -104.722864)	11/01/23	3	2.3	Y	
CS-SS-03 @ 3' (40.438853 / -104.722853)	11/01/23	3	1.5	Y	
CS-SS-04 @ 3' (40.438846 / -104.722826)	11/01/23	3	5.6	Y	
CS-FS-01 @ 3.5' (40.438841 / -104.722852)	11/01/23	3.5	15.8	Y	
CS-FS-02 @ 3.5' (40.438836 / -104.722828)	11/01/23	3.5	2.2	Y	
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector					

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
CS-BITTERSWEET 03-01-13
SEPARATOR RELEASE
40.438853 / -104.722836
SW¼ SE¼ SEC.36 T6N R66W 6PM
WELD COUNTY, COLORADO
LOCATION ID 430474
SPILL # 485037

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-TMB (mg/kg)	1,3,5-TMB (mg/kg)	Boron (mg/L)	Specific Conductance (mmhos/cm)	SAR
ECMC Table 915-1 Residential Screening Levels (mg/kg)				1.20	490	5.8	58	500			30	27	2	<4	<6
ECMC Table 915-1 Protection of Groundwater Soil Screening Levels				0.0026	0.69	0.78	9.9	--			0.0081	0.0087	--	--	--
Initial grab samples															
SS-01 @ 1.5' (40.438783 / -104.722856)	10/17/23	1.5	2.6	<0.0020	<0.0050	<0.0050	<0.010	0.020	13	6.8	<0.0050	<0.0050	0.203	2.49	2.50
SS-02 @ 1.5' (40.438795 / -104.722865)	10/17/23	1.5	2.8	<0.0020	<0.0050	<0.0050	<0.010	0.028	13	8.1	<0.0050	<0.0050	0.295	2.48	3.81
SS-03 @ 1.5' (40.438823 / -104.722852)	10/17/23	1.5	2.3	<0.0020	<0.0050	<0.0050	<0.010	0.029	12	6.7	<0.0050	<0.0050	0.193	1.17	2.89
SS-04 @ 1.5' (40.438843 / -104.722855)	10/17/23	1.5	11.9	<0.0020	<0.0050	<0.0050	<0.010	0.024	34	10	<0.0050	<0.0050	0.195	1.60	3.53
SS-05 @ 1.5' (40.438855 / -104.722850)	10/17/23	1.5	20.6	<0.0020	<0.0050	<0.0050	<0.010	0.027	14	6.5	<0.0050	<0.0050	0.284	1.26	2.83
SS-06 @ 1.5' (40.438784 / -104.722840)	10/17/23	1.5	3.7	<0.0020	<0.0050	<0.0050	<0.010	0.027	28	12	<0.0050	<0.0050	0.193	1.88	2.11
SS-07 @ 1.5' (40.438800 / -104.722828)	10/17/23	1.5	3.7	<0.0020	<0.0050	<0.0050	<0.010	0.026	14	7.5	<0.0050	<0.0050	0.193	1.95	1.34
SS-08 @ 1.5' (40.438834 / -104.722815)	10/17/23	1.5	3.1	<0.0020	<0.0050	<0.0050	<0.010	0.028	14	5.9	<0.0050	<0.0050	0.188	0.997	1.64
SS-09 @ 1.5' (40.438853 / -104.722828)	10/17/23	1.5	1.5	<0.0020	<0.0050	<0.0050	<0.010	0.031	11	5.4	<0.0050	<0.0050	0.208	1.18	2.11
FS-01 @ 2' (40.438797 / -104.722847)	10/17/23	2	2.3	<0.0020	<0.0050	<0.0050	<0.010	0.022	17	6.8	<0.0050	<0.0050	0.216	1.36	1.94
FS-02 @ 2' (40.438835 / -104.722834)	10/17/23	2	14.7	<0.0020	<0.0050	<0.0050	<0.010	0.037	34	9.9	<0.0050	<0.0050	0.277	2.16	4.19
Confirmation soil samples collected following the over-excavation of SS-04 and FS-02															
CS-SS-01 @ 3' (40.438827 / -104.722857)	11/01/23	3	26.5	<0.0020	<0.0050	<0.0050	<0.010	0.61	28	7.8	<0.0050	<0.0050	0.179	0.311	1.20
CS-SS-02 @ 3' (40.438845 / -104.722864)	11/01/23	3	2.3	<0.0020	<0.0050	<0.0050	<0.010	0.080	24	5.2	<0.0050	<0.0050	0.233	0.364	1.33
CS-SS-03 @ 3' (40.438853 / -104.722853)	11/01/23	3	1.5	<0.0020	<0.0050	<0.0050	<0.010	0.081	22	4.7	<0.0050	<0.0050	0.139	0.213	0.846
CS-SS-04 @ 3' (40.438846 / -104.722826)	11/01/23	3	5.6	<0.0020	<0.0050	<0.0050	<0.010	0.079	21	5.3	<0.0050	<0.0050	0.275	0.674	2.51
CS-FS-01 @ 3.5' (40.438841 / -104.722852)	11/01/23	3.5	15.8	<0.0020	<0.0050	<0.0050	<0.010	0.081	12	<50	<0.0050	<0.0050	0.166	0.215	0.679
CS-FS-02 @ 3.5' (40.438836 / -104.722828)	11/01/23	3.5	2.2	<0.0020	<0.0050	<0.0050	<0.010	0.081	22	4.6	<0.0050	<0.0050	0.137	0.292	0.993
ECMC = Energy & Carbon Management Commission mg/kg = milligrams per kilogram mmhos/cm = millimhos per centimeter PID = Photoionization Detector ppm-v = parts per million by volume mg/L = milligrams per liter SAR = Sodium Adsoption Ratio Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory MDL and/or reporting limit. Note: Values presented in BOLD contained concentrations exceeding ECMC Table 915-1 Regulatory Limits.															
TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics								1,2,4-TMB = 1,2,4-Trimethylbenzene				MDL = Minimum Detection Limits			
TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics								1,3,5-TMB = 1,3,5-Trimethylbenzene							
TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics															

TABLE 3
PAH ANALYTICAL RESULTS SUMMARY
CS-BITTERSWEET 03-01-13
SEPARATOR RELEASE
40.438853 / -104.722836
SW¼ SEC.36 T6N R66W 6PM
WELD COUNTY, COLORADO
LOCATION ID 430474
SPILL # 485037

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm- v)	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
ECMC Table 915-1 Protection of Groundwater Soil Screening Levels				0.006	0.019	0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	0.0038	1.3
Initial grab samples																		
SS-01 @ 1.5' (40.438783 / -104.722856)	10/17/23	1.5	2.6	<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
SS-02 @ 1.5' (40.438795 / -104.722865)	10/17/23	1.5	2.8	<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-03 @ 1.5' (40.438823 / -104.722852)	10/17/23	1.5	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
SS-04 @ 1.5' (40.438843 / -104.722855)	10/17/23	1.5	11.9	0.0134*	0.0275*	<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-05 @ 1.5' (40.438855 / -104.722850)	10/17/23	1.5	20.6	<0.00500	0.00653	<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-06 @ 1.5' (40.438784 / -104.722840)	10/17/23	1.5	3.7	<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-07 @ 1.5' (40.438800 / -104.722828)	10/17/23	1.5	3.7	<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-08 @ 1.5' (40.438834 / -104.722815)	10/17/23	1.5	3.1	<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 @ 1.5' (40.438853 / -104.722828)	10/17/23	1.5	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
FS-01 @ 2' (40.438797 / -104.722847)	10/17/23	2	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
FS-02 @ 2' (40.438835 / -104.722834)	10/17/23	2	14.7	0.0176*	0.0217*	<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
Confirmation soil samples collected following the over-excavation of SS-04 and FS-02																		
CS-SS-01 @ 3' (40.438827 / -104.722857)	11/01/23	3	26.5	<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-02 @ 3' (40.438845 / -104.722864)	11/01/23	3	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
CS-SS-03 @ 3' (40.438853 / -104.722853)	11/01/23	3	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-04 @ 3' (40.438846 / -104.722826)	11/01/23	3	5.6	<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-01 @ 3.5' (40.438841 / -104.722852)	11/01/23	3.5	15.8	<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 @ 3.5' (40.438836 / -104.722828)	11/01/23	3.5	2.2	<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
ECMC = Energy & Carbon Management Commission mg/kg = milligrams per kilogram ppm-v = parts per million by volume Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit. Note: Values presented in BOLD contained concentrations exceeding ECMC Table 915-1 Regulatory Limits. Values with asterisk (*) exceed ECMC Table 915-1 protection of groundwater soil screening levels for that compound.																		



ATTACHMENT A

Photo Log

CS-Bittersweet 03-01-13

Location ID 430474

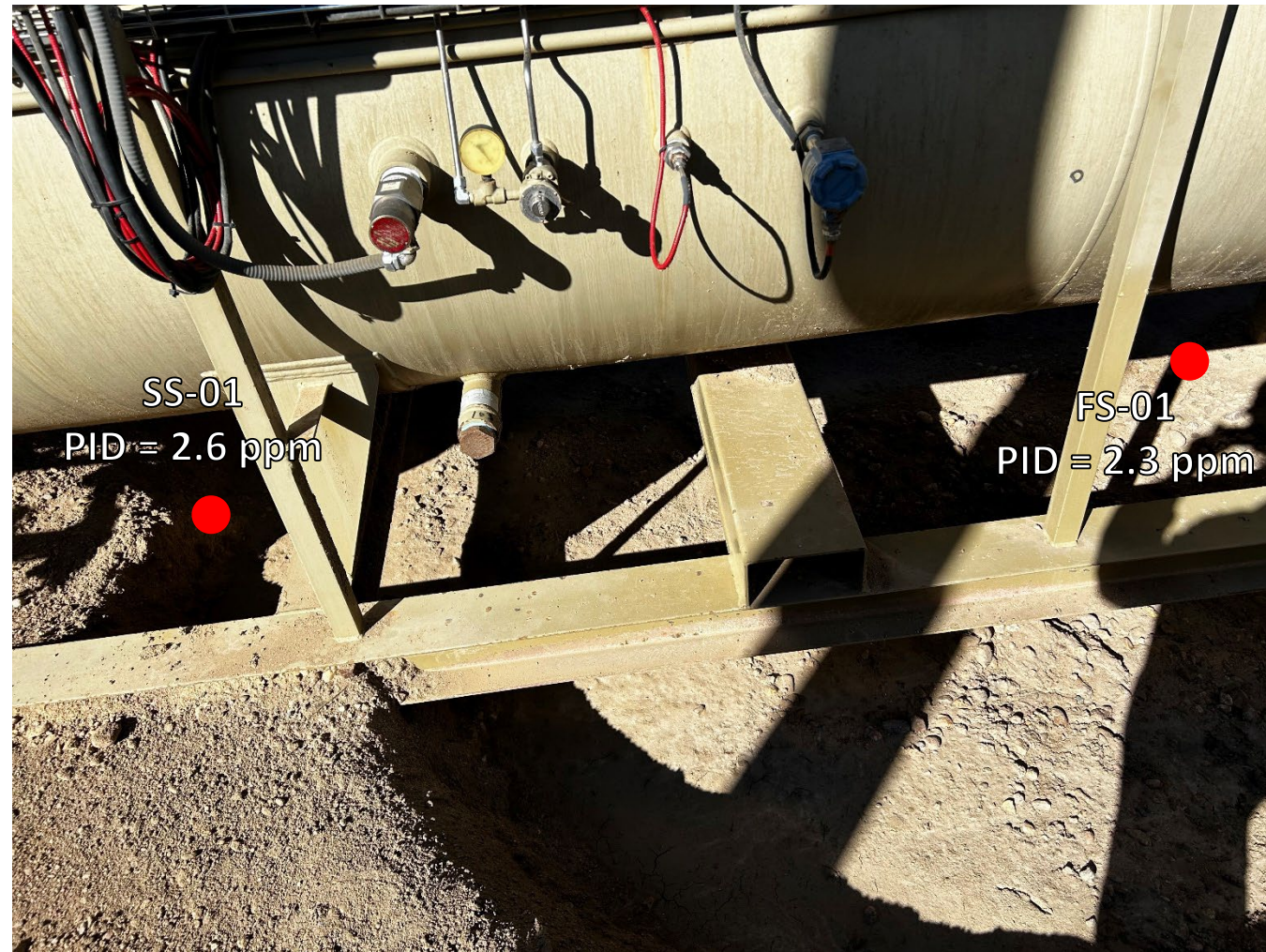
Spill # 485037

Release Assessment

October-November 2023



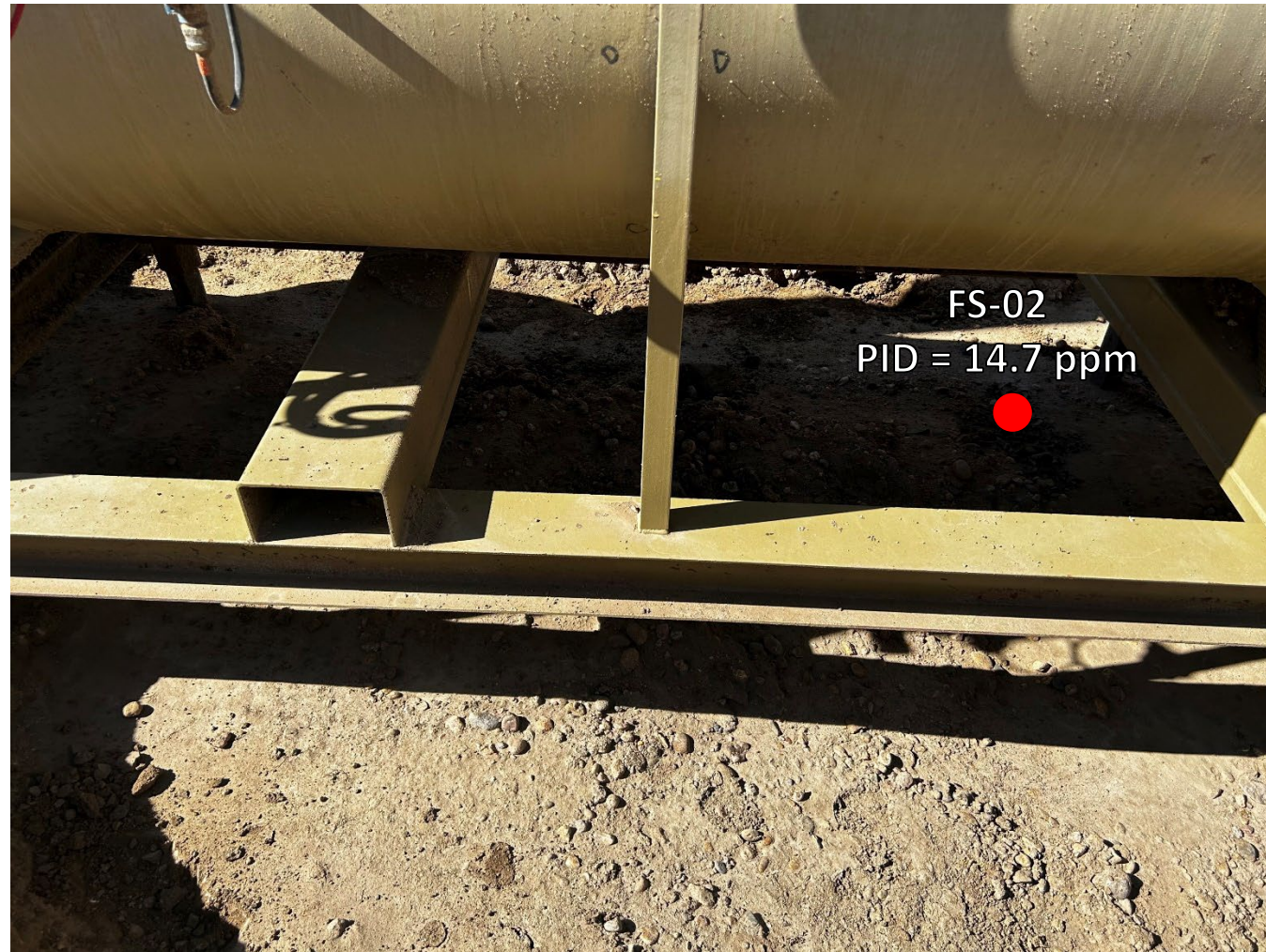
Release Assessment/Confirmation Sampling – 10/17/23



Looking west-northwest

No petroleum hydrocarbon staining or odor observed

Release Assessment/Confirmation Sampling – 10/17/23



Looking west-northwest

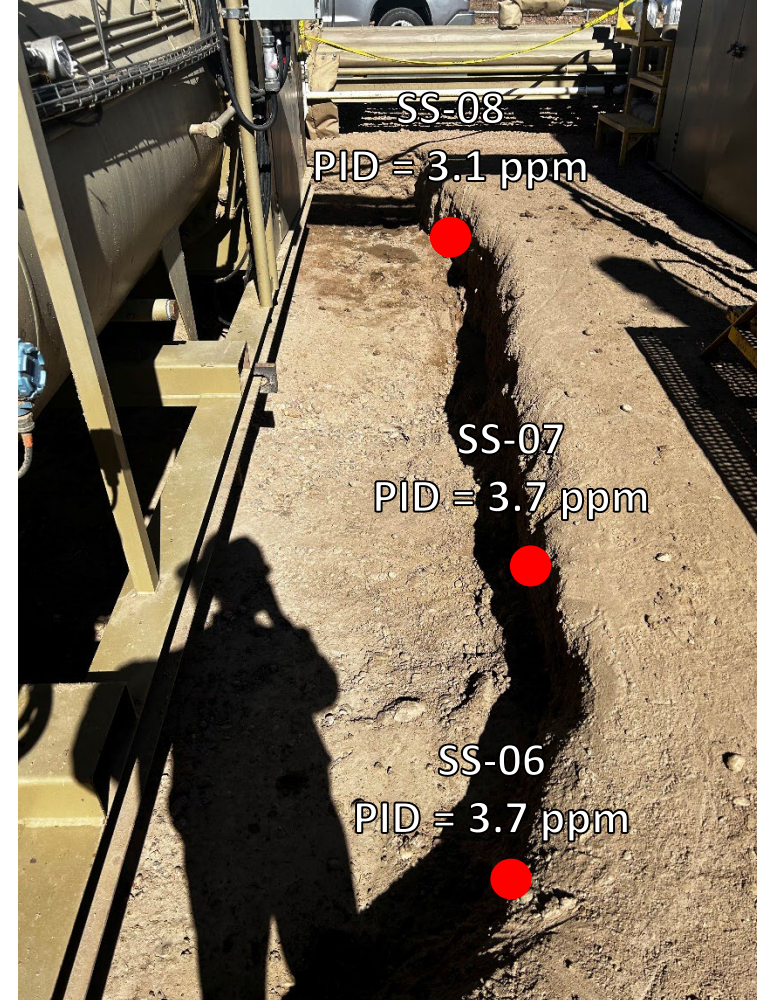
No petroleum hydrocarbon staining or odor observed

Release Assessment/Confirmation Sampling – 10/17/23



Looking north-northeast

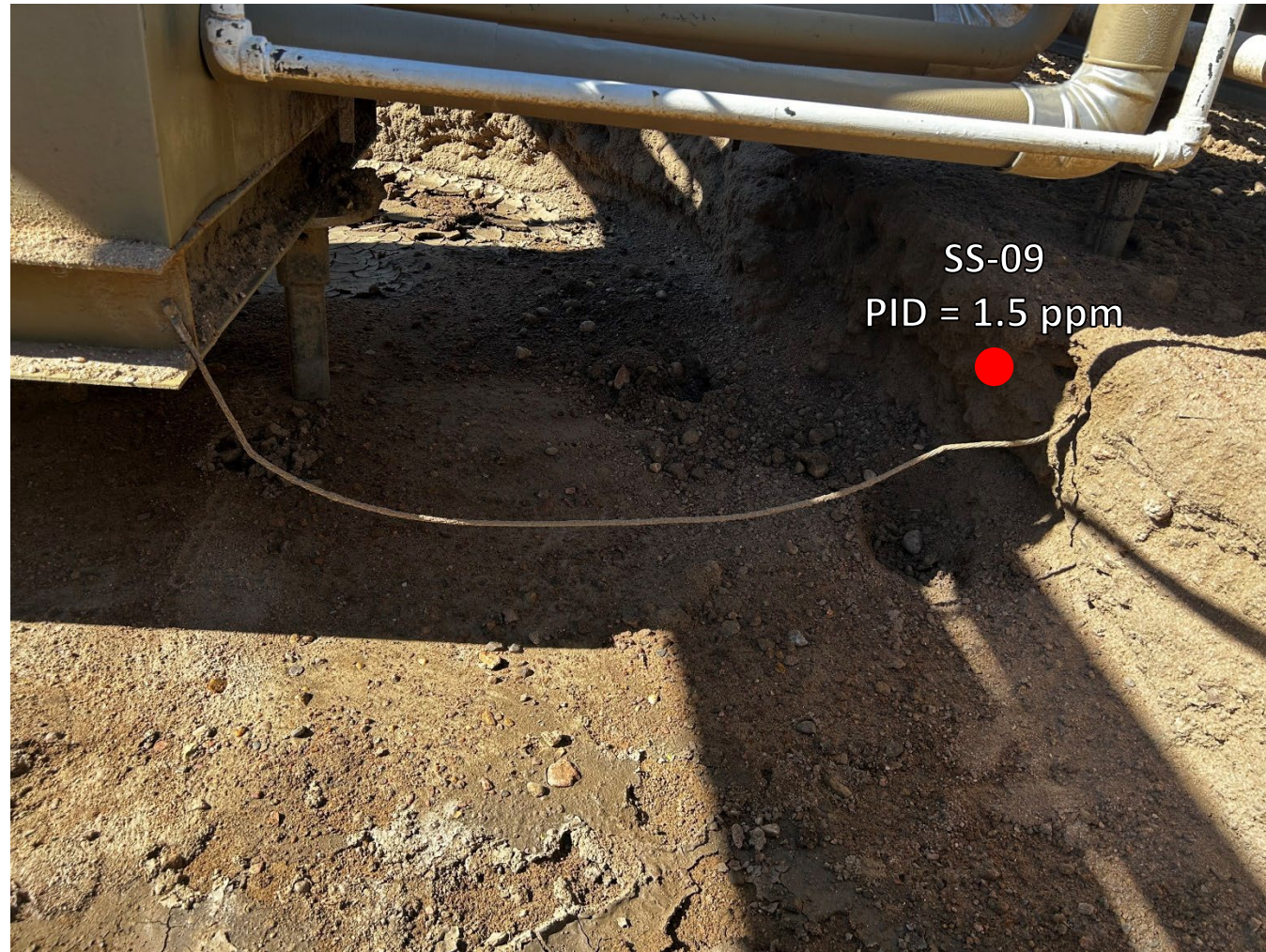
No petroleum hydrocarbon staining or odor observed



Looking north-northeast

No petroleum hydrocarbon staining or odor observed

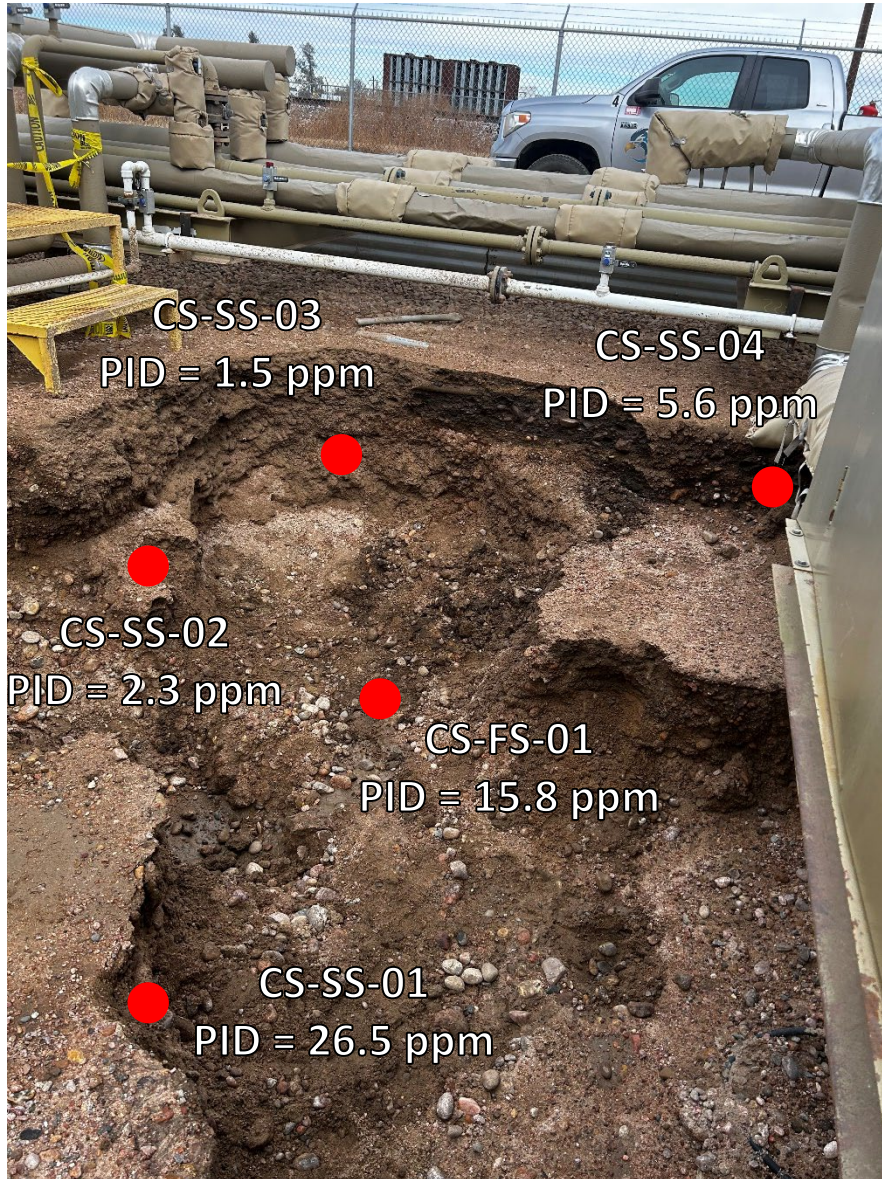
Release Assessment/Confirmation Sampling – 10/17/23



Looking west-northwest

No petroleum hydrocarbon staining or odor observed

Over-Excavation/Confirmation Sampling – 11/01/23



← Looking north-northwest
at over-excavation of SS-04

Looking east-southeast at
over-excavation of FS-02 →

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 25, 2023

Martin Eckert III

Eagle Environmental Consulting

8000 W 44th Ave

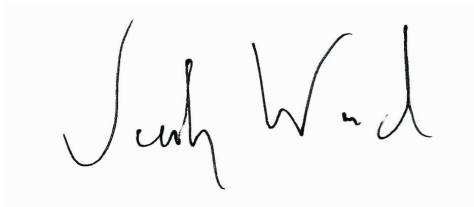
Wheat Ridge, CO 80033

RE: Civitas - CS-Bittersweet 03-01-13

Work Order # 2310300

Enclosed are the results of analyses for samples received by Summit Scientific on 10/17/23 14:28. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury

President



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

Project: Civitas - CS-Bittersweet 03-01-13

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

Reported:
10/25/23 12:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01@1.5'	2310300-01	Soil	10/17/23 11:10	10/17/23 14:28
SS-02@1.5'	2310300-02	Soil	10/17/23 11:12	10/17/23 14:28
SS-03@1.5'	2310300-03	Soil	10/17/23 11:14	10/17/23 14:28
SS-04@1.5'	2310300-04	Soil	10/17/23 11:16	10/17/23 14:28
SS-05@1.5'	2310300-05	Soil	10/17/23 11:18	10/17/23 14:28
SS-06@1.5'	2310300-06	Soil	10/17/23 11:20	10/17/23 14:28
SS-07@1.5'	2310300-07	Soil	10/17/23 11:22	10/17/23 14:28
SS-08@1.5'	2310300-08	Soil	10/17/23 11:24	10/17/23 14:28
SS-09@1.5'	2310300-09	Soil	10/17/23 11:26	10/17/23 14:28
FS-01@2'	2310300-10	Soil	10/17/23 11:28	10/17/23 14:28
FS-02@2'	2310300-11	Soil	10/17/23 11:30	10/17/23 14:28

Summit Scientific

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

SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2310300	

Client: Eagle Environmental Consulting		Send Data To:		Send Invoice To:	
Address: 8000 W 44th Ave		Project Manager: Andrew Newberry		Company: CIVITAS	
City/State/Zip: Wheat Ridge, CO, 80033		E-Mail: anewberry@eagle-environ.com		Project Name/Location:	
Phone: 303-433-0479		Project Name: CS-Bittersweet 03-01-13		AFE#:	
Sampler Name: SL		Project Number:		PO/Billing Codes:	
				Contact: Bill to Costin	

					Preservative				Matrix				Analysis Requested						Special Instructions		
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	G, BTEX, NAPH, THAPS - 8260	DEQ/R20-8015 PAHs - 8270 D5M	EC-9050A	SAR-20B	Boron-Hot Water Soluble				
1	SS-01 @ 1.5'	10/17/23	1110	2						X			X	X	X	X	X				
2	SS-02 @ 1.5'		1112																		
3	SS-03 @ 1.5'		1114																		
4	SS-04 @ 1.5'		1116																		
5	SS-05 @ 1.5'		1118																		
6	SS-06 @ 1.5'		1120																		
7	SS-07 @ 1.5'		1122																		
8	SS-08 @ 1.5'		1124																		
9	SS-09 @ 1.5'		1126																		
10	FS-01 @ 2'		1128																		
11	FS-02 @ 2'		1130																		
12																					
13																					
14																					
15																					

Relinquished by: <u>Sam Jan</u>	Date/Time: <u>10/17/23 / 1420</u>	Received by: <u>V-d</u>	Date/Time: <u>10/17/23 14:28</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>4.5</u>	Corrected Temperature	IR gun #: <u>2</u>	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2310300Client: Engle Civitas Client Project ID: CS-Bittersweet 03-d-13Shipped 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) 4.5 Thermometer # 2

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

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.
V. W. W. W.
Custodian Printed Name

10/17/23 14:28
Date/Time



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

Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
10/25/23 12:16

SS-01@1.5'
2310300-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/23 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0728	10/18/23	10/18/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.020	0.50		"	"	"	"	"	"	J

Date Sampled: **10/17/23 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		116 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.4 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/23 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	13	50	4.3	mg/kg	1	BGJ0731	10/18/23	10/19/23	EPA 8015M	J
C28-C36 (ORO)	6.8	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/17/23 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		108 %		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 - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Martin Eckert III

Reported:

10/25/23 12:16

SS-01@1.5'
2310300-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/23 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0709	10/18/23	10/18/23	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: **10/17/23 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		65.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		66.4 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 11:10**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.203	2.00	0.00690	mg/L	1	BGJ0839	10/20/23	10/24/23	EPA 6020B	J

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

Date Sampled: **10/17/23 11:10**

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 - CS-Bittersweet 03-01-13

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

Reported:
10/25/23 12:16

SS-01@1.5'
2310300-01 (Soil)

Summit Scientific

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

Calcium	309	0.0500	mg/L dry	1	BGJ0789	10/19/23	10/23/23	EPA 6020B
Magnesium	72.1	0.0500	"	"	"	"	"	"
Sodium	190	0.0500	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **10/17/23 11:10**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.50	0.00100		units	1	BGJ0961	10/24/23	10/24/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 11:10**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.1			%	1	BGJ0957	10/24/23	10/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 11:10**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.49	0.0100	0.00100	mmhos/cm	1	BGJ0826	10/20/23	10/21/23	EPA 120.1	

Summit Scientific

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

Project: Civitas - CS-Bittersweet 03-01-13

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

Reported:
10/25/23 12:16

SS-02@1.5'
2310300-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/23 11:12**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0728	10/18/23	10/19/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.028	0.50		"	"	"	"	"	"	J

Date Sampled: **10/17/23 11:12**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		112 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		98.0 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.2 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/23 11:12**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	13	50	4.3	mg/kg	1	BGJ0731	10/18/23	10/19/23	EPA 8015M	J
C28-C36 (ORO)	8.1	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/17/23 11:12**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		123 %		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 - CS-Bittersweet 03-01-13

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

Reported:
10/25/23 12:16

SS-02@1.5'
2310300-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/23 11:12**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0709	10/18/23	10/18/23	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: **10/17/23 11:12**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		44.6 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		41.7 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 11:12**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.295	2.00	0.00690	mg/L	1	BGJ0839	10/20/23	10/24/23	EPA 6020B	J

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

Date Sampled: **10/17/23 11:12**

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 - CS-Bittersweet 03-01-13

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

Reported:
10/25/23 12:16

SS-02@1.5'
2310300-02 (Soil)

Summit Scientific

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

Calcium	152	0.0500	mg/L dry	1	BGJ0789	10/19/23	10/23/23	EPA 6020B
Magnesium	43.0	0.0500	"	"	"	"	"	"
Sodium	214	0.0500	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **10/17/23 11:12**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.81	0.00100		units	1	BGJ0961	10/24/23	10/24/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 11:12**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.1			%	1	BGJ0957	10/24/23	10/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 11:12**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.48	0.0100	0.00100	mmhos/cm	1	BGJ0826	10/20/23	10/21/23	EPA 120.1	

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 - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
10/25/23 12:16

SS-03@1.5'
2310300-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/23 11:14**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0728	10/18/23	10/19/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.029	0.50		"	"	"	"	"	"	J

Date Sampled: **10/17/23 11:14**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		98.8 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		99.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.7 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/23 11:14**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	12	50	4.3	mg/kg	1	BGJ0731	10/18/23	10/19/23	EPA 8015M	J
C28-C36 (ORO)	6.7	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/17/23 11:14**

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

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Civitas - CS-Bittersweet 03-01-13

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

Reported:
10/25/23 12:16

SS-03@1.5'
2310300-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/23 11:14**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0709	10/18/23	10/18/23	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: **10/17/23 11:14**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		73.6 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		68.4 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 11:14**

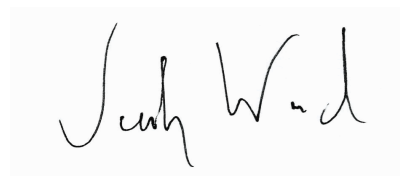
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.193	2.00	0.00690	mg/L	1	BGJ0839	10/20/23	10/24/23	EPA 6020B	J

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

Date Sampled: **10/17/23 11:14**

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 - CS-Bittersweet 03-01-13

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

Reported:
10/25/23 12:16

SS-03@1.5'
2310300-03 (Soil)

Summit Scientific

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

Calcium	67.1	0.0500	mg/L dry	1	BGJ0789	10/19/23	10/23/23	EPA 6020B
Magnesium	17.7	0.0500	"	"	"	"	"	"
Sodium	106	0.0500	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **10/17/23 11:14**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.89	0.00100		units	1	BGJ0961	10/24/23	10/24/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 11:14**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.0			%	1	BGJ0957	10/24/23	10/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 11:14**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.17	0.0100	0.00100	mmhos/cm	1	BGJ0826	10/20/23	10/21/23	EPA 120.1	

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

Project: Civitas - CS-Bittersweet 03-01-13

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

Reported:
10/25/23 12:16

SS-04@1.5'
2310300-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/23 11:16**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0728	10/18/23	10/19/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.024	0.50		"	"	"	"	"	"	J

Date Sampled: **10/17/23 11:16**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		108 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		98.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.6 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/23 11:16**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	34	50	4.3	mg/kg	1	BGJ0731	10/18/23	10/19/23	EPA 8015M	J
C28-C36 (ORO)	10	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/17/23 11:16**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		130 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - CS-Bittersweet 03-01-13

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

Reported:
10/25/23 12:16

SS-04@1.5'
2310300-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/23 11:16**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0709	10/18/23	10/18/23	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	0.0134	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	0.0275	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **10/17/23 11:16**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		27.9 %		40-150		"	"	"	"	S-04
Surrogate: Fluoranthene-d10		31.1 %		40-150		"	"	"	"	S-04

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 11:16**

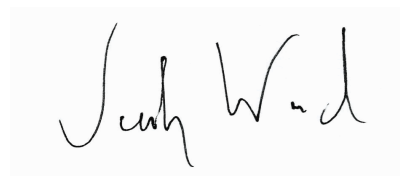
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.195	2.00	0.00690	mg/L	1	BGJ0839	10/20/23	10/24/23	EPA 6020B	J

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

Date Sampled: **10/17/23 11:16**

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 - CS-Bittersweet 03-01-13

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

Reported:
10/25/23 12:16

SS-04@1.5'
2310300-04 (Soil)

Summit Scientific

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

Calcium	90.8	0.0500	mg/L dry	1	BGJ0789	10/19/23	10/23/23	EPA 6020B
Magnesium	25.1	0.0500	"	"	"	"	"	"
Sodium	151	0.0500	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **10/17/23 11:16**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.53	0.00100		units	1	BGJ0961	10/24/23	10/24/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 11:16**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.2			%	1	BGJ0957	10/24/23	10/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 11:16**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.60	0.0100	0.00100	mmhos/cm	1	BGJ0826	10/20/23	10/21/23	EPA 120.1	

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

Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Martin Eckert III

Reported:

10/25/23 12:16

SS-05@1.5'
2310300-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/23 11:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0728	10/18/23	10/19/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.027	0.50		"	"	"	"	"	"	J

Date Sampled: **10/17/23 11:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		92.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.1 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/23 11:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	14	50	4.3	mg/kg	1	BGJ0731	10/18/23	10/19/23	EPA 8015M	J
C28-C36 (ORO)	6.5	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/17/23 11:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		117 %		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 - CS-Bittersweet 03-01-13

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

Reported:
10/25/23 12:16

SS-05@1.5'
2310300-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/23 11:18**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0709	10/18/23	10/18/23	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	0.00653	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **10/17/23 11:18**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		48.9 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		54.7 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 11:18**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.284	2.00	0.00690	mg/L	1	BGJ0839	10/20/23	10/24/23	EPA 6020B	J

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

Date Sampled: **10/17/23 11:18**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - CS-Bittersweet 03-01-13

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

Reported:
10/25/23 12:16

SS-05@1.5'
2310300-05 (Soil)

Summit Scientific

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

Calcium	78.1	0.0500	mg/L dry	1	BGJ0789	10/19/23	10/23/23	EPA 6020B
Magnesium	21.9	0.0500	"	"	"	"	"	"
Sodium	114	0.0500	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **10/17/23 11:18**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.83	0.00100		units	1	BGJ0961	10/24/23	10/24/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 11:18**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.9			%	1	BGJ0957	10/24/23	10/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 11:18**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.26	0.0100	0.00100	mmhos/cm	1	BGJ0826	10/20/23	10/21/23	EPA 120.1	

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

Project: Civitas - CS-Bittersweet 03-01-13

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

Reported:
10/25/23 12:16

SS-06@1.5'
2310300-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/23 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0728	10/18/23	10/19/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.027	0.50		"	"	"	"	"	"	J

Date Sampled: **10/17/23 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		112 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		103 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.8 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/23 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	28	50	4.3	mg/kg	1	BGJ0731	10/18/23	10/19/23	EPA 8015M	J
C28-C36 (ORO)	12	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/17/23 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		126 %		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 - CS-Bittersweet 03-01-13

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

Reported:
10/25/23 12:16

SS-06@1.5'
2310300-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/23 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0709	10/18/23	10/18/23	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: **10/17/23 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		65.5 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		68.0 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 11:20**

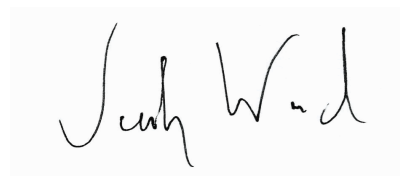
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.193	2.00	0.00690	mg/L	1	BGJ0839	10/20/23	10/24/23	EPA 6020B	J

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

Date Sampled: **10/17/23 11:20**

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

Summit Scientific



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Wheat Ridge CO, 80033

Project: Civitas - CS-Bittersweet 03-01-13

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

Reported:
10/25/23 12:16

SS-06@1.5'
2310300-06 (Soil)

Summit Scientific

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

Calcium	159	0.0500	mg/L dry	1	BGJ0789	10/19/23	10/23/23	EPA 6020B
Magnesium	45.4	0.0500	"	"	"	"	"	"
Sodium	120	0.0500	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **10/17/23 11:20**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.11	0.00100		units	1	BGJ0961	10/24/23	10/24/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 11:20**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.4			%	1	BGJ0957	10/24/23	10/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 11:20**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.88	0.0100	0.00100	mmhos/cm	1	BGJ0826	10/20/23	10/21/23	EPA 120.1	

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Wheat Ridge CO, 80033

Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
10/25/23 12:16

SS-07@1.5'
2310300-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/23 11:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0728	10/18/23	10/19/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.026	0.50		"	"	"	"	"	"	J

Date Sampled: **10/17/23 11:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		99.4 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		98.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/23 11:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	14	50	4.3	mg/kg	1	BGJ0731	10/18/23	10/19/23	EPA 8015M	J
C28-C36 (ORO)	7.5	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/17/23 11:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		123 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - CS-Bittersweet 03-01-13

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

Reported:
10/25/23 12:16

SS-07@1.5'
2310300-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/23 11:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0709	10/18/23	10/18/23	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: **10/17/23 11:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		59.9 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		54.7 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 11:22**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.193	2.00	0.00690	mg/L	1	BGJ0839	10/20/23	10/24/23	EPA 6020B	J

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

Date Sampled: **10/17/23 11:22**

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 - CS-Bittersweet 03-01-13

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

Reported:
10/25/23 12:16

SS-07@1.5'
2310300-07 (Soil)

Summit Scientific

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

Calcium	211	0.0500	mg/L dry	1	BGJ0789	10/19/23	10/23/23	EPA 6020B
Magnesium	50.1	0.0500	"	"	"	"	"	"
Sodium	85.2	0.0500	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **10/17/23 11:22**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.34	0.00100		units	1	BGJ0961	10/24/23	10/24/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 11:22**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.5			%	1	BGJ0957	10/24/23	10/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 11:22**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.95	0.0100	0.00100	mmhos/cm	1	BGJ0826	10/20/23	10/21/23	EPA 120.1	

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - CS-Bittersweet 03-01-13

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

Reported:
10/25/23 12:16

SS-08@1.5'
2310300-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/23 11:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0728	10/18/23	10/19/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.028	0.50		"	"	"	"	"	"	J

Date Sampled: **10/17/23 11:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		97.4 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.0 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/23 11:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	14	50	4.3	mg/kg	1	BGJ0731	10/18/23	10/19/23	EPA 8015M	J
C28-C36 (ORO)	5.9	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/17/23 11:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		138 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Wheat Ridge CO, 80033

Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Martin Eckert III

Reported:

10/25/23 12:16

SS-08@1.5'
2310300-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/23 11:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0709	10/18/23	10/18/23	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: **10/17/23 11:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		59.0 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		59.1 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 11:24**

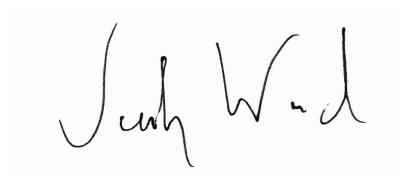
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.188	2.00	0.00690	mg/L	1	BGJ0839	10/20/23	10/24/23	EPA 6020B	J

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

Date Sampled: **10/17/23 11:24**

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

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Wheat Ridge CO, 80033

Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
10/25/23 12:16

SS-08@1.5'
2310300-08 (Soil)

Summit Scientific

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

Calcium	77.2	0.0500	mg/L dry	1	BGJ0789	10/19/23	10/23/23	EPA 6020B
Magnesium	19.9	0.0500	"	"	"	"	"	"
Sodium	64.2	0.0500	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **10/17/23 11:24**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.64	0.00100		units	1	BGJ0961	10/24/23	10/24/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 11:24**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.7			%	1	BGJ0957	10/24/23	10/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 11:24**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.997	0.0100	0.00100	mmhos/cm	1	BGJ0826	10/20/23	10/21/23	EPA 120.1	

Summit Scientific

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Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
10/25/23 12:16

SS-09@1.5'
2310300-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/23 11:26**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0728	10/18/23	10/19/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.031	0.50		"	"	"	"	"	"	J

Date Sampled: **10/17/23 11:26**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		101 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.3 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/23 11:26**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	11	50	4.3	mg/kg	1	BGJ0731	10/18/23	10/19/23	EPA 8015M	J
C28-C36 (ORO)	5.4	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/17/23 11:26**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		158 %		30-150		"	"	"	"	S-07

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Civitas - CS-Bittersweet 03-01-13

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

Reported:
10/25/23 12:16

SS-09@1.5'
2310300-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/23 11:26**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0709	10/18/23	10/18/23	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: **10/17/23 11:26**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		75.2 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		68.9 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 11:26**

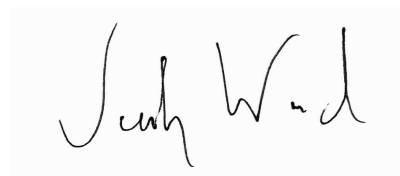
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.208	2.00	0.00690	mg/L	1	BGJ0839	10/20/23	10/24/23	EPA 6020B	J

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

Date Sampled: **10/17/23 11:26**

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 - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
10/25/23 12:16

SS-09@1.5'
2310300-09 (Soil)

Summit Scientific

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

Calcium	82.0	0.0500	mg/L dry	1	BGJ0789	10/19/23	10/23/23	EPA 6020B
Magnesium	20.5	0.0500	"	"	"	"	"	"
Sodium	84.1	0.0500	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **10/17/23 11:26**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.11	0.00100		units	1	BGJ0961	10/24/23	10/24/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 11:26**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.8			%	1	BGJ0957	10/24/23	10/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 11:26**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.18	0.0100	0.00100	mmhos/cm	1	BGJ0826	10/20/23	10/21/23	EPA 120.1	

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

Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
10/25/23 12:16

FS-01@2'
2310300-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/23 11:28**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0728	10/18/23	10/19/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.022	0.50		"	"	"	"	"	"	J

Date Sampled: **10/17/23 11:28**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		109 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		98.9 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.2 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/23 11:28**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	17	50	4.3	mg/kg	1	BGJ0731	10/18/23	10/19/23	EPA 8015M	J
C28-C36 (ORO)	6.8	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/17/23 11:28**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		155 %		30-150		"	"	"	"	S-07

PAH by EPA Method 8270D SIM

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Wheat Ridge CO, 80033

Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Martin Eckert III

Reported:

10/25/23 12:16

FS-01@2'
2310300-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/23 11:28**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0709	10/18/23	10/18/23	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: **10/17/23 11:28**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		71.3 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		68.0 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 11:28**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.216	2.00	0.00690	mg/L	1	BGJ0839	10/20/23	10/24/23	EPA 6020B	J

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

Date Sampled: **10/17/23 11:28**

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 - CS-Bittersweet 03-01-13

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

Reported:
10/25/23 12:16

FS-01@2'
2310300-10 (Soil)

Summit Scientific

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

Calcium	107	0.0500	mg/L dry	1	BGJ0789	10/19/23	10/23/23	EPA 6020B
Magnesium	29.6	0.0500	"	"	"	"	"	"
Sodium	90.2	0.0500	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **10/17/23 11:28**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.94	0.00100		units	1	BGJ0961	10/24/23	10/24/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 11:28**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.5			%	1	BGJ0957	10/24/23	10/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 11:28**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.36	0.0100	0.00100	mmhos/cm	1	BGJ0826	10/20/23	10/21/23	EPA 120.1	

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Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Martin Eckert III

Reported:
10/25/23 12:16

FS-02@2'
2310300-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ0728	10/18/23	10/19/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.037	0.50		"	"	"	"	"	"	J

Date Sampled: **10/17/23 11:30**

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		94.4 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	34	50	4.3	mg/kg	1	BGJ0731	10/18/23	10/19/23	EPA 8015M	J
C28-C36 (ORO)	9.9	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/17/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		152 %		30-150		"	"	"	"	S-07

PAH by EPA Method 8270D SIM

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

Project: Civitas - CS-Bittersweet 03-01-13

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

Reported:
10/25/23 12:16

FS-02@2'
2310300-11 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ0709	10/18/23	10/18/23	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	0.0176	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	0.0217	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **10/17/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		70.4 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		65.8 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.277	2.00	0.00690	mg/L	1	BGJ0839	10/20/23	10/24/23	EPA 6020B	J

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

Date Sampled: **10/17/23 11:30**

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

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Wheat Ridge CO, 80033

Project: Civitas - CS-Bittersweet 03-01-13

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

Reported:
10/25/23 12:16

FS-02@2'
2310300-11 (Soil)

Summit Scientific

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

Calcium	118	0.0500	mg/L dry	1	BGJ0789	10/19/23	10/23/23	EPA 6020B
Magnesium	33.6	0.0500	"	"	"	"	"	"
Sodium	207	0.0500	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **10/17/23 11:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.19	0.00100		units	1	BGJ0961	10/24/23	10/24/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/23 11:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.0			%	1	BGJ0957	10/24/23	10/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/23 11:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.16	0.0100	0.00100	mmhos/cm	1	BGJ0826	10/20/23	10/21/23	EPA 120.1	

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Project: Civitas - CS-Bittersweet 03-01-13

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

Reported:
10/25/23 12:16

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 BGJ0728 - EPA 5030 Soil MS

Blank (BGJ0728-BLK1)

Prepared & Analyzed: 10/18/23

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	0.0431		"	0.0400		108	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		101	50-150			

LCS (BGJ0728-BS1)

Prepared & Analyzed: 10/18/23

Benzene	0.106	0.0020	mg/kg	0.100		106	70-130			
Toluene	0.105	0.0050	"	0.100		105	70-130			
Ethylbenzene	0.106	0.0050	"	0.100		106	70-130			
m,p-Xylene	0.211	0.010	"	0.200		105	70-130			
o-Xylene	0.102	0.0050	"	0.100		102	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	0.0810	0.0038	"	0.100		81.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0431		"	0.0400		108	50-150			
Surrogate: Toluene-d8	0.0407		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		100	50-150			

Matrix Spike (BGJ0728-MS1)

Source: 2310300-01

Prepared & Analyzed: 10/18/23

Benzene	0.0996	0.0020	mg/kg	0.100	ND	99.6	70-130			
Toluene	0.0972	0.0050	"	0.100	ND	97.2	70-130			
Ethylbenzene	0.0960	0.0050	"	0.100	ND	96.0	70-130			
m,p-Xylene	0.191	0.010	"	0.200	ND	95.5	70-130			
o-Xylene	0.0936	0.0050	"	0.100	ND	93.6	70-130			
1,2,4-Trimethylbenzene	0.0914	0.0050	"	0.100	ND	91.4	70-130			
1,3,5-Trimethylbenzene	0.0916	0.0050	"	0.100	ND	91.6	70-130			
Naphthalene	0.0828	0.0038	"	0.100	ND	82.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0431		"	0.0400		108	50-150			
Surrogate: Toluene-d8	0.0396		"	0.0400		99.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0412		"	0.0400		103	50-150			

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - CS-Bittersweet 03-01-13

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

Reported:
10/25/23 12:16

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 BGJ0728 - EPA 5030 Soil MS

Matrix Spike Dup (BGJ0728-MSD1)		Source: 2310300-01			Prepared & Analyzed: 10/18/23					
Benzene	0.0988	0.0020	mg/kg	0.100	ND	98.8	70-130	0.847	30	
Toluene	0.0948	0.0050	"	0.100	ND	94.8	70-130	2.47	30	
Ethylbenzene	0.0941	0.0050	"	0.100	ND	94.1	70-130	1.93	30	
m,p-Xylene	0.189	0.010	"	0.200	ND	94.3	70-130	1.23	30	
o-Xylene	0.0913	0.0050	"	0.100	ND	91.3	70-130	2.56	30	
1,2,4-Trimethylbenzene	0.0886	0.0050	"	0.100	ND	88.6	70-130	3.03	30	
1,3,5-Trimethylbenzene	0.0887	0.0050	"	0.100	ND	88.7	70-130	3.26	30	
Naphthalene	0.0838	0.0038	"	0.100	ND	83.8	70-130	1.19	30	
Surrogate: 1,2-Dichloroethane-d4		0.0504	"	0.0400		126	50-150			
Surrogate: Toluene-d8		0.0390	"	0.0400		97.5	50-150			
Surrogate: 4-Bromofluorobenzene		0.0419	"	0.0400		105	50-150			

Summit Scientific

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - CS-Bittersweet 03-01-13

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

Reported:
10/25/23 12:16

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 BGJ0731 - EPA 3550A

Blank (BGJ0731-BLK1)

Prepared: 10/18/23 Analyzed: 10/19/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	14.9		"	12.5		119	30-150			

LCS (BGJ0731-BS1)

Prepared: 10/18/23 Analyzed: 10/19/23

C10-C28 (DRO)	414	50	mg/kg	500		82.9	70-130			
Surrogate: o-Terphenyl	15.6		"	12.5		125	30-150			

Matrix Spike (BGJ0731-MS1)

Source: 2310300-01

Prepared: 10/18/23 Analyzed: 10/19/23

C10-C28 (DRO)	417	50	mg/kg	500	13.0	80.9	70-130			
Surrogate: o-Terphenyl	16.2		"	12.5		130	30-150			

Matrix Spike Dup (BGJ0731-MSD1)

Source: 2310300-01

Prepared: 10/18/23 Analyzed: 10/19/23

C10-C28 (DRO)	418	50	mg/kg	500	13.0	81.1	70-130	0.197	20	
Surrogate: o-Terphenyl	15.9		"	12.5		127	30-150			

Summit Scientific

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



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

Project: Civitas - CS-Bittersweet 03-01-13

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

Reported:
10/25/23 12:16

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 BGJ0709 - EPA 5030 Soil MS

Blank (BGJ0709-BLK1)

Prepared & Analyzed: 10/18/23

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	0.0379		"	0.0333		114	40-150			
Surrogate: Fluoranthene-d10	0.0321		"	0.0333		96.2	40-150			

LCS (BGJ0709-BS1)

Prepared & Analyzed: 10/18/23

Acenaphthene	0.0296	0.00500	mg/kg	0.0333		88.7	31-137			
Anthracene	0.0336	0.00500	"	0.0333		101	30-120			
Benzo (a) anthracene	0.0311	0.00500	"	0.0333		93.2	30-120			
Benzo (a) pyrene	0.0303	0.00500	"	0.0333		90.8	30-120			
Benzo (b) fluoranthene	0.0304	0.00500	"	0.0333		91.2	30-120			
Benzo (k) fluoranthene	0.0319	0.00500	"	0.0333		95.7	30-120			
Chrysene	0.0330	0.00500	"	0.0333		99.1	30-120			
Dibenz (a,h) anthracene	0.0316	0.00500	"	0.0333		94.9	30-120			
Fluoranthene	0.0328	0.00500	"	0.0333		98.4	30-120			
Fluorene	0.0271	0.00500	"	0.0333		81.2	30-120			
Indeno (1,2,3-cd) pyrene	0.0393	0.00500	"	0.0333		118	30-120			
Pyrene	0.0369	0.00500	"	0.0333		111	35-142			
1-Methylnaphthalene	0.0389	0.00500	"	0.0333		117	35-142			
2-Methylnaphthalene	0.0400	0.00500	"	0.0333		120	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0293		"	0.0333		88.0	40-150			
Surrogate: Fluoranthene-d10	0.0334		"	0.0333		100	40-150			

Summit Scientific

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

Project: Civitas - CS-Bittersweet 03-01-13

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

Reported:
10/25/23 12:16

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 BGJ0709 - EPA 5030 Soil MS

Matrix Spike (BGJ0709-MS1)

Source: 2310300-01

Prepared & Analyzed: 10/18/23

Acenaphthene	0.0150	0.00500	mg/kg	0.0333	ND	45.1	31-137				
Anthracene	0.0194	0.00500	"	0.0333	ND	58.3	30-120				
Benzo (a) anthracene	0.0186	0.00500	"	0.0333	ND	55.8	30-120				
Benzo (a) pyrene	0.0228	0.00500	"	0.0333	ND	68.5	30-120				
Benzo (b) fluoranthene	0.0225	0.00500	"	0.0333	ND	67.5	30-120				
Benzo (k) fluoranthene	0.0229	0.00500	"	0.0333	ND	68.7	30-120				
Chrysene	0.0199	0.00500	"	0.0333	ND	59.8	30-120				
Dibenz (a,h) anthracene	0.0216	0.00500	"	0.0333	ND	64.8	30-120				
Fluoranthene	0.0189	0.00500	"	0.0333	ND	56.6	30-120				
Fluorene	0.0212	0.00500	"	0.0333	ND	63.5	30-120				
Indeno (1,2,3-cd) pyrene	0.0256	0.00500	"	0.0333	ND	76.8	30-120				
Pyrene	0.0244	0.00500	"	0.0333	ND	73.1	35-142				
1-Methylnaphthalene	0.0244	0.00500	"	0.0333	ND	73.2	15-130				
2-Methylnaphthalene	0.0237	0.00500	"	0.0333	ND	71.2	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0174		"	0.0333		52.3	40-150				
Surrogate: Fluoranthene-d10	0.0188		"	0.0333		56.4	40-150				

Matrix Spike Dup (BGJ0709-MSD1)

Source: 2310300-01

Prepared & Analyzed: 10/18/23

Acenaphthene	0.0200	0.00500	mg/kg	0.0333	ND	60.0	31-137	28.3	30
Anthracene	0.0246	0.00500	"	0.0333	ND	73.7	30-120	23.3	30
Benzo (a) anthracene	0.0235	0.00500	"	0.0333	ND	70.6	30-120	23.5	30
Benzo (a) pyrene	0.0222	0.00500	"	0.0333	ND	66.5	30-120	3.02	30
Benzo (b) fluoranthene	0.0217	0.00500	"	0.0333	ND	65.0	30-120	3.69	30
Benzo (k) fluoranthene	0.0220	0.00500	"	0.0333	ND	66.1	30-120	3.84	30
Chrysene	0.0240	0.00500	"	0.0333	ND	72.1	30-120	18.6	30
Dibenz (a,h) anthracene	0.0259	0.00500	"	0.0333	ND	77.7	30-120	18.0	30
Fluoranthene	0.0235	0.00500	"	0.0333	ND	70.5	30-120	21.8	30
Fluorene	0.0218	0.00500	"	0.0333	ND	65.4	30-120	2.90	30
Indeno (1,2,3-cd) pyrene	0.0250	0.00500	"	0.0333	ND	75.1	30-120	2.28	30
Pyrene	0.0292	0.00500	"	0.0333	ND	87.6	35-142	18.0	30
1-Methylnaphthalene	0.0327	0.00500	"	0.0333	ND	98.0	15-130	29.1	50
2-Methylnaphthalene	0.0337	0.00500	"	0.0333	ND	101	15-130	34.8	50
Surrogate: 2-Methylnaphthalene-d10	0.0240		"	0.0333		72.1	40-150		
Surrogate: Fluoranthene-d10	0.0236		"	0.0333		70.7	40-150		

Summit Scientific

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

Project: Civitas - CS-Bittersweet 03-01-13

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

Reported:
10/25/23 12:16

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 BGJ0839 - EPA 3050B

Blank (BGJ0839-BLK1)

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

Boron ND 2.00 mg/L

LCS (BGJ0839-BS1)

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

Boron 4.81 2.00 mg/L 5.00 96.1 80-120

Duplicate (BGJ0839-DUP1)

Source: 2310295-01

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

Boron 0.477 2.00 mg/L 0.489 2.45 20 J

Matrix Spike (BGJ0839-MS1)

Source: 2310295-01

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

Boron 4.26 2.00 mg/L 5.00 0.489 75.4 75-125

Matrix Spike Dup (BGJ0839-MSD1)

Source: 2310295-01

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

Boron 4.24 2.00 mg/L 5.00 0.489 75.0 75-125 0.460 25

Summit Scientific

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

Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Martin Eckert III

Reported:

10/25/23 12:16

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

Batch BGJ0789 - General Preparation

Blank (BGJ0789-BLK1)

Prepared: 10/19/23 Analyzed: 10/23/23

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

LCS (BGJ0789-BS1)

Prepared: 10/19/23 Analyzed: 10/23/23

Calcium	5.21	0.0500	mg/L wet	5.00	104	70-130
Magnesium	5.07	0.0500	"	5.00	101	70-130
Sodium	5.47	0.0500	"	5.00	109	70-130

Summit Scientific

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

Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Martin Eckert III

Reported:

10/25/23 12:16

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 BGJ0957 - General Preparation

Duplicate (BGJ0957-DUP1)

Source: 2310116-05

Prepared & Analyzed: 10/24/23

% Solids	98.0	%	98.1	0.0873	20
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Summit Scientific

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



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

Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Martin Eckert III

Reported:

10/25/23 12:16

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 BGJ0826 - General Preparation

Blank (BGJ0826-BLK1)

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

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGJ0826-BS1)

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

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

Duplicate (BGJ0826-DUP1)

Source: 2310266-01

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

Specific Conductance (EC) 0.773 0.0100 mmhos/cm 0.773 0.00 20

Summit Scientific

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

Project: Civitas - CS-Bittersweet 03-01-13

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

Reported:
10/25/23 12:16

Notes and Definitions

S-07	The surrogate recovery was outside acceptance limits indicating a potential high bias. The sample did not exhibit concentrations above reporting level for analytes represented by this surrogate. Data quality is not affected.
S-04	A sample matrix effect prevented complete surrogate 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 13, 2023

Andrew Newberry

Eagle Environmental Consulting

8000 W 44th Ave

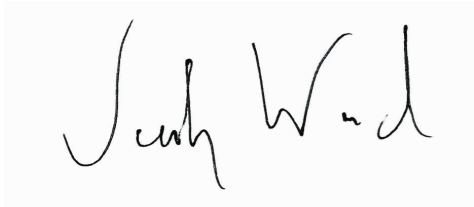
Wheat Ridge, CO 80033

RE: Civitas - CS-Bittersweet 03-01-13

Work Order # 2311016

Enclosed are the results of analyses for samples received by Summit Scientific on 11/01/23 18:07. 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 - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/13/23 13:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS-SS-01@3'	2311016-01	Soil	11/01/23 12:20	11/01/23 18:07
CS-SS-02@3'	2311016-02	Soil	11/01/23 12:22	11/01/23 18:07
CS-SS-03@3'	2311016-03	Soil	11/01/23 12:24	11/01/23 18:07
CS-SS-04@3'	2311016-04	Soil	11/01/23 12:26	11/01/23 18:07
CS-FS-01@3.5'	2311016-05	Soil	11/01/23 12:28	11/01/23 18:07
CS-FS-02@3.5'	2311016-06	Soil	11/01/23 12:30	11/01/23 18:07

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
2311014	

Send Data To:		Send Invoice To:	
Client: Eagle Environmental Consulting	Project Manager: Andrew Newberry	Company: CIVITAS	
Address: 8000 W 44th Ave	E-Mail: anewberry@eagle-enviro.com	Project Name/Location:	
City/State/Zip: Wheat Ridge, CO, 80033		AFE#:	
Phone: 303-433-0474	Project Name: CS-Bittersweet 03-01-13	PO/Billing Codes:	
Sampler Name: SL	Project Number:	Contact: Bill to Costin	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Analysis Requested										Special Instructions
					HCl	HNO3	None	Other	Water	Soil		Other	BTX, NAPH, GRO, THCS - RUCOD	DRO/RO - 9015	PAHS - 8270 B SIM	Boron - Hot Water Soluble	EC - 9050 A	SAR - 2013				
1	CS-SS-01@3'	11/1/23	1220	2						X			X	X	X	X	X	X				MDIs Needed
2	CS-SS-02@3'		1222																			
3	CS-SS-03@3'		1224																			
4	CS-SS-04@3'		1226																			
5	CS-FS-01@3.5'		1228																			
6	CS-FS-02@3.5'		1230																			
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						

Relinquished by: Sam Leno	Date/Time: 11/1/23 1800	Received by: [Signature]	Date/Time: 11/1/23 18:07	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: 7.2°C	Corrected Temperature:	IR gun #: 02	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2311014Client: Eagle environmental consulting Client Project ID: CS-Bittersweet 03-01-13Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 7.2^u Thermometer # 02

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

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.


 Custodian Printed Name

11/1/23 10:07
 Date/Time



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

Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/13/23 13:46

CS-SS-01@3'
2311016-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGK0076	11/02/23	11/03/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.61	0.50		"	"	"	"	"	"	

Date Sampled: **11/01/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		105 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		99.5 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	28	50	4.3	mg/kg	1	BGK0078	11/02/23	11/03/23	EPA 8015M	J
C28-C36 (ORO)	7.8	50	4.3	"	"	"	"	"	"	J

Date Sampled: **11/01/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		72.0 %		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 - CS-Bittersweet 03-01-13

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/13/23 13:46

CS-SS-01@3'
2311016-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/01/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGK0073	11/02/23	11/03/23	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: **11/01/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		56.5 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		58.9 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/23 12:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.179	2.00	0.00690	mg/L	1	BGK0221	11/07/23	11/08/23	EPA 6020B	J

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

Date Sampled: **11/01/23 12:20**

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 - CS-Bittersweet 03-01-13

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/13/23 13:46

CS-SS-01@3'
2311016-01 (Soil)

Summit Scientific

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

Calcium	61.1	0.0500	mg/L dry	1	BGK0138	11/03/23	11/07/23	EPA 6020B
Magnesium	10.0	0.0500	"	"	"	"	"	"
Sodium	38.3	0.0500	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **11/01/23 12:20**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.20	0.00100		units	1	BGK0281	11/08/23	11/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/23 12:20**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.7			%	1	BGK0222	11/07/23	11/07/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/23 12:20**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.311	0.0100	0.00100	mmhos/cm	1	BGK0150	11/06/23	11/06/23	EPA 120.1	

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/13/23 13:46

CS-SS-02@3'
2311016-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/23 12:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGK0076	11/02/23	11/03/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.080	0.50		"	"	"	"	"	"	J

Date Sampled: **11/01/23 12:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		104 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		99.5 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.1 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/23 12:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	24	50	4.3	mg/kg	1	BGK0078	11/02/23	11/03/23	EPA 8015M	J
C28-C36 (ORO)	5.2	50	4.3	"	"	"	"	"	"	J

Date Sampled: **11/01/23 12:22**

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

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/13/23 13:46

CS-SS-02@3'
2311016-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/01/23 12:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGK0073	11/02/23	11/03/23	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: **11/01/23 12:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		43.4 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		44.9 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/23 12:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.233	2.00	0.00690	mg/L	1	BGK0221	11/07/23	11/08/23	EPA 6020B	J

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

Date Sampled: **11/01/23 12:22**

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

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Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/13/23 13:46

CS-SS-02@3'
2311016-02 (Soil)

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

Calcium	35.0	0.0500	mg/L dry	1	BGK0138	11/03/23	11/07/23	EPA 6020B
Magnesium	7.76	0.0500	"	"	"	"	"	"
Sodium	33.5	0.0500	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **11/01/23 12:22**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.33	0.00100		units	1	BGK0281	11/08/23	11/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/23 12:22**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.4			%	1	BGK0222	11/07/23	11/07/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/23 12:22**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.364	0.0100	0.00100	mmhos/cm	1	BGK0150	11/06/23	11/06/23	EPA 120.1	

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Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/13/23 13:46

CS-SS-03@3'
2311016-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/23 12:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGK0076	11/02/23	11/03/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.081	0.50		"	"	"	"	"	"	J

Date Sampled: **11/01/23 12:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		101 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		97.0 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.6 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/23 12:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	22	50	4.3	mg/kg	1	BGK0078	11/02/23	11/03/23	EPA 8015M	J
C28-C36 (ORO)	4.7	50	4.3	"	"	"	"	"	"	J

Date Sampled: **11/01/23 12:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		78.1 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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8000 W 44th Ave
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Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/13/23 13:46

CS-SS-03@3'
2311016-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/01/23 12:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGK0073	11/02/23	11/03/23	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: **11/01/23 12:24**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		61.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		60.9 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/23 12:24**

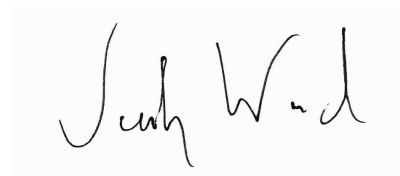
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.139	2.00	0.00690	mg/L	1	BGK0221	11/07/23	11/08/23	EPA 6020B	J

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

Date Sampled: **11/01/23 12:24**

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

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Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/13/23 13:46

CS-SS-03@3'
2311016-03 (Soil)

Summit Scientific

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

Calcium	30.6	0.0500	mg/L dry	1	BGK0138	11/03/23	11/07/23	EPA 6020B
Magnesium	7.15	0.0500	"	"	"	"	"	"
Sodium	20.0	0.0500	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **11/01/23 12:24**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.846	0.00100		units	1	BGK0281	11/08/23	11/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/23 12:24**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.9			%	1	BGK0222	11/07/23	11/07/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/23 12:24**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.213	0.0100	0.00100	mmhos/cm	1	BGK0150	11/06/23	11/06/23	EPA 120.1	

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Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/13/23 13:46

CS-SS-04@3'
2311016-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/23 12:26**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGK0076	11/02/23	11/03/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.079	0.50		"	"	"	"	"	"	J

Date Sampled: **11/01/23 12:26**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		105 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		99.7 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.7 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/23 12:26**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	21	50	4.3	mg/kg	1	BGK0078	11/02/23	11/03/23	EPA 8015M	J
C28-C36 (ORO)	5.3	50	4.3	"	"	"	"	"	"	J

Date Sampled: **11/01/23 12:26**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		72.2 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/13/23 13:46

CS-SS-04@3'
2311016-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/01/23 12:26**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGK0073	11/02/23	11/03/23	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: **11/01/23 12:26**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		58.0 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		67.0 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/23 12:26**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.275	2.00	0.00690	mg/L	1	BGK0221	11/07/23	11/08/23	EPA 6020B	J

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

Date Sampled: **11/01/23 12:26**

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 - CS-Bittersweet 03-01-13

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/13/23 13:46

CS-SS-04@3'
2311016-04 (Soil)

Summit Scientific

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

Calcium	44.5	0.0500	mg/L dry	1	BGK0138	11/03/23	11/07/23	EPA 6020B
Magnesium	9.42	0.0500	"	"	"	"	"	"
Sodium	70.6	0.0500	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **11/01/23 12:26**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.51	0.00100		units	1	BGK0281	11/08/23	11/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/23 12:26**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.5			%	1	BGK0222	11/07/23	11/07/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/23 12:26**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.674	0.0100	0.00100	mmhos/cm	1	BGK0150	11/06/23	11/06/23	EPA 120.1	

Summit Scientific

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/13/23 13:46

CS-FS-01@3.5'

2311016-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/23 12:28**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGK0076	11/02/23	11/03/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.081	0.50		"	"	"	"	"	"	J

Date Sampled: **11/01/23 12:28**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		101 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		97.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.2 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/23 12:28**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	12	50	4.3	mg/kg	1	BGK0078	11/02/23	11/03/23	EPA 8015M	J
C28-C36 (ORO)	ND	50	4.3	"	"	"	"	"	"	

Date Sampled: **11/01/23 12:28**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		76.9 %		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 - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/13/23 13:46

CS-FS-01@3.5'

2311016-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/01/23 12:28**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGK0073	11/02/23	11/03/23	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: **11/01/23 12:28**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		63.5 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		65.7 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/23 12:28**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.166	2.00	0.00690	mg/L	1	BGK0221	11/07/23	11/08/23	EPA 6020B	J

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

Date Sampled: **11/01/23 12:28**

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 - CS-Bittersweet 03-01-13

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/13/23 13:46

CS-FS-01@3.5'
2311016-05 (Soil)

Summit Scientific

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

Calcium	35.3	0.0500	mg/L dry	1	BGK0138	11/03/23	11/07/23	EPA 6020B
Magnesium	6.44	0.0500	"	"	"	"	"	"
Sodium	16.7	0.0500	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **11/01/23 12:28**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.679	0.00100		units	1	BGK0281	11/08/23	11/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/23 12:28**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.2			%	1	BGK0222	11/07/23	11/07/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/23 12:28**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.215	0.0100	0.00100	mmhos/cm	1	BGK0150	11/06/23	11/06/23	EPA 120.1	

Summit Scientific

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/13/23 13:46

CS-FS-02@3.5'

2311016-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/01/23 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGK0076	11/02/23	11/03/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.081	0.50		"	"	"	"	"	"	J

Date Sampled: **11/01/23 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		102 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		98.0 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.3 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/01/23 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	22	50	4.3	mg/kg	1	BGK0078	11/02/23	11/03/23	EPA 8015M	J
C28-C36 (ORO)	4.6	50	4.3	"	"	"	"	"	"	J

Date Sampled: **11/01/23 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		81.3 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/13/23 13:46

CS-FS-02@3.5'

2311016-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/01/23 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGK0073	11/02/23	11/03/23	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: **11/01/23 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		51.3 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		55.6 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/01/23 12:30**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.137	2.00	0.00690	mg/L	1	BGK0221	11/07/23	11/08/23	EPA 6020B	J

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

Date Sampled: **11/01/23 12:30**

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 - CS-Bittersweet 03-01-13

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/13/23 13:46

CS-FS-02@3.5'
2311016-06 (Soil)

Summit Scientific

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

Calcium	61.6	0.0500	mg/L dry	1	BGK0138	11/03/23	11/07/23	EPA 6020B
Magnesium	9.49	0.0500	"	"	"	"	"	"
Sodium	31.7	0.0500	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **11/01/23 12:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.993	0.00100		units	1	BGK0281	11/08/23	11/08/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/01/23 12:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.2			%	1	BGK0222	11/07/23	11/07/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/01/23 12:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.292	0.0100	0.00100	mmhos/cm	1	BGK0150	11/06/23	11/06/23	EPA 120.1	

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Wheat Ridge CO, 80033

Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/13/23 13:46

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 BGK0076 - EPA 5030 Soil MS

Blank (BGK0076-BLK1)

Prepared & Analyzed: 11/02/23

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	0.0407		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0390		"	0.0400		97.4	50-150			

LCS (BGK0076-BS1)

Prepared & Analyzed: 11/02/23

Benzene	0.142	0.0020	mg/kg	0.150		94.7	70-130			
Toluene	0.140	0.0050	"	0.150		93.3	70-130			
Ethylbenzene	0.135	0.0050	"	0.150		90.2	70-130			
m,p-Xylene	0.270	0.010	"	0.300		89.9	70-130			
o-Xylene	0.137	0.0050	"	0.150		91.2	70-130			
1,2,4-Trimethylbenzene	0.136	0.0050	"	0.150		90.6	70-130			
1,3,5-Trimethylbenzene	0.135	0.0050	"	0.150		90.2	70-130			
Naphthalene	0.134	0.0038	"	0.150		89.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0412		"	0.0400		103	50-150			
Surrogate: Toluene-d8	0.0406		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0407		"	0.0400		102	50-150			

Matrix Spike (BGK0076-MS1)

Source: 2310616-01

Prepared & Analyzed: 11/02/23

Benzene	0.135	0.0020	mg/kg	0.150	ND	90.0	70-130			
Toluene	0.134	0.0050	"	0.150	ND	89.3	70-130			
Ethylbenzene	0.128	0.0050	"	0.150	ND	85.3	70-130			
m,p-Xylene	0.256	0.010	"	0.300	ND	85.3	70-130			
o-Xylene	0.131	0.0050	"	0.150	ND	87.4	70-130			
1,2,4-Trimethylbenzene	0.127	0.0050	"	0.150	ND	84.6	70-130			
1,3,5-Trimethylbenzene	0.125	0.0050	"	0.150	ND	83.1	70-130			
Naphthalene	0.135	0.0038	"	0.150	ND	90.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0428		"	0.0400		107	50-150			
Surrogate: Toluene-d8	0.0403		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0412		"	0.0400		103	50-150			

Summit Scientific

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/13/23 13:46

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 BGK0076 - EPA 5030 Soil MS

Matrix Spike Dup (BGK0076-MSD1)		Source: 2310616-01			Prepared & Analyzed: 11/02/23					
Benzene	0.132	0.0020	mg/kg	0.150	ND	87.7	70-130	2.54	30	
Toluene	0.130	0.0050	"	0.150	ND	86.9	70-130	2.70	30	
Ethylbenzene	0.122	0.0050	"	0.150	ND	81.4	70-130	4.68	30	
m,p-Xylene	0.246	0.010	"	0.300	ND	81.9	70-130	4.09	30	
o-Xylene	0.124	0.0050	"	0.150	ND	82.9	70-130	5.26	30	
1,2,4-Trimethylbenzene	0.122	0.0050	"	0.150	ND	81.2	70-130	4.10	30	
1,3,5-Trimethylbenzene	0.118	0.0050	"	0.150	ND	78.5	70-130	5.64	30	
Naphthalene	0.135	0.0038	"	0.150	ND	90.3	70-130	0.0665	30	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	0.0434		"	0.0400		108	50-150			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0406		"	0.0400		102	50-150			

Summit Scientific

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

Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/13/23 13:46

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 BGK0078 - EPA 3550A

Blank (BGK0078-BLK1)

Prepared: 11/02/23 Analyzed: 11/03/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	11.5		"	12.5		92.3	30-150			

LCS (BGK0078-BS1)

Prepared: 11/02/23 Analyzed: 11/03/23

C10-C28 (DRO)	382	50	mg/kg	500		76.4	70-130			
Surrogate: o-Terphenyl	10.1		"	12.5		80.9	30-150			

Matrix Spike (BGK0078-MS1)

Source: 2310616-01

Prepared: 11/02/23 Analyzed: 11/03/23

C10-C28 (DRO)	398	50	mg/kg	500	27.2	74.2	70-130			
Surrogate: o-Terphenyl	9.89		"	12.5		79.1	30-150			

Matrix Spike Dup (BGK0078-MSD1)

Source: 2310616-01

Prepared: 11/02/23 Analyzed: 11/03/23

C10-C28 (DRO)	404	50	mg/kg	500	27.2	75.3	70-130	1.42	20	
Surrogate: o-Terphenyl	12.3		"	12.5		98.2	30-150			

Summit Scientific

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

Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/13/23 13:46

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 BGK0073 - EPA 5030 Soil MS

Blank (BGK0073-BLK1)

Prepared & Analyzed: 11/02/23

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	0.0396		"	0.0333		119	40-150			
Surrogate: Fluoranthene-d10	0.0313		"	0.0333		94.0	40-150			

LCS (BGK0073-BS1)

Prepared & Analyzed: 11/02/23

Acenaphthene	0.0317	0.00500	mg/kg	0.0333	95.0	31-137
Anthracene	0.0327	0.00500	"	0.0333	98.1	30-120
Benzo (a) anthracene	0.0284	0.00500	"	0.0333	85.2	30-120
Benzo (a) pyrene	0.0322	0.00500	"	0.0333	96.5	30-120
Benzo (b) fluoranthene	0.0322	0.00500	"	0.0333	96.7	30-120
Benzo (k) fluoranthene	0.0361	0.00500	"	0.0333	108	30-120
Chrysene	0.0328	0.00500	"	0.0333	98.3	30-120
Dibenz (a,h) anthracene	0.0296	0.00500	"	0.0333	88.7	30-120
Fluoranthene	0.0313	0.00500	"	0.0333	93.9	30-120
Fluorene	0.0319	0.00500	"	0.0333	95.7	30-120
Indeno (1,2,3-cd) pyrene	0.0299	0.00500	"	0.0333	89.8	30-120
Pyrene	0.0366	0.00500	"	0.0333	110	35-142
1-Methylnaphthalene	0.0308	0.00500	"	0.0333	92.5	35-142
2-Methylnaphthalene	0.0404	0.00500	"	0.0333	121	35-142
Surrogate: 2-Methylnaphthalene-d10	0.0273		"	0.0333	81.9	40-150
Surrogate: Fluoranthene-d10	0.0315		"	0.0333	94.6	40-150

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

Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/13/23 13:46

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 BGK0073 - EPA 5030 Soil MS

Matrix Spike (BGK0073-MS1)

Source: 2310610-02

Prepared & Analyzed: 11/02/23

Acenaphthene	0.0160	0.00500	mg/kg	0.0333	ND	47.9	31-137		
Anthracene	0.0145	0.00500	"	0.0333	ND	43.4	30-120		
Benzo (a) anthracene	0.0149	0.00500	"	0.0333	ND	44.8	30-120		
Benzo (a) pyrene	0.0149	0.00500	"	0.0333	ND	44.6	30-120		
Benzo (b) fluoranthene	0.0138	0.00500	"	0.0333	ND	41.5	30-120		
Benzo (k) fluoranthene	0.0154	0.00500	"	0.0333	ND	46.1	30-120		
Chrysene	0.0151	0.00500	"	0.0333	ND	45.2	30-120		
Dibenz (a,h) anthracene	0.0175	0.00500	"	0.0333	ND	52.5	30-120		
Fluoranthene	0.0137	0.00500	"	0.0333	ND	41.1	30-120		
Fluorene	0.0169	0.00500	"	0.0333	ND	50.6	30-120		
Indeno (1,2,3-cd) pyrene	0.0183	0.00500	"	0.0333	ND	55.0	30-120		
Pyrene	0.0150	0.00500	"	0.0333	ND	45.1	35-142		
1-Methylnaphthalene	0.0185	0.00500	"	0.0333	ND	55.4	15-130		
2-Methylnaphthalene	0.0191	0.00500	"	0.0333	ND	57.3	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0182		"	0.0333		54.7	40-150		
Surrogate: Fluoranthene-d10	0.0138		"	0.0333		41.5	40-150		

Matrix Spike Dup (BGK0073-MSD1)

Source: 2310610-02

Prepared & Analyzed: 11/02/23

Acenaphthene	0.0146	0.00500	mg/kg	0.0333	ND	43.9	31-137	8.61	30
Anthracene	0.0154	0.00500	"	0.0333	ND	46.1	30-120	6.22	30
Benzo (a) anthracene	0.0136	0.00500	"	0.0333	ND	40.9	30-120	9.12	30
Benzo (a) pyrene	0.0162	0.00500	"	0.0333	ND	48.6	30-120	8.52	30
Benzo (b) fluoranthene	0.0134	0.00500	"	0.0333	ND	40.1	30-120	3.49	30
Benzo (k) fluoranthene	0.0171	0.00500	"	0.0333	ND	51.3	30-120	10.5	30
Chrysene	0.0146	0.00500	"	0.0333	ND	43.7	30-120	3.45	30
Dibenz (a,h) anthracene	0.0184	0.00500	"	0.0333	ND	55.3	30-120	5.13	30
Fluoranthene	0.0155	0.00500	"	0.0333	ND	46.4	30-120	12.2	30
Fluorene	0.0154	0.00500	"	0.0333	ND	46.1	30-120	9.32	30
Indeno (1,2,3-cd) pyrene	0.0157	0.00500	"	0.0333	ND	47.2	30-120	15.3	30
Pyrene	0.0186	0.00500	"	0.0333	ND	55.7	35-142	21.0	30
1-Methylnaphthalene	0.0187	0.00500	"	0.0333	ND	56.0	15-130	1.02	50
2-Methylnaphthalene	0.0139	0.00500	"	0.0333	ND	41.6	15-130	31.7	50
Surrogate: 2-Methylnaphthalene-d10	0.0140		"	0.0333		42.1	40-150		
Surrogate: Fluoranthene-d10	0.0157		"	0.0333		47.2	40-150		

Summit Scientific

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

Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/13/23 13:46

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 BGK0221 - EPA 3050B

Blank (BGK0221-BLK1)

Prepared: 11/07/23 Analyzed: 11/08/23

Boron ND 2.00 mg/L

LCS (BGK0221-BS1)

Prepared: 11/07/23 Analyzed: 11/08/23

Boron 5.02 2.00 mg/L 5.00 100 80-120

Duplicate (BGK0221-DUP1)

Source: 2311014-01

Prepared: 11/07/23 Analyzed: 11/08/23

Boron 0.343 2.00 mg/L 0.298 14.0 20 J

Matrix Spike (BGK0221-MS1)

Source: 2311014-01

Prepared: 11/07/23 Analyzed: 11/08/23

Boron 7.28 2.00 mg/L 5.00 0.298 140 75-125 QM-05

Matrix Spike Dup (BGK0221-MSD1)

Source: 2311014-01

Prepared: 11/07/23 Analyzed: 11/08/23

Boron 7.25 2.00 mg/L 5.00 0.298 139 75-125 0.385 25 QM-05

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Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/13/23 13:46

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 BGK0138 - General Preparation

Blank (BGK0138-BLK1)

Prepared: 11/03/23 Analyzed: 11/07/23

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

LCS (BGK0138-BS1)

Prepared: 11/03/23 Analyzed: 11/07/23

Calcium	5.44	0.0500	mg/L wet	5.00	109	70-130
Magnesium	5.45	0.0500	"	5.00	109	70-130
Sodium	5.36	0.0500	"	5.00	107	70-130

Summit Scientific

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Wheat Ridge CO, 80033

Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/13/23 13:46

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 BGK0222 - General Preparation

Duplicate (BGK0222-DUP1)

Source: 2310244-09

Prepared & Analyzed: 11/07/23

% Solids	91.7	%	91.6	0.138	20
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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/13/23 13:46

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 BGK0150 - General Preparation

Blank (BGK0150-BLK1)

Prepared & Analyzed: 11/06/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGK0150-BS1)

Prepared & Analyzed: 11/06/23

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

Duplicate (BGK0150-DUP1)

Source: 2311013-01

Prepared & Analyzed: 11/06/23

Specific Conductance (EC) 0.192 0.0100 mmhos/cm 0.192 0.00 20

Summit Scientific

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

Project: Civitas - CS-Bittersweet 03-01-13

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/13/23 13:46

Notes and Definitions

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