



ATTACHMENT B

Laboratory Analytical Reports

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

December 15, 2023

Andrew Newberry

Eagle Environmental Consulting

8000 W 44th Ave

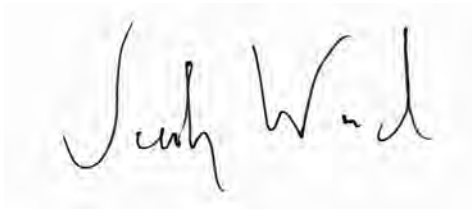
Wheat Ridge, CO 80033

RE: Civitas - Sam 25H-M166

Work Order # 2311616

Enclosed are the results of analyses for samples received by Summit Scientific on 11/30/23 13:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury

President



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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 08:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS-SS-01@5'	2311616-01	Soil	11/30/23 10:20	11/30/23 13:20
CS-SS-02@16'	2311616-02	Soil	11/30/23 10:30	11/30/23 13:20
CS-SS-03@5'	2311616-03	Soil	11/30/23 10:40	11/30/23 13:20
CS-SS-04@16'	2311616-04	Soil	11/30/23 10:50	11/30/23 13:20
CS-SS-05@5'	2311616-05	Soil	11/30/23 11:00	11/30/23 13:20
CS-SS-06@16'	2311616-06	Soil	11/30/23 11:10	11/30/23 13:20
CS-SS-07@5'	2311616-07	Soil	11/30/23 11:20	11/30/23 13:20
CS-SS-08@16'	2311616-08	Soil	11/30/23 11:30	11/30/23 13:20
CS-FS-01@18'	2311616-09	Soil	11/30/23 11:40	11/30/23 13:20

Summit Scientific

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

SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2311616	

Client: <i>Eagle Environmental Consulting</i>		Send Data To: Project Manager: <i>Andrew Newberry</i>		Send Invoice To: Company: <i>Civitas</i>	
Address: <i>8000 W 44th Ave</i>		E-Mail: <i>anewberry@eagle-enviro.com</i>		Project Name/Location:	
City/State/Zip: <i>Wheat Ridge, CO 80033</i>				AFE#:	
Phone: <i>303-433-0479</i>		Project Name: <i>Sam 25H-M166</i>		PO/Billing Codes:	
Sampler Name: <i>TL</i>		Project Number: <i>—</i>		Contact: <i>Costin</i>	

					Preservative				Matrix				Analysis Requested								Special Instructions				
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Gravimetric, Moisture, etc.	TMBs - 8200	DRO/RNO - BD15D	PAHs - 8270Ds/m	EC - 9050A	SAR - 20B	pH - 9045D	Boron - Hot water Soluble	Table 915 metals - 6020B	Cr VI	Cr VII		
1	CS-SS-01 @ 5'	11-30-23	1020	2			X			X			X	X	X	X	X	X	X	X	X	X	X	X	EC, SAR, pH = Saturated Paste Prep
2	CS-SS-02 @ 16'	↓	1030	↓			↓			↓			↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
3	CS-SS-03 @ 5'		1040	↓			↓			↓			↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	ⓈMOLs needed
4	CS-SS-04 @ 16'		1050	↓			↓			↓			↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
5	CS-SS-05 @ 5'		1100	↓			↓			↓			↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
6	CS-SS-06 @ 16'		1110	↓			↓			↓			↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
7	CS-SS-07 @ 5'		1120	↓			↓			↓			↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
8	CS-SS-08 @ 16'		1130	↓			↓			↓			↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
9	CS-SS-01 @ 18'	↓	1140	↓			↓			↓			↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
10																									
11																									
12																									
13																									
14																									
15																									

Relinquished by: <i>Trevor Cople</i>	Date/Time: <i>11-30-23/1320</i>	Received by: <i>[Signature]</i>	Date/Time: <i>11/30/23 13:20</i>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <i>4.7</i>	Corrected Temperature	IR gun #: <i>2</i>	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2311616Client: Eagle Environmental Client Project ID: Sam 25H - M166Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 4.7Thermometer # 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"/>	<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 type="checkbox"/>	<input checked="" type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

MM

Custodian Printed Name

11/30/23 13:20

Date/Time



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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 08:29

CS-SS-01@5'
2311616-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0109	12/04/23	12/05/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/30/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		136 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	19	50	4.3	mg/kg	1	BGL0108	12/04/23	12/05/23	EPA 8015M	J
C28-C36 (ORO)	9.3	50	4.3	"	"	"	"	"	"	J

Date Sampled: **11/30/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		118 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 08:29

CS-SS-01@5'
2311616-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/30/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0077	12/04/23	12/05/23	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: **11/30/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		62.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		68.3 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/30/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.0394	2.00	0.00690	mg/L	1	BGL0106	12/04/23	12/07/23	EPA 6020B	J

Total Metals by EPA 6020B

Date Sampled: **11/30/23 10:20**

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

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 08:29

CS-SS-01@5'
2311616-01 (Soil)

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Total Metals by EPA 6020B

Arsenic	3.50	0.200	0.168	mg/kg dry	1	BGL0140	12/05/23	12/05/23	EPA 6020B	
Barium	125	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.179	0.200	0.00720	"	"	"	"	"	"	J
Copper	3.02	0.400	0.0209	"	"	"	"	"	"	
Lead	5.26	0.200	0.0550	"	"	"	"	"	"	
Nickel	4.74	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0187	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	12.6	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/30/23 10:20

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGL0093	12/04/23	12/05/23	EPA 7196A	

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

Date Sampled: 11/30/23 10:20

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	23.3	0.0500		mg/L dry	1	BGL0385	12/11/23	12/14/23	EPA 6020B	
Magnesium	6.74	0.0500		"	"	"	"	"	"	
Sodium	41.3	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/30/23 10:20

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.94	0.00100		units	1	BGL0558	12/14/23	12/14/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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CS-SS-01@5'
2311616-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/30/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	89.6			%	1	BGL0119	12/04/23	12/04/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/30/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.285	0.0100	0.00100	mmhos/cm	1	BGL0400	12/12/23	12/12/23	EPA 120.1	

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

Date Sampled: **11/30/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	9.14			pH Units	1	BGL0401	12/12/23	12/12/23	EPA 9045D	

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Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 08:29

CS-SS-02@16'
2311616-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0109	12/04/23	12/05/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		150 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	27	50	4.3	mg/kg	1	BGL0108	12/04/23	12/05/23	EPA 8015M	J
C28-C36 (ORO)	9.4	50	4.3	"	"	"	"	"	"	J

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

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

PAH by EPA Method 8270D SIM

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Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 08:29

CS-SS-02@16'

2311616-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0077	12/04/23	12/05/23	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: **11/30/23 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		45.8 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		60.0 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.0406	2.00	0.00690	mg/L	1	BGL0106	12/04/23	12/07/23	EPA 6020B	J

Total Metals by EPA 6020B

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

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

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Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 08:29

CS-SS-02@16'
2311616-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.59	0.200	0.168	mg/kg dry	1	BGL0140	12/05/23	12/05/23	EPA 6020B	
Barium	109	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.166	0.200	0.00720	"	"	"	"	"	"	J
Copper	3.18	0.400	0.0209	"	"	"	"	"	"	
Lead	5.27	0.200	0.0550	"	"	"	"	"	"	
Nickel	5.16	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0193	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	13.2	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/30/23 10:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGL0093	12/04/23	12/05/23	EPA 7196A	

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

Date Sampled: 11/30/23 10:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	18.3	0.0500		mg/L dry	1	BGL0385	12/11/23	12/14/23	EPA 6020B	
Magnesium	7.01	0.0500		"	"	"	"	"	"	
Sodium	42.2	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/30/23 10:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.13	0.00100		units	1	BGL0558	12/14/23	12/14/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 08:29

CS-SS-02@16'
2311616-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	89.0			%	1	BGL0119	12/04/23	12/04/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.311	0.0100	0.00100	mmhos/cm	1	BGL0400	12/12/23	12/12/23	EPA 120.1	

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

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.67			pH Units	1	BGL0401	12/12/23	12/12/23	EPA 9045D	

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 08:29

CS-SS-03@5'
2311616-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0109	12/04/23	12/05/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/30/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		134 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	26	50	4.3	mg/kg	1	BGL0108	12/04/23	12/05/23	EPA 8015M	J
C28-C36 (ORO)	8.6	50	4.3	"	"	"	"	"	"	J

Date Sampled: **11/30/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		91.8 %		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 - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 08:29

CS-SS-03@5'
2311616-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/30/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0077	12/04/23	12/05/23	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: **11/30/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		45.0 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		62.9 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/30/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.0386	2.00	0.00690	mg/L	1	BGL0106	12/04/23	12/07/23	EPA 6020B	J

Total Metals by EPA 6020B

Date Sampled: **11/30/23 10:40**

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

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 08:29

CS-SS-03@5'
2311616-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	4.26	0.200	0.168	mg/kg dry	1	BGL0140	12/05/23	12/05/23	EPA 6020B	
Barium	139	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.190	0.200	0.00720	"	"	"	"	"	"	J
Copper	3.67	0.400	0.0209	"	"	"	"	"	"	
Lead	5.81	0.200	0.0550	"	"	"	"	"	"	
Nickel	5.52	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0211	0.0200	0.00267	"	"	"	"	"	"	
Zinc	14.9	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/30/23 10:40

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGL0093	12/04/23	12/05/23	EPA 7196A	

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

Date Sampled: 11/30/23 10:40

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	19.3	0.0500		mg/L dry	1	BGL0385	12/11/23	12/14/23	EPA 6020B	
Magnesium	6.96	0.0500		"	"	"	"	"	"	
Sodium	40.4	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/30/23 10:40

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.01	0.00100		units	1	BGL0558	12/14/23	12/14/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 08:29

CS-SS-03@5'
2311616-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/30/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	89.3			%	1	BGL0119	12/04/23	12/04/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/30/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.299	0.0100	0.00100	mmhos/cm	1	BGL0400	12/12/23	12/12/23	EPA 120.1	

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

Date Sampled: **11/30/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.63			pH Units	1	BGL0401	12/12/23	12/12/23	EPA 9045D	

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 08:29

CS-SS-04@16'
2311616-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0109	12/04/23	12/05/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/30/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		147 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	30	50	4.3	mg/kg	1	BGL0108	12/04/23	12/05/23	EPA 8015M	J
C28-C36 (ORO)	8.9	50	4.3	"	"	"	"	"	"	J

Date Sampled: **11/30/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		119 %		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 - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 08:29

CS-SS-04@16'

2311616-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/30/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0077	12/04/23	12/05/23	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: **11/30/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		46.5 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		57.7 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/30/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.141	2.00	0.00690	mg/L	1	BGL0106	12/04/23	12/07/23	EPA 6020B	J

Total Metals by EPA 6020B

Date Sampled: **11/30/23 10:50**

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 - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 08:29

CS-SS-04@16'

2311616-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	4.53	0.200	0.168	mg/kg dry	1	BGL0140	12/05/23	12/06/23	EPA 6020B	
Barium	195	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.195	0.200	0.00720	"	"	"	"	"	"	J
Copper	4.47	0.400	0.0209	"	"	"	"	"	"	
Lead	6.59	0.200	0.0550	"	"	"	"	"	"	
Nickel	5.85	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0302	0.0200	0.00267	"	"	"	"	"	"	
Zinc	16.0	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/30/23 10:50

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGL0093	12/04/23	12/05/23	EPA 7196A	

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

Date Sampled: 11/30/23 10:50

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	27.0	0.0500		mg/L dry	1	BGL0385	12/11/23	12/14/23	EPA 6020B	
Magnesium	6.81	0.0500		"	"	"	"	"	"	
Sodium	34.0	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/30/23 10:50

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.51	0.00100		units	1	BGL0558	12/14/23	12/14/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 08:29

CS-SS-04@16'
2311616-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/30/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	91.3			%	1	BGL0119	12/04/23	12/04/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/30/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.361	0.0100	0.00100	mmhos/cm	1	BGL0400	12/12/23	12/12/23	EPA 120.1	

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

Date Sampled: **11/30/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.42			pH Units	1	BGL0401	12/12/23	12/12/23	EPA 9045D	

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 08:29

CS-SS-05@5'
2311616-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0109	12/04/23	12/05/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/30/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		145 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	33	50	4.3	mg/kg	1	BGL0108	12/04/23	12/05/23	EPA 8015M	J
C28-C36 (ORO)	11	50	4.3	"	"	"	"	"	"	J

Date Sampled: **11/30/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		129 %		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 - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 08:29

CS-SS-05@5'
2311616-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/30/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0077	12/04/23	12/05/23	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: **11/30/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		47.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		66.0 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/30/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.0945	2.00	0.00690	mg/L	1	BGL0106	12/04/23	12/07/23	EPA 6020B	J

Total Metals by EPA 6020B

Date Sampled: **11/30/23 11:00**

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

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 08:29

CS-SS-05@5'
2311616-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.50	0.200	0.168	mg/kg dry	1	BGL0140	12/05/23	12/06/23	EPA 6020B	
Barium	140	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.142	0.200	0.00720	"	"	"	"	"	"	J
Copper	3.73	0.400	0.0209	"	"	"	"	"	"	
Lead	4.49	0.200	0.0550	"	"	"	"	"	"	
Nickel	4.59	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0218	0.0200	0.00267	"	"	"	"	"	"	
Zinc	12.4	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/30/23 11:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGL0093	12/04/23	12/05/23	EPA 7196A	

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

Date Sampled: 11/30/23 11:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	28.7	0.0500		mg/L dry	1	BGL0385	12/11/23	12/14/23	EPA 6020B	
Magnesium	7.23	0.0500		"	"	"	"	"	"	
Sodium	23.9	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/30/23 11:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.03	0.00100		units	1	BGL0558	12/14/23	12/14/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 08:29

CS-SS-05@5'
2311616-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/30/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	93.4			%	1	BGL0119	12/04/23	12/04/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/30/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.331	0.0100	0.00100	mmhos/cm	1	BGL0400	12/12/23	12/12/23	EPA 120.1	

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

Date Sampled: **11/30/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.40			pH Units	1	BGL0401	12/12/23	12/12/23	EPA 9045D	

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 08:29

CS-SS-06@16'

2311616-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0109	12/04/23	12/05/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		144 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	35	50	4.3	mg/kg	1	BGL0108	12/04/23	12/05/23	EPA 8015M	J
C28-C36 (ORO)	12	50	4.3	"	"	"	"	"	"	J

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		134 %		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 - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 08:29

CS-SS-06@16'

2311616-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0077	12/04/23	12/05/23	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: **11/30/23 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		55.2 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		72.6 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.0563	2.00	0.00690	mg/L	1	BGL0106	12/04/23	12/07/23	EPA 6020B	J

Total Metals by EPA 6020B

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

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

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 08:29

CS-SS-06@16'
2311616-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	4.70	0.200	0.168	mg/kg dry	1	BGL0140	12/05/23	12/06/23	EPA 6020B	
Barium	179	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.172	0.200	0.00720	"	"	"	"	"	"	J
Copper	4.57	0.400	0.0209	"	"	"	"	"	"	
Lead	5.73	0.200	0.0550	"	"	"	"	"	"	
Nickel	5.81	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0307	0.0200	0.00267	"	"	"	"	"	"	
Zinc	14.7	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/30/23 11:10

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGL0093	12/04/23	12/05/23	EPA 7196A	

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

Date Sampled: 11/30/23 11:10

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	28.9	0.0500		mg/L dry	1	BGL0385	12/11/23	12/14/23	EPA 6020B	
Magnesium	8.20	0.0500		"	"	"	"	"	"	
Sodium	19.4	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/30/23 11:10

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.820	0.00100		units	1	BGL0558	12/14/23	12/14/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 08:29

CS-SS-06@16'
2311616-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	89.9			%	1	BGL0119	12/04/23	12/04/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.286	0.0100	0.00100	mmhos/cm	1	BGL0400	12/12/23	12/12/23	EPA 120.1	

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

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.38			pH Units	1	BGL0401	12/12/23	12/12/23	EPA 9045D	

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 08:29

CS-SS-07@5'
2311616-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/23 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0109	12/04/23	12/05/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/30/23 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		146 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/23 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	31	50	4.3	mg/kg	1	BGL0108	12/04/23	12/05/23	EPA 8015M	J
C28-C36 (ORO)	12	50	4.3	"	"	"	"	"	"	J

Date Sampled: **11/30/23 11:20**

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

PAH by EPA Method 8270D SIM

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Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

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12/15/23 08:29

CS-SS-07@5'
2311616-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/30/23 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0077	12/04/23	12/05/23	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: **11/30/23 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		53.0 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		69.5 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/30/23 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.0162	2.00	0.00690	mg/L	1	BGL0106	12/04/23	12/07/23	EPA 6020B	J

Total Metals by EPA 6020B

Date Sampled: **11/30/23 11:20**

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 - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 08:29

CS-SS-07@5'
2311616-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.49	0.200	0.168	mg/kg dry	1	BGL0140	12/05/23	12/06/23	EPA 6020B	
Barium	30.8	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0613	0.200	0.00720	"	"	"	"	"	"	J
Copper	1.41	0.400	0.0209	"	"	"	"	"	"	
Lead	5.55	0.200	0.0550	"	"	"	"	"	"	
Nickel	3.06	0.400	0.0610	"	"	"	"	"	"	
Silver	0.00306	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	17.0	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/30/23 11:20

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGL0093	12/04/23	12/05/23	EPA 7196A	

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

Date Sampled: 11/30/23 11:20

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	5.57	0.0500		mg/L dry	1	BGL0385	12/11/23	12/14/23	EPA 6020B	
Magnesium	2.94	0.0500		"	"	"	"	"	"	
Sodium	34.0	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/30/23 11:20

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.90	0.00100		units	1	BGL0558	12/14/23	12/14/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 08:29

CS-SS-07@5'
2311616-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/30/23 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	91.4			%	1	BGL0119	12/04/23	12/04/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/30/23 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.212	0.0100	0.00100	mmhos/cm	1	BGL0400	12/12/23	12/12/23	EPA 120.1	

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

Date Sampled: **11/30/23 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	9.05			pH Units	1	BGL0401	12/12/23	12/12/23	EPA 9045D	

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 08:29

CS-SS-08@16'

2311616-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/30/23 11:30

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0109	12/04/23	12/05/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: 11/30/23 11:30

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		92.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 11/30/23 11:30

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	29	50	4.3	mg/kg	1	BGL0108	12/04/23	12/05/23	EPA 8015M	J
C28-C36 (ORO)	14	50	4.3	"	"	"	"	"	"	J

Date Sampled: 11/30/23 11:30

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		140 %		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 - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 08:29

CS-SS-08@16'

2311616-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0077	12/04/23	12/05/23	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: **11/30/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		45.3 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		58.1 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

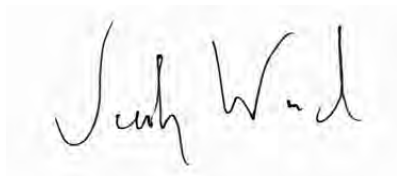
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.0151	2.00	0.00690	mg/L	1	BGL0106	12/04/23	12/07/23	EPA 6020B	J

Total Metals by EPA 6020B

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

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

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 08:29

CS-SS-08@16'
2311616-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.39	0.200	0.168	mg/kg dry	1	BGL0140	12/05/23	12/06/23	EPA 6020B	
Barium	30.3	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0642	0.200	0.00720	"	"	"	"	"	"	J
Copper	1.47	0.400	0.0209	"	"	"	"	"	"	
Lead	5.59	0.200	0.0550	"	"	"	"	"	"	
Nickel	3.13	0.400	0.0610	"	"	"	"	"	"	
Silver	0.00437	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	17.6	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/30/23 11:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGL0093	12/04/23	12/05/23	EPA 7196A	

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

Date Sampled: 11/30/23 11:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	16.1	0.0500		mg/L dry	1	BGL0385	12/11/23	12/14/23	EPA 6020B	
Magnesium	9.00	0.0500		"	"	"	"	"	"	
Sodium	30.2	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/30/23 11:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.50	0.00100		units	1	BGL0558	12/14/23	12/14/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 08:29

CS-SS-08@16'
2311616-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	91.6			%	1	BGL0119	12/04/23	12/04/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.179	0.0100	0.00100	mmhos/cm	1	BGL0400	12/12/23	12/12/23	EPA 120.1	

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

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.85			pH Units	1	BGL0401	12/12/23	12/12/23	EPA 9045D	

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 08:29

CS-FS-01@18'

2311616-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/30/23 11:40

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0109	12/04/23	12/05/23	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: 11/30/23 11:40

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		131 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		105 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 11/30/23 11:40

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	11	50	4.3	mg/kg	1	BGL0108	12/04/23	12/05/23	EPA 8015M	J
C28-C36 (ORO)	13	50	4.3	"	"	"	"	"	"	J

Date Sampled: 11/30/23 11:40

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

PAH by EPA Method 8270D SIM

Summit Scientific

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Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 08:29

CS-FS-01@18'

2311616-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/30/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0077	12/04/23	12/05/23	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: **11/30/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		40.6 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		41.4 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/30/23 11:40**

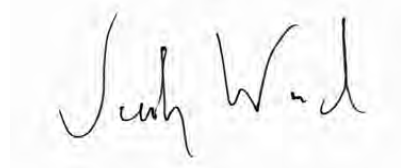
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.0125	2.00	0.00690	mg/L	1	BGL0106	12/04/23	12/07/23	EPA 6020B	J

Total Metals by EPA 6020B

Date Sampled: **11/30/23 11:40**

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 - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 08:29

CS-FS-01@18'
2311616-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.38	0.200	0.168	mg/kg dry	1	BGL0140	12/05/23	12/06/23	EPA 6020B	
Barium	32.3	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0664	0.200	0.00720	"	"	"	"	"	"	J
Copper	1.46	0.400	0.0209	"	"	"	"	"	"	
Lead	5.92	0.200	0.0550	"	"	"	"	"	"	
Nickel	3.27	0.400	0.0610	"	"	"	"	"	"	
Silver	0.00349	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	17.7	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 11/30/23 11:40

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGL0093	12/04/23	12/05/23	EPA 7196A	

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

Date Sampled: 11/30/23 11:40

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	6.38	0.0500		mg/L dry	1	BGL0385	12/11/23	12/14/23	EPA 6020B	
Magnesium	3.42	0.0500		"	"	"	"	"	"	
Sodium	34.5	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 11/30/23 11:40

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.74	0.00100		units	1	BGL0558	12/14/23	12/14/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 08:29

CS-FS-01@18'
2311616-09 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/30/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	91.6			%	1	BGL0119	12/04/23	12/04/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/30/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.211	0.0100	0.00100	mmhos/cm	1	BGL0400	12/12/23	12/12/23	EPA 120.1	

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

Date Sampled: **11/30/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.96			pH Units	1	BGL0401	12/12/23	12/12/23	EPA 9045D	

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 08:29

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 BGL0109 - EPA 5030 Soil MS

Blank (BGL0109-BLK1)

Prepared: 12/04/23 Analyzed: 12/05/23

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	0.0539		"	0.0400		135	50-150			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0420		"	0.0400		105	50-150			

LCS (BGL0109-BS1)

Prepared: 12/04/23 Analyzed: 12/05/23

Benzene	0.106	0.0020	mg/kg	0.100		106	70-130			
Toluene	0.122	0.0050	"	0.100		122	70-130			
Ethylbenzene	0.107	0.0050	"	0.100		107	70-130			
m,p-Xylene	0.207	0.010	"	0.200		103	70-130			
o-Xylene	0.108	0.0050	"	0.100		108	70-130			
1,2,4-Trimethylbenzene	0.0991	0.0050	"	0.100		99.1	70-130			
1,3,5-Trimethylbenzene	0.107	0.0050	"	0.100		107	70-130			
Naphthalene	0.0739	0.0038	"	0.100		73.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0572		"	0.0400		143	50-150			
Surrogate: Toluene-d8	0.0436		"	0.0400		109	50-150			
Surrogate: 4-Bromofluorobenzene	0.0413		"	0.0400		103	50-150			

Matrix Spike (BGL0109-MS1)

Source: 2311576-01

Prepared: 12/04/23 Analyzed: 12/05/23

Benzene	0.102	0.0020	mg/kg	0.100	ND	102	70-130			
Toluene	0.114	0.0050	"	0.100	ND	114	70-130			
Ethylbenzene	0.0924	0.0050	"	0.100	ND	92.4	70-130			
m,p-Xylene	0.178	0.010	"	0.200	ND	89.0	70-130			
o-Xylene	0.0913	0.0050	"	0.100	ND	91.3	70-130			
1,2,4-Trimethylbenzene	0.0743	0.0050	"	0.100	ND	74.3	70-130			
1,3,5-Trimethylbenzene	0.0820	0.0050	"	0.100	ND	82.0	70-130			
Naphthalene	0.0959	0.0038	"	0.100	ND	95.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0544		"	0.0400		136	50-150			
Surrogate: Toluene-d8	0.0437		"	0.0400		109	50-150			
Surrogate: 4-Bromofluorobenzene	0.0410		"	0.0400		103	50-150			

Summit Scientific

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 08:29

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 BGL0109 - EPA 5030 Soil MS

Matrix Spike Dup (BGL0109-MSD1)	Source: 2311576-01			Prepared: 12/04/23 Analyzed: 12/05/23						
Benzene	0.113	0.0020	mg/kg	0.100	ND	113	70-130	10.9	30	
Toluene	0.121	0.0050	"	0.100	ND	121	70-130	5.75	30	
Ethylbenzene	0.0985	0.0050	"	0.100	ND	98.5	70-130	6.41	30	
m,p-Xylene	0.187	0.010	"	0.200	ND	93.3	70-130	4.67	30	
o-Xylene	0.0954	0.0050	"	0.100	ND	95.4	70-130	4.40	30	
1,2,4-Trimethylbenzene	0.0704	0.0050	"	0.100	ND	70.4	70-130	5.47	30	
1,3,5-Trimethylbenzene	0.0892	0.0050	"	0.100	ND	89.2	70-130	8.34	30	
Naphthalene	0.0961	0.0038	"	0.100	ND	96.1	70-130	0.125	30	
Surrogate: 1,2-Dichloroethane-d4	0.0538		"	0.0400		135	50-150			
Surrogate: Toluene-d8	0.0418		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0414		"	0.0400		104	50-150			

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Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 08:29

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 BGL0108 - EPA 3550A

Blank (BGL0108-BLK1)

Prepared & Analyzed: 12/04/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	18.4		"	12.5	148	30-150				

LCS (BGL0108-BS1)

Prepared: 12/04/23 Analyzed: 12/05/23

C10-C28 (DRO)	525	50	mg/kg	500	105	70-130				
Surrogate: o-Terphenyl	16.9		"	12.5	135	30-150				

Matrix Spike (BGL0108-MS1)

Source: 2311576-01

Prepared: 12/04/23 Analyzed: 12/05/23

C10-C28 (DRO)	453	50	mg/kg	500	25.3	85.6	70-130			
Surrogate: o-Terphenyl	10.6		"	12.5	85.1	30-150				

Matrix Spike Dup (BGL0108-MSD1)

Source: 2311576-01

Prepared: 12/04/23 Analyzed: 12/05/23

C10-C28 (DRO)	531	50	mg/kg	500	25.3	101	70-130	15.9	20	
Surrogate: o-Terphenyl	12.3		"	12.5	98.7	30-150				

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Project: Civitas - Sam 25H-M166
Project Number: [none]
Project Manager: Andrew Newberry

Reported:
12/15/23 08:29

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGL0077 - EPA 5030 Soil MS

Blank (BGL0077-BLK1)

Prepared: 12/04/23 Analyzed: 12/05/23

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	0.0241		"	0.0333		72.2		40-150			
Surrogate: Fluoranthene-d10	0.0305		"	0.0333		91.4		40-150			

LCS (BGL0077-BS1)

Prepared: 12/04/23 Analyzed: 12/05/23

Acenaphthene	0.0206	0.00500	mg/kg	0.0333		61.7		31-137			
Anthracene	0.0213	0.00500	"	0.0333		64.0		30-120			
Benzo (a) anthracene	0.0202	0.00500	"	0.0333		60.6		30-120			
Benzo (a) pyrene	0.0198	0.00500	"	0.0333		59.5		30-120			
Benzo (b) fluoranthene	0.0246	0.00500	"	0.0333		73.9		30-120			
Benzo (k) fluoranthene	0.0315	0.00500	"	0.0333		94.6		30-120			
Chrysene	0.0233	0.00500	"	0.0333		70.0		30-120			
Dibenz (a,h) anthracene	0.0133	0.00500	"	0.0333		40.0		30-120			
Fluoranthene	0.0209	0.00500	"	0.0333		62.6		30-120			
Fluorene	0.0210	0.00500	"	0.0333		63.1		30-120			
Indeno (1,2,3-cd) pyrene	0.0162	0.00500	"	0.0333		48.7		30-120			
Pyrene	0.0334	0.00500	"	0.0333		100		35-142			
1-Methylnaphthalene	0.0243	0.00500	"	0.0333		72.8		35-142			
2-Methylnaphthalene	0.0261	0.00500	"	0.0333		78.2		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0207		"	0.0333		62.1		40-150			
Surrogate: Fluoranthene-d10	0.0305		"	0.0333		91.4		40-150			

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Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 08:29

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 BGL0077 - EPA 5030 Soil MS

Matrix Spike (BGL0077-MS1)

Source: 2311576-01

Prepared: 12/04/23 Analyzed: 12/05/23

Acenaphthene	0.0139	0.00500	mg/kg	0.0333	ND	41.7	31-137				
Anthracene	0.0137	0.00500	"	0.0333	ND	41.2	30-120				
Benzo (a) anthracene	0.0153	0.00500	"	0.0333	ND	45.9	30-120				
Benzo (a) pyrene	0.0194	0.00500	"	0.0333	ND	58.3	30-120				
Benzo (b) fluoranthene	0.0252	0.00500	"	0.0333	ND	75.7	30-120				
Benzo (k) fluoranthene	0.0306	0.00500	"	0.0333	ND	91.8	30-120				
Chrysene	0.0148	0.00500	"	0.0333	ND	44.5	30-120				
Dibenz (a,h) anthracene	0.0134	0.00500	"	0.0333	ND	40.2	30-120				
Fluoranthene	0.0148	0.00500	"	0.0333	ND	44.5	30-120				
Fluorene	0.0154	0.00500	"	0.0333	ND	46.3	30-120				
Indeno (1,2,3-cd) pyrene	0.0153	0.00500	"	0.0333	ND	45.8	30-120				
Pyrene	0.0246	0.00500	"	0.0333	ND	73.7	35-142				
1-Methylnaphthalene	0.0184	0.00500	"	0.0333	ND	55.1	15-130				
2-Methylnaphthalene	0.0189	0.00500	"	0.0333	ND	56.8	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0172		"	0.0333		51.5	40-150				
Surrogate: Fluoranthene-d10	0.0214		"	0.0333		64.1	40-150				

Matrix Spike Dup (BGL0077-MSD1)

Source: 2311576-01

Prepared: 12/04/23 Analyzed: 12/05/23

Acenaphthene	0.0159	0.00500	mg/kg	0.0333	ND	47.8	31-137	13.7	30
Anthracene	0.0167	0.00500	"	0.0333	ND	50.0	30-120	19.4	30
Benzo (a) anthracene	0.0150	0.00500	"	0.0333	ND	45.1	30-120	1.87	30
Benzo (a) pyrene	0.0174	0.00500	"	0.0333	ND	52.1	30-120	11.3	30
Benzo (b) fluoranthene	0.0218	0.00500	"	0.0333	ND	65.4	30-120	14.7	30
Benzo (k) fluoranthene	0.0248	0.00500	"	0.0333	ND	74.3	30-120	21.1	30
Chrysene	0.0148	0.00500	"	0.0333	ND	44.3	30-120	0.437	30
Dibenz (a,h) anthracene	0.0145	0.00500	"	0.0333	ND	43.6	30-120	8.05	30
Fluoranthene	0.0186	0.00500	"	0.0333	ND	55.7	30-120	22.4	30
Fluorene	0.0200	0.00500	"	0.0333	ND	60.1	30-120	26.0	30
Indeno (1,2,3-cd) pyrene	0.0157	0.00500	"	0.0333	ND	47.0	30-120	2.41	30
Pyrene	0.0233	0.00500	"	0.0333	ND	70.0	35-142	5.22	30
1-Methylnaphthalene	0.0163	0.00500	"	0.0333	ND	49.0	15-130	11.7	50
2-Methylnaphthalene	0.0171	0.00500	"	0.0333	ND	51.3	15-130	10.1	50
Surrogate: 2-Methylnaphthalene-d10	0.0159		"	0.0333		47.6	40-150		
Surrogate: Fluoranthene-d10	0.0258		"	0.0333		77.4	40-150		

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 08:29

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 BGL0106 - EPA 3050B

Blank (BGL0106-BLK1)

Prepared: 12/04/23 Analyzed: 12/07/23

Boron ND 2.00 mg/L

LCS (BGL0106-BS1)

Prepared: 12/04/23 Analyzed: 12/07/23

Boron 5.14 2.00 mg/L 5.00 103 80-120

Duplicate (BGL0106-DUP1)

Source: 2311559-01

Prepared: 12/04/23 Analyzed: 12/07/23

Boron 0.271 2.00 mg/L 0.285 4.94 20 J

Matrix Spike (BGL0106-MS1)

Source: 2311559-01

Prepared: 12/04/23 Analyzed: 12/07/23

Boron 5.18 2.00 mg/L 5.00 0.285 97.9 75-125

Matrix Spike Dup (BGL0106-MSD1)

Source: 2311559-01

Prepared: 12/04/23 Analyzed: 12/07/23

Boron 5.20 2.00 mg/L 5.00 0.285 98.4 75-125 0.484 25

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 08:29

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BGL0140 - EPA 3050B

Blank (BGL0140-BLK1)

Prepared & Analyzed: 12/05/23

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

LCS (BGL0140-BS1)

Prepared & Analyzed: 12/05/23

Arsenic	36.3	0.200	mg/kg wet	40.0	90.8	80-120
Barium	37.5	0.400	"	40.0	93.7	80-120
Cadmium	1.90	0.200	"	2.00	94.9	80-120
Copper	41.5	0.400	"	40.0	104	80-120
Lead	18.8	0.200	"	20.0	94.1	80-120
Nickel	40.2	0.400	"	40.0	100	80-120
Silver	1.90	0.0200	"	2.00	95.1	80-120
Zinc	40.0	0.400	"	40.0	100	80-120
Selenium	4.55	0.260	"	4.00	114	80-120

Duplicate (BGL0140-DUP1)

Source: 2311606-01

Prepared & Analyzed: 12/05/23

Arsenic	1.01	0.200	mg/kg dry	0.801	22.9	20	QR-01
Barium	13.6	0.400	"	13.2	2.94	20	
Cadmium	0.111	0.200	"	0.100	10.2	20	J
Copper	3.43	0.400	"	3.15	8.60	20	
Lead	5.35	0.200	"	5.25	1.89	20	
Nickel	1.87	0.400	"	1.78	4.77	20	
Silver	0.00745	0.0200	"	0.00652	13.3	20	J
Zinc	15.5	0.400	"	14.5	6.74	20	
Selenium	ND	0.260	"	ND		20	

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 08:29

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BGL0140 - EPA 3050B

Matrix Spike (BGL0140-MS1)	Source: 2311606-01			Prepared & Analyzed: 12/05/23						
Arsenic	41.3	0.200	mg/kg dry	46.5	0.801	87.0	75-125			
Barium	54.9	0.400	"	46.5	13.2	89.6	75-125			
Cadmium	2.39	0.200	"	2.33	0.100	98.4	75-125			
Copper	27.8	0.400	"	46.5	3.15	53.0	75-125			QM-07
Lead	28.5	0.200	"	23.3	5.25	99.8	75-125			
Nickel	25.1	0.400	"	46.5	1.78	50.0	75-125			QM-07
Silver	2.25	0.0200	"	2.33	0.00652	96.3	75-125			
Zinc	39.2	0.400	"	46.5	14.5	53.0	75-125			QM-07
Selenium	4.20	0.260	"	4.65	ND	90.3	75-125			

Matrix Spike Dup (BGL0140-MSD1)	Source: 2311606-01			Prepared & Analyzed: 12/05/23						
Arsenic	40.9	0.200	mg/kg dry	46.5	0.801	86.1	75-125	1.06	25	
Barium	54.4	0.400	"	46.5	13.2	88.5	75-125	0.902	25	
Cadmium	2.39	0.200	"	2.33	0.100	98.3	75-125	0.0779	25	
Copper	28.3	0.400	"	46.5	3.15	54.0	75-125	1.72	25	QM-07
Lead	28.5	0.200	"	23.3	5.25	99.8	75-125	0.0164	25	
Nickel	25.4	0.400	"	46.5	1.78	50.7	75-125	1.17	25	QM-07
Silver	2.25	0.0200	"	2.33	0.00652	96.3	75-125	0.00	25	
Zinc	39.5	0.400	"	46.5	14.5	53.7	75-125	0.796	25	QM-07
Selenium	4.30	0.260	"	4.65	ND	92.3	75-125	2.22	25	

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 08:29

Hexavalent Chromium by EPA Method 7196 - Quality Control

Summit Scientific

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

Batch BGL0093 - 3060A Mod

Blank (BGL0093-BLK1)

Prepared: 12/04/23 Analyzed: 12/05/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGL0093-BS1)

Prepared: 12/04/23 Analyzed: 12/05/23

Chromium, Hexavalent 25.0 0.30 mg/kg wet 25.0 100 80-120

Duplicate (BGL0093-DUP1)

Source: 2311483-06

Prepared: 12/04/23 Analyzed: 12/05/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGL0093-MS1)

Source: 2311483-06

Prepared: 12/04/23 Analyzed: 12/05/23

Chromium, Hexavalent 29.9 0.30 mg/kg dry 31.0 ND 96.6 75-125

Matrix Spike Dup (BGL0093-MSD1)

Source: 2311483-06

Prepared: 12/04/23 Analyzed: 12/05/23

Chromium, Hexavalent 29.7 0.30 mg/kg dry 31.0 ND 96.0 75-125 0.623 20

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 08:29

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

Summit Scientific

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

Batch BGL0385 - General Preparation

Blank (BGL0385-BLK1)

Prepared: 12/11/23 Analyzed: 12/14/23

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

LCS (BGL0385-BS1)

Prepared: 12/11/23 Analyzed: 12/14/23

Calcium	5.75	0.0500	mg/L wet	5.00	115	70-130
Magnesium	6.09	0.0500	"	5.00	122	70-130
Sodium	5.54	0.0500	"	5.00	111	70-130

Summit Scientific

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 08:29

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 BGL0119 - General Preparation

Duplicate (BGL0119-DUP1)

Source: 2311606-01

Prepared & Analyzed: 12/04/23

% Solids	85.8	%	85.9	0.187	20
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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 08:29

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

Summit Scientific

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

Batch BGL0400 - General Preparation

Blank (BGL0400-BLK1)

Prepared & Analyzed: 12/12/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGL0400-BS1)

Prepared & Analyzed: 12/12/23

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

Duplicate (BGL0400-DUP1)

Source: 2311564-21

Prepared & Analyzed: 12/12/23

Specific Conductance (EC) 0.971 0.0100 mmhos/cm 0.971 0.00 20

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 08:29

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

Summit Scientific

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

Batch BGL0401 - General Preparation

LCS (BGL0401-BS1)

Prepared & Analyzed: 12/12/23

pH	9.01	pH Units	9.18	98.1	95-105
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Duplicate (BGL0401-DUP1)

Source: 2311564-21

Prepared & Analyzed: 12/12/23

pH	7.66	pH Units	7.66	0.00	20
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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
12/15/23 08:29

Notes and Definitions

QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

December 15, 2023

Andrew Newberry

Eagle Environmental Consulting

8000 W 44th Ave

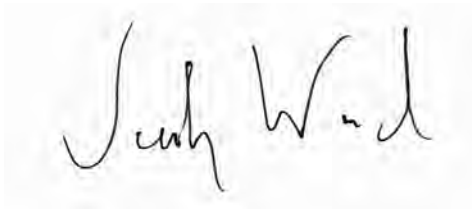
Wheat Ridge, CO 80033

RE: Civitas - Sam 25H-M166

Work Order # 2312012

Enclosed are the results of analyses for samples received by Summit Scientific on 12/01/23 14:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury

President



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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS-SS-09@5'	2312012-01	Soil	12/01/23 10:20	12/01/23 14:00
CS-SS-10@16'	2312012-02	Soil	12/01/23 10:30	12/01/23 14:00
CS-SS-11@5'	2312012-03	Soil	12/01/23 10:40	12/01/23 14:00
CS-SS-12@16'	2312012-04	Soil	12/01/23 10:50	12/01/23 14:00
CS-SS-13@5'	2312012-05	Soil	12/01/23 11:00	12/01/23 14:00
CS-SS-14@16'	2312012-06	Soil	12/01/23 11:10	12/01/23 14:00
CS-SS-15@5'	2312012-07	Soil	12/01/23 11:20	12/01/23 14:00
CS-SS-16@16'	2312012-08	Soil	12/01/23 11:30	12/01/23 14:00
CS-FS-02@18'	2312012-09	Soil	12/01/23 11:40	12/01/23 14:00

Summit Scientific

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

SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2312012	

Client: <i>Eagle Environmental Consulting</i>		Send Data To:		Send Invoice To:	
Address: <i>8000 W 44th Ave</i>		Project Manager: <i>Andrew Newberry</i>		Company: <i>Civitas</i>	
City/State/Zip: <i>Wheat Ridge, CO 80033</i>		E-Mail: <i>anewberry@eagle-enviro.com</i>		Project Name/Location:	
Phone: <i>303-433-0479</i>		Project Name: <i>Sam 25H-M166</i>		AFE#:	
Sampler Name: <i>TC</i>		Project Number: <i>—</i>		PO/Billing Codes:	
				Contact: <i>Costin</i>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested										Special Instructions
					HCl	HNO3	None	Other	Water	Soil													
1	CS-SS-09 @ 5'	12-1-23	1020	2			X			X			X	X	X	X	X	X	X	X	X	X	EC, SAR, pH =
2	CS-SS-10 @ 16'		1030																				Saturated Paste Prep
3	CS-SS-11 @ 5'		1040																				
4	CS-SS-12 @ 16'		1050																				
5	CS-SS-13 @ 5'		1100																				
6	CS-SS-14 @ 16'		1110																				
7	CS-SS-15 @ 5'		1120																				
8	CS-SS-16 @ 16'		1130																				
9	CS-FS-02 @ 18'	↓	1140	↓			↓			↓			↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
10																							
11																							
12																							
13																							
14																							
15																							

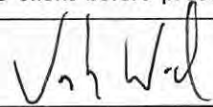
Relinquished by: <i>Trevor Cuyler</i>	Date/Time: <i>12-1-23/1400</i>	Received by: <i>John W. L.</i>	Date/Time: <i>12/1/23 14:00</i>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <i>2.7</i>	Corrected Temperature	IR gun #: <i>2</i>	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2312012Client: Eagle Civics Client Project ID: Sam 254-m166Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 2.7 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.

 Custodian Printed Name

12/1/23 14:00
 Date/Time



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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

CS-SS-09@5'
2312012-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/01/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0147	12/05/23	12/06/23	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	0.045	0.50		"	"	"	"	"	"	J

Date Sampled: **12/01/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		93.7 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/01/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	18	50	4.3	mg/kg	1	BGL0155	12/05/23	12/08/23	EPA 8015M	J
C28-C36 (ORO)	27	50	4.3	"	"	"	"	"	"	J

Date Sampled: **12/01/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		86.5 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 16:32

CS-SS-09@5'
2312012-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/01/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0099	12/04/23	12/06/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **12/01/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		78.8 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		67.9 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/01/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.0795	2.00	0.00690	mg/L	1	BGL0220	12/06/23	12/12/23	EPA 6020B	J

Total Metals by EPA 6020B

Date Sampled: **12/01/23 10:20**

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 - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

CS-SS-09@5'
2312012-01 (Soil)

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Total Metals by EPA 6020B

Arsenic	0.966	0.200	0.168	mg/kg dry	1	BGL0294	12/08/23	12/11/23	EPA 6020B	
Barium	113	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0686	0.200	0.00720	"	"	"	"	"	"	J
Copper	1.56	0.400	0.0209	"	"	"	"	"	"	
Lead	4.44	0.200	0.0550	"	"	"	"	"	"	
Nickel	2.00	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0356	0.0200	0.00267	"	"	"	"	"	"	
Zinc	6.64	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/01/23 10:20

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGL0164	12/05/23	12/06/23	EPA 7196A	

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

Date Sampled: 12/01/23 10:20

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	111	0.0500		mg/L dry	1	BGL0445	12/12/23	12/15/23	EPA 6020B	
Magnesium	8.50	0.0500		"	"	"	"	"	"	
Sodium	28.9	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/01/23 10:20

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.712	0.00100		units	1	BGL0600	12/15/23	12/15/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Eagle Environmental Consulting
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Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

CS-SS-09@5'
2312012-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/01/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	90.9			%	1	BGL0250	12/07/23	12/07/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/01/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.196	0.0100	0.00100	mmhos/cm	1	BGL0476	12/13/23	12/13/23	EPA 120.1	

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

Date Sampled: **12/01/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.77			pH Units	1	BGL0477	12/13/23	12/13/23	EPA 9045D	

Summit Scientific

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Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

CS-SS-10@16'
2312012-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/01/23 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0147	12/05/23	12/06/23	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	0.041	0.50		"	"	"	"	"	"	J

Date Sampled: **12/01/23 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		102 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		103 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/01/23 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	13	50	4.3	mg/kg	1	BGL0155	12/05/23	12/08/23	EPA 8015M	J
C28-C36 (ORO)	25	50	4.3	"	"	"	"	"	"	J

Date Sampled: **12/01/23 10:30**

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

PAH by EPA Method 8270D SIM

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Project: Civitas - Sam 25H-M166

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CS-SS-10@16'

2312012-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/01/23 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0099	12/04/23	12/06/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **12/01/23 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		82.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		68.2 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/01/23 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.0739	2.00	0.00690	mg/L	1	BGL0220	12/06/23	12/12/23	EPA 6020B	J

Total Metals by EPA 6020B

Date Sampled: **12/01/23 10:30**

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 - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

CS-SS-10@16'
2312012-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.905	0.200	0.168	mg/kg dry	1	BGL0294	12/08/23	12/11/23	EPA 6020B	
Barium	40.7	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0212	0.200	0.00720	"	"	"	"	"	"	J
Copper	0.846	0.400	0.0209	"	"	"	"	"	"	
Lead	5.39	0.200	0.0550	"	"	"	"	"	"	
Nickel	1.75	0.400	0.0610	"	"	"	"	"	"	
Silver	0.00573	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	10.3	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/01/23 10:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGL0164	12/05/23	12/06/23	EPA 7196A	

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

Date Sampled: 12/01/23 10:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	8.92	0.0500		mg/L dry	1	BGL0445	12/12/23	12/15/23	EPA 6020B	
Magnesium	3.28	0.0500		"	"	"	"	"	"	
Sodium	51.2	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/01/23 10:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.72	0.00100		units	1	BGL0600	12/15/23	12/15/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

CS-SS-10@16'
2312012-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/01/23 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	90.7			%	1	BGL0250	12/07/23	12/07/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/01/23 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.256	0.0100	0.00100	mmhos/cm	1	BGL0476	12/13/23	12/13/23	EPA 120.1	

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

Date Sampled: **12/01/23 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.94			pH Units	1	BGL0477	12/13/23	12/13/23	EPA 9045D	

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

CS-SS-11@5'
2312012-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/01/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0147	12/05/23	12/06/23	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	0.047	0.50		"	"	"	"	"	"	J

Date Sampled: **12/01/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		96.3 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/01/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	24	50	4.3	mg/kg	1	BGL0155	12/05/23	12/08/23	EPA 8015M	J
C28-C36 (ORO)	18	50	4.3	"	"	"	"	"	"	J

Date Sampled: **12/01/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		114 %		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 - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 16:32

CS-SS-11@5'
2312012-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/01/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0099	12/04/23	12/06/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **12/01/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		66.7 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		68.1 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/01/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.145	2.00	0.00690	mg/L	1	BGL0220	12/06/23	12/12/23	EPA 6020B	J

Total Metals by EPA 6020B

Date Sampled: **12/01/23 10:40**

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

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 16:32

CS-SS-11@5'
2312012-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.40	0.200	0.168	mg/kg dry	1	BGL0294	12/08/23	12/11/23	EPA 6020B	
Barium	154	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0884	0.200	0.00720	"	"	"	"	"	"	J
Copper	2.21	0.400	0.0209	"	"	"	"	"	"	
Lead	5.49	0.200	0.0550	"	"	"	"	"	"	
Nickel	2.58	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0309	0.0200	0.00267	"	"	"	"	"	"	
Zinc	8.69	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/01/23 10:40

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGL0164	12/05/23	12/06/23	EPA 7196A	

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

Date Sampled: 12/01/23 10:40

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	68.7	0.0500		mg/L dry	1	BGL0445	12/12/23	12/15/23	EPA 6020B	
Magnesium	2.04	0.0500		"	"	"	"	"	"	
Sodium	28.2	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/01/23 10:40

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.915	0.00100		units	1	BGL0600	12/15/23	12/15/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

CS-SS-11@5'
2312012-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/01/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	91.9			%	1	BGL0250	12/07/23	12/07/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/01/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.442	0.0100	0.00100	mmhos/cm	1	BGL0476	12/13/23	12/13/23	EPA 120.1	

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

Date Sampled: **12/01/23 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.45			pH Units	1	BGL0477	12/13/23	12/13/23	EPA 9045D	

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

CS-SS-12@16'
2312012-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/01/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0147	12/05/23	12/06/23	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	0.045	0.50		"	"	"	"	"	"	J

Date Sampled: **12/01/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		96.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/01/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	15	50	4.3	mg/kg	1	BGL0155	12/05/23	12/08/23	EPA 8015M	J
C28-C36 (ORO)	19	50	4.3	"	"	"	"	"	"	J

Date Sampled: **12/01/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		150 %		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 - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 16:32

CS-SS-12@16'

2312012-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/01/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0099	12/04/23	12/06/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **12/01/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		66.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		71.1 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/01/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	ND	2.00	0.00690	mg/L	1	BGL0220	12/06/23	12/12/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/01/23 10:50**

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 - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

CS-SS-12@16'
2312012-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.659	0.200	0.168	mg/kg dry	1	BGL0294	12/08/23	12/11/23	EPA 6020B	
Barium	93.9	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0427	0.200	0.00720	"	"	"	"	"	"	J
Copper	0.815	0.400	0.0209	"	"	"	"	"	"	
Lead	6.06	0.200	0.0550	"	"	"	"	"	"	
Nickel	2.12	0.400	0.0610	"	"	"	"	"	"	
Silver	0.00490	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	8.75	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/01/23 10:50

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGL0164	12/05/23	12/06/23	EPA 7196A	

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

Date Sampled: 12/01/23 10:50

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	6.42	0.0500		mg/L dry	1	BGL0445	12/12/23	12/15/23	EPA 6020B	
Magnesium	2.61	0.0500		"	"	"	"	"	"	
Sodium	36.4	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/01/23 10:50

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.06	0.00100		units	1	BGL0600	12/15/23	12/15/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

CS-SS-12@16'
2312012-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/01/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	89.9			%	1	BGL0250	12/07/23	12/07/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/01/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.196	0.0100	0.00100	mmhos/cm	1	BGL0476	12/13/23	12/13/23	EPA 120.1	

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

Date Sampled: **12/01/23 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.79			pH Units	1	BGL0477	12/13/23	12/13/23	EPA 9045D	

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

CS-SS-13@5'
2312012-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/01/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0147	12/05/23	12/06/23	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	0.047	0.50		"	"	"	"	"	"	J

Date Sampled: **12/01/23 11:00**

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

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/01/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	27	50	4.3	mg/kg	1	BGL0155	12/05/23	12/08/23	EPA 8015M	J
C28-C36 (ORO)	25	50	4.3	"	"	"	"	"	"	J

Date Sampled: **12/01/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		80.0 %		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 - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 16:32

CS-SS-13@5'
2312012-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/01/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0099	12/04/23	12/06/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **12/01/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		64.4 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		68.7 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/01/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.0365	2.00	0.00690	mg/L	1	BGL0220	12/06/23	12/12/23	EPA 6020B	J

Total Metals by EPA 6020B

Date Sampled: **12/01/23 11:00**

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

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

CS-SS-13@5'
2312012-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.12	0.200	0.168	mg/kg dry	1	BGL0294	12/08/23	12/11/23	EPA 6020B	
Barium	113	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0817	0.200	0.00720	"	"	"	"	"	"	J
Copper	1.63	0.400	0.0209	"	"	"	"	"	"	
Lead	4.36	0.200	0.0550	"	"	"	"	"	"	
Nickel	2.16	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0334	0.0200	0.00267	"	"	"	"	"	"	
Zinc	7.02	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/01/23 11:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGL0164	12/05/23	12/06/23	EPA 7196A	

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

Date Sampled: 12/01/23 11:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	99.4	0.0500		mg/L dry	1	BGL0445	12/12/23	12/15/23	EPA 6020B	
Magnesium	7.97	0.0500		"	"	"	"	"	"	
Sodium	24.4	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/01/23 11:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.633	0.00100		units	1	BGL0600	12/15/23	12/15/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: Civitas - Sam 25H-M166
Project Number: [none]
Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

CS-SS-13@5'
2312012-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/01/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	91.1			%	1	BGL0250	12/07/23	12/07/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/01/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.174	0.0100	0.00100	mmhos/cm	1	BGL0476	12/13/23	12/13/23	EPA 120.1	

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

Date Sampled: **12/01/23 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.86			pH Units	1	BGL0477	12/13/23	12/13/23	EPA 9045D	

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

CS-SS-14@16'
2312012-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/01/23 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0147	12/05/23	12/06/23	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	0.042	0.50		"	"	"	"	"	"	J

Date Sampled: **12/01/23 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		104 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		103 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/01/23 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	33	50	4.3	mg/kg	1	BGL0155	12/05/23	12/08/23	EPA 8015M	J
C28-C36 (ORO)	23	50	4.3	"	"	"	"	"	"	J

Date Sampled: **12/01/23 11:10**

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

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 16:32

CS-SS-14@16'

2312012-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/01/23 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0099	12/04/23	12/06/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **12/01/23 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		61.3 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		65.9 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/01/23 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	ND	2.00	0.00690	mg/L	1	BGL0220	12/06/23	12/12/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **12/01/23 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 - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

CS-SS-14@16'
2312012-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.895	0.200	0.168	mg/kg dry	1	BGL0294	12/08/23	12/11/23	EPA 6020B	
Barium	52.0	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0414	0.200	0.00720	"	"	"	"	"	"	J
Copper	0.734	0.400	0.0209	"	"	"	"	"	"	
Lead	5.42	0.200	0.0550	"	"	"	"	"	"	
Nickel	2.56	0.400	0.0610	"	"	"	"	"	"	
Silver	0.00534	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	8.88	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/01/23 11:10

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGL0164	12/05/23	12/06/23	EPA 7196A	

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

Date Sampled: 12/01/23 11:10

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	6.53	0.0500		mg/L dry	1	BGL0445	12/12/23	12/15/23	EPA 6020B	
Magnesium	2.85	0.0500		"	"	"	"	"	"	
Sodium	40.0	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/01/23 11:10

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.29	0.00100		units	1	BGL0600	12/15/23	12/15/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: Civitas - Sam 25H-M166
Project Number: [none]
Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

CS-SS-14@16'
2312012-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/01/23 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	89.9			%	1	BGL0250	12/07/23	12/07/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/01/23 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.208	0.0100	0.00100	mmhos/cm	1	BGL0476	12/13/23	12/13/23	EPA 120.1	

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

Date Sampled: **12/01/23 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.74			pH Units	1	BGL0477	12/13/23	12/13/23	EPA 9045D	

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

CS-SS-15@5'
2312012-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0147	12/05/23	12/06/23	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	0.044	0.50		"	"	"	"	"	"	J

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		98.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		104 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	31	50	4.3	mg/kg	1	BGL0155	12/05/23	12/08/23	EPA 8015M	J
C28-C36 (ORO)	22	50	4.3	"	"	"	"	"	"	J

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		121 %		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 - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 16:32

CS-SS-15@5'
2312012-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0099	12/04/23	12/06/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		58.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		67.0 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.100	2.00	0.00690	mg/L	1	BGL0220	12/06/23	12/12/23	EPA 6020B	J

Total Metals by EPA 6020B

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

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 - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

CS-SS-15@5'
2312012-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.34	0.200	0.168	mg/kg dry	1	BGL0294	12/08/23	12/11/23	EPA 6020B	
Barium	148	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0921	0.200	0.00720	"	"	"	"	"	"	J
Copper	2.30	0.400	0.0209	"	"	"	"	"	"	
Lead	5.80	0.200	0.0550	"	"	"	"	"	"	
Nickel	2.77	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0434	0.0200	0.00267	"	"	"	"	"	"	
Zinc	8.72	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/01/23 11:20

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGL0164	12/05/23	12/06/23	EPA 7196A	

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

Date Sampled: 12/01/23 11:20

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	68.9	0.0500		mg/L dry	1	BGL0445	12/12/23	12/15/23	EPA 6020B	
Magnesium	1.89	0.0500		"	"	"	"	"	"	
Sodium	24.9	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/01/23 11:20

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.808	0.00100		units	1	BGL0600	12/15/23	12/15/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

CS-SS-15@5'
2312012-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	92.1			%	1	BGL0250	12/07/23	12/07/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.421	0.0100	0.00100	mmhos/cm	1	BGL0476	12/13/23	12/13/23	EPA 120.1	

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

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.40			pH Units	1	BGL0477	12/13/23	12/13/23	EPA 9045D	

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

CS-SS-16@16'
2312012-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0147	12/05/23	12/06/23	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	0.041	0.50		"	"	"	"	"	"	J

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		104 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		103 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	25	50	4.3	mg/kg	1	BGL0155	12/05/23	12/08/23	EPA 8015M	J
C28-C36 (ORO)	23	50	4.3	"	"	"	"	"	"	J

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

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

PAH by EPA Method 8270D SIM

Summit Scientific

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Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 16:32

CS-SS-16@16'

2312012-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0099	12/04/23	12/06/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		52.7 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		60.9 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	ND	2.00	0.00690	mg/L	1	BGL0220	12/06/23	12/12/23	EPA 6020B	

Total Metals by EPA 6020B

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

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

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

CS-SS-16@16'
2312012-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.26	0.200	0.168	mg/kg dry	1	BGL0294	12/08/23	12/11/23	EPA 6020B	
Barium	42.2	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0379	0.200	0.00720	"	"	"	"	"	"	J
Copper	0.927	0.400	0.0209	"	"	"	"	"	"	
Lead	5.34	0.200	0.0550	"	"	"	"	"	"	
Nickel	1.80	0.400	0.0610	"	"	"	"	"	"	
Silver	0.00402	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	9.38	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/01/23 11:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGL0164	12/05/23	12/06/23	EPA 7196A	

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

Date Sampled: 12/01/23 11:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	21.8	0.0500		mg/L dry	1	BGL0445	12/12/23	12/15/23	EPA 6020B	
Magnesium	10.4	0.0500		"	"	"	"	"	"	
Sodium	25.9	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/01/23 11:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.14	0.00100		units	1	BGL0600	12/15/23	12/15/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Civitas - Sam 25H-M166
Project Number: [none]
Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

CS-SS-16@16'
2312012-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	89.7			%	1	BGL0250	12/07/23	12/07/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.136	0.0100	0.00100	mmhos/cm	1	BGL0476	12/13/23	12/13/23	EPA 120.1	

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

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.52			pH Units	1	BGL0477	12/13/23	12/13/23	EPA 9045D	

Summit Scientific

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

CS-FS-02@18'
2312012-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/01/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGL0147	12/05/23	12/06/23	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	0.043	0.50		"	"	"	"	"	"	J

Date Sampled: **12/01/23 11:40**

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

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/01/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	15	50	4.3	mg/kg	1	BGL0155	12/05/23	12/08/23	EPA 8015M	J
C28-C36 (ORO)	23	50	4.3	"	"	"	"	"	"	J

Date Sampled: **12/01/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		114 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

CS-FS-02@18'
2312012-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/01/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGL0099	12/04/23	12/06/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **12/01/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		42.7 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		53.0 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/01/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.0956	2.00	0.00690	mg/L	1	BGL0220	12/06/23	12/12/23	EPA 6020B	J

Total Metals by EPA 6020B

Date Sampled: **12/01/23 11:40**

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

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Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

CS-FS-02@18'
2312012-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.949	0.200	0.168	mg/kg dry	1	BGL0294	12/08/23	12/11/23	EPA 6020B	
Barium	38.3	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0385	0.200	0.00720	"	"	"	"	"	"	J
Copper	0.944	0.400	0.0209	"	"	"	"	"	"	
Lead	5.16	0.200	0.0550	"	"	"	"	"	"	
Nickel	2.12	0.400	0.0610	"	"	"	"	"	"	
Silver	0.00398	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	10.5	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 12/01/23 11:40

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGL0164	12/05/23	12/06/23	EPA 7196A	

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

Date Sampled: 12/01/23 11:40

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	8.17	0.0500		mg/L dry	1	BGL0445	12/12/23	12/15/23	EPA 6020B	
Magnesium	3.67	0.0500		"	"	"	"	"	"	
Sodium	43.7	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/01/23 11:40

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.19	0.00100		units	1	BGL0600	12/15/23	12/15/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project Number: [none]

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Reported:
12/15/23 16:32

CS-FS-02@18'
2312012-09 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/01/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	90.4			%	1	BGL0250	12/07/23	12/07/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/01/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.253	0.0100	0.00100	mmhos/cm	1	BGL0476	12/13/23	12/13/23	EPA 120.1	

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

Date Sampled: **12/01/23 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.40			pH Units	1	BGL0477	12/13/23	12/13/23	EPA 9045D	

Summit Scientific

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Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGL0147 - EPA 5030 Soil MS

Blank (BGL0147-BLK1)

Prepared: 12/05/23 Analyzed: 12/06/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0401		"	0.0400		100	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0407		"	0.0400		102	50-150			

LCS (BGL0147-BS1)

Prepared: 12/05/23 Analyzed: 12/06/23

Benzene	0.0892	0.0020	mg/kg	0.100		89.2	70-130			
Toluene	0.0905	0.0050	"	0.100		90.5	70-130			
Ethylbenzene	0.0878	0.0050	"	0.100		87.8	70-130			
m,p-Xylene	0.181	0.010	"	0.200		90.3	70-130			
o-Xylene	0.0931	0.0050	"	0.100		93.1	70-130			
1,2,4-Trimethylbenzene	0.109	0.0050	"	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.115	0.0050	"	0.100		115	70-130			
Naphthalene	0.101	0.0038	"	0.100		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0401		"	0.0400		100	50-150			
Surrogate: Toluene-d8	0.0411		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0430		"	0.0400		107	50-150			

Matrix Spike (BGL0147-MS1)

Source: 2311619-01

Prepared: 12/05/23 Analyzed: 12/06/23

Benzene	0.0850	0.0020	mg/kg	0.100	ND	85.0	70-130			
Toluene	0.0883	0.0050	"	0.100	ND	88.3	70-130			
Ethylbenzene	0.0880	0.0050	"	0.100	ND	88.0	70-130			
m,p-Xylene	0.183	0.010	"	0.200	ND	91.5	70-130			
o-Xylene	0.0913	0.0050	"	0.100	ND	91.3	70-130			
1,2,4-Trimethylbenzene	0.109	0.0050	"	0.100	ND	109	70-130			
1,3,5-Trimethylbenzene	0.109	0.0050	"	0.100	ND	109	70-130			
Naphthalene	0.106	0.0038	"	0.100	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0407		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0416		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0422		"	0.0400		106	50-150			

Summit Scientific

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGL0147 - EPA 5030 Soil MS

Matrix Spike Dup (BGL0147-MSD1)	Source: 2311619-01			Prepared: 12/05/23 Analyzed: 12/06/23						
Benzene	0.0826	0.0020	mg/kg	0.100	ND	82.6	70-130	2.90	30	
Toluene	0.0838	0.0050	"	0.100	ND	83.8	70-130	5.26	30	
Ethylbenzene	0.0871	0.0050	"	0.100	ND	87.1	70-130	1.06	30	
m,p-Xylene	0.179	0.010	"	0.200	ND	89.5	70-130	2.14	30	
o-Xylene	0.0901	0.0050	"	0.100	ND	90.1	70-130	1.32	30	
1,2,4-Trimethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130	3.16	30	
1,3,5-Trimethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130	3.95	30	
Naphthalene	0.0920	0.0038	"	0.100	ND	92.0	70-130	14.1	30	
Surrogate: 1,2-Dichloroethane-d4	0.0404		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0403		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0416		"	0.0400		104	50-150			

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGL0155 - EPA 3550A

Blank (BGL0155-BLK1)

Prepared: 12/05/23 Analyzed: 12/08/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	17.7		"	12.5	141		30-150			

LCS (BGL0155-BS1)

Prepared: 12/05/23 Analyzed: 12/08/23

C10-C28 (DRO)	514	50	mg/kg	500	103		70-130			
Surrogate: o-Terphenyl	15.5		"	12.5	124		30-150			

Matrix Spike (BGL0155-MS1)

Source: 2311619-01

Prepared: 12/05/23 Analyzed: 12/08/23

C10-C28 (DRO)	554	50	mg/kg	500	30.0	105	70-130			
Surrogate: o-Terphenyl	12.6		"	12.5	101		30-150			

Matrix Spike Dup (BGL0155-MSD1)

Source: 2311619-01

Prepared: 12/05/23 Analyzed: 12/07/23

C10-C28 (DRO)	391	50	mg/kg	500	30.0	72.2	70-130	34.4	20	QR-02
Surrogate: o-Terphenyl	7.00		"	12.5	56.0		30-150			

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

Project: Civitas - Sam 25H-M166
Project Number: [none]
Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

PAH by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch BGL0099 - EPA 5030 Soil MS

Blank (BGL0099-BLK1)

Prepared: 12/04/23 Analyzed: 12/06/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0302		"	0.0333		90.5	40-150			
Surrogate: Fluoranthene-d10	0.0304		"	0.0333		91.3	40-150			

LCS (BGL0099-BS1)

Prepared: 12/04/23 Analyzed: 12/06/23

Acenaphthene	0.0222	0.00500	mg/kg	0.0333	66.6	31-137
Anthracene	0.0224	0.00500	"	0.0333	67.2	30-120
Benzo (a) anthracene	0.0190	0.00500	"	0.0333	57.1	30-120
Benzo (a) pyrene	0.0179	0.00500	"	0.0333	53.7	30-120
Benzo (b) fluoranthene	0.0203	0.00500	"	0.0333	61.0	30-120
Benzo (k) fluoranthene	0.0214	0.00500	"	0.0333	64.1	30-120
Chrysene	0.0209	0.00500	"	0.0333	62.7	30-120
Dibenz (a,h) anthracene	0.0215	0.00500	"	0.0333	64.5	30-120
Fluoranthene	0.0207	0.00500	"	0.0333	62.1	30-120
Fluorene	0.0224	0.00500	"	0.0333	67.1	30-120
Indeno (1,2,3-cd) pyrene	0.0166	0.00500	"	0.0333	49.7	30-120
Pyrene	0.0186	0.00500	"	0.0333	55.9	35-142
1-Methylnaphthalene	0.0209	0.00500	"	0.0333	62.8	35-142
2-Methylnaphthalene	0.0170	0.00500	"	0.0333	51.1	35-142
Surrogate: 2-Methylnaphthalene-d10	0.0310		"	0.0333	92.9	40-150
Surrogate: Fluoranthene-d10	0.0322		"	0.0333	96.6	40-150

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGL0099 - EPA 5030 Soil MS

Matrix Spike (BGL0099-MS1)

Source: 2311495-01

Prepared: 12/04/23 Analyzed: 12/06/23

Acenaphthene	0.0127	0.00500	mg/kg	0.0333	ND	38.1	31-137			
Anthracene	0.0127	0.00500	"	0.0333	ND	38.0	30-120			
Benzo (a) anthracene	0.0103	0.00500	"	0.0333	ND	30.8	30-120			
Benzo (a) pyrene	0.0102	0.00500	"	0.0333	ND	30.6	30-120			
Benzo (b) fluoranthene	0.0117	0.00500	"	0.0333	ND	35.2	30-120			
Benzo (k) fluoranthene	0.0126	0.00500	"	0.0333	ND	37.7	30-120			
Chrysene	0.0117	0.00500	"	0.0333	ND	35.0	30-120			
Dibenz (a,h) anthracene	0.0115	0.00500	"	0.0333	ND	34.6	30-120			
Fluoranthene	0.0125	0.00500	"	0.0333	ND	37.4	30-120			
Fluorene	0.0132	0.00500	"	0.0333	ND	39.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0192	0.00500	"	0.0333	ND	57.7	30-120			
Pyrene	0.0174	0.00500	"	0.0333	ND	52.3	35-142			
1-Methylnaphthalene	0.0118	0.00500	"	0.0333	ND	35.5	15-130			
2-Methylnaphthalene	0.0105	0.00500	"	0.0333	ND	31.5	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0176		"	0.0333		52.9	40-150			
Surrogate: Fluoranthene-d10	0.0192		"	0.0333		57.5	40-150			

Matrix Spike Dup (BGL0099-MSD1)

Source: 2311495-01

Prepared: 12/04/23 Analyzed: 12/06/23

Acenaphthene	0.0137	0.00500	mg/kg	0.0333	ND	41.0	31-137	7.36	30	
Anthracene	0.0137	0.00500	"	0.0333	ND	41.2	30-120	8.19	30	
Benzo (a) anthracene	0.0111	0.00500	"	0.0333	ND	33.3	30-120	7.65	30	
Benzo (a) pyrene	0.0106	0.00500	"	0.0333	ND	31.9	30-120	3.99	30	
Benzo (b) fluoranthene	0.0124	0.00500	"	0.0333	ND	37.1	30-120	5.26	30	
Benzo (k) fluoranthene	0.0130	0.00500	"	0.0333	ND	39.1	30-120	3.65	30	
Chrysene	0.0127	0.00500	"	0.0333	ND	38.1	30-120	8.29	30	
Dibenz (a,h) anthracene	0.0122	0.00500	"	0.0333	ND	36.7	30-120	5.73	30	
Fluoranthene	0.0133	0.00500	"	0.0333	ND	39.8	30-120	6.11	30	
Fluorene	0.0142	0.00500	"	0.0333	ND	42.5	30-120	7.37	30	
Indeno (1,2,3-cd) pyrene	0.0100	0.00500	"	0.0333	ND	30.0	30-120	63.3	30	QR-02
Pyrene	0.0117	0.00500	"	0.0333	ND	35.2	35-142	39.1	30	QR-02
1-Methylnaphthalene	0.0129	0.00500	"	0.0333	ND	38.7	15-130	8.64	50	
2-Methylnaphthalene	0.00988	0.00500	"	0.0333	ND	29.6	15-130	6.07	50	
Surrogate: 2-Methylnaphthalene-d10	0.0205		"	0.0333		61.6	40-150			
Surrogate: Fluoranthene-d10	0.0203		"	0.0333		61.0	40-150			

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

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

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

Batch BGL0220 - EPA 3050B

Blank (BGL0220-BLK1)

Prepared: 12/06/23 Analyzed: 12/12/23

Boron ND 2.00 mg/L

LCS (BGL0220-BS1)

Prepared: 12/06/23 Analyzed: 12/12/23

Boron 5.08 2.00 mg/L 5.00 102 80-120

Duplicate (BGL0220-DUP1)

Source: 2312012-01

Prepared: 12/06/23 Analyzed: 12/12/23

Boron 0.0327 2.00 mg/L 0.0795 83.3 20 QR-01, J

Matrix Spike (BGL0220-MS1)

Source: 2312012-01

Prepared: 12/06/23 Analyzed: 12/12/23

Boron 6.33 2.00 mg/L 5.00 0.0795 125 75-125

Matrix Spike Dup (BGL0220-MSD1)

Source: 2312012-01

Prepared: 12/06/23 Analyzed: 12/12/23

Boron 6.33 2.00 mg/L 5.00 0.0795 125 75-125 0.00442 25

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BGL0294 - EPA 3050B

Blank (BGL0294-BLK1)

Prepared: 12/08/23 Analyzed: 12/11/23

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

LCS (BGL0294-BS1)

Prepared: 12/08/23 Analyzed: 12/11/23

Arsenic	42.4	0.200	mg/kg wet	40.0	106	80-120
Barium	36.9	0.400	"	40.0	92.3	80-120
Cadmium	1.96	0.200	"	2.00	97.8	80-120
Copper	41.8	0.400	"	40.0	105	80-120
Lead	19.1	0.200	"	20.0	95.3	80-120
Nickel	41.6	0.400	"	40.0	104	80-120
Silver	1.95	0.0200	"	2.00	97.7	80-120
Zinc	41.1	0.400	"	40.0	103	80-120
Selenium	4.14	0.260	"	4.00	103	80-120

Duplicate (BGL0294-DUP1)

Source: 2312012-01

Prepared: 12/08/23 Analyzed: 12/11/23

Arsenic	0.965	0.200	mg/kg dry	0.966	0.0911	20
Barium	111	0.400	"	113	1.87	20
Cadmium	0.0823	0.200	"	0.0686	18.1	20
Copper	1.67	0.400	"	1.56	6.54	20
Lead	4.61	0.200	"	4.44	3.63	20
Nickel	2.11	0.400	"	2.00	5.54	20
Silver	0.0326	0.0200	"	0.0356	9.03	20
Zinc	7.14	0.400	"	6.64	7.26	20
Selenium	ND	0.260	"	ND		20

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 16:32

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BGL0294 - EPA 3050B

Matrix Spike (BGL0294-MS1)		Source: 2312012-01			Prepared: 12/08/23 Analyzed: 12/11/23					
Arsenic	16.8	0.200	mg/kg dry	44.0	0.966	36.1	75-125			QM-07
Barium	143	0.400	"	44.0	113	67.4	75-125			QM-07
Cadmium	2.15	0.200	"	2.20	0.0686	94.7	75-125			
Copper	17.6	0.400	"	44.0	1.56	36.5	75-125			QM-07
Lead	22.8	0.200	"	22.0	4.44	83.7	75-125			
Nickel	18.4	0.400	"	44.0	2.00	37.2	75-125			QM-07
Silver	2.07	0.0200	"	2.20	0.0356	92.6	75-125			
Zinc	23.0	0.400	"	44.0	6.64	37.1	75-125			QM-07
Selenium	5.01	0.260	"	4.40	ND	114	75-125			

Matrix Spike Dup (BGL0294-MSD1)		Source: 2312012-01			Prepared: 12/08/23 Analyzed: 12/11/23					
Arsenic	17.4	0.200	mg/kg dry	44.0	0.966	37.4	75-125	3.41	25	QM-07
Barium	152	0.400	"	44.0	113	86.8	75-125	5.79	25	
Cadmium	2.30	0.200	"	2.20	0.0686	101	75-125	6.70	25	
Copper	18.3	0.400	"	44.0	1.56	38.1	75-125	3.92	25	QM-07
Lead	24.1	0.200	"	22.0	4.44	89.4	75-125	5.34	25	
Nickel	19.3	0.400	"	44.0	2.00	39.2	75-125	4.85	25	QM-07
Silver	2.23	0.0200	"	2.20	0.0356	99.6	75-125	7.18	25	
Zinc	23.3	0.400	"	44.0	6.64	38.0	75-125	1.68	25	QM-07
Selenium	5.16	0.260	"	4.40	ND	117	75-125	2.86	25	

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGL0164 - 3060A Mod

Blank (BGL0164-BLK1)

Prepared: 12/05/23 Analyzed: 12/06/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGL0164-BS1)

Prepared: 12/05/23 Analyzed: 12/06/23

Chromium, Hexavalent 24.6 0.30 mg/kg wet 25.0 98.4 80-120

Duplicate (BGL0164-DUP1)

Source: 2312012-01

Prepared: 12/05/23 Analyzed: 12/06/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGL0164-MS1)

Source: 2312012-01

Prepared: 12/05/23 Analyzed: 12/06/23

Chromium, Hexavalent 27.7 0.30 mg/kg dry 27.5 ND 101 75-125

Matrix Spike Dup (BGL0164-MSD1)

Source: 2312012-01

Prepared: 12/05/23 Analyzed: 12/06/23

Chromium, Hexavalent 27.6 0.30 mg/kg dry 27.5 ND 100 75-125 0.597 20

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 16:32

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

Summit Scientific

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

Batch BGL0445 - General Preparation

Blank (BGL0445-BLK1)

Prepared: 12/12/23 Analyzed: 12/15/23

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

LCS (BGL0445-BS1)

Prepared: 12/12/23 Analyzed: 12/15/23

Calcium	5.54	0.0500	mg/L wet	5.00	111	70-130
Magnesium	5.26	0.0500	"	5.00	105	70-130
Sodium	5.43	0.0500	"	5.00	109	70-130

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 16:32

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

Summit Scientific

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

Batch BGL0250 - General Preparation

Duplicate (BGL0250-DUP1)

Source: 2312010-01

Prepared & Analyzed: 12/07/23

% Solids	95.1	%	94.4	0.720	20
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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

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 BGL0476 - General Preparation

Blank (BGL0476-BLK1)

Prepared & Analyzed: 12/13/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGL0476-BS1)

Prepared & Analyzed: 12/13/23

Specific Conductance (EC) 0.150 0.0100 mmhos/cm 0.150 99.9 95-105

Duplicate (BGL0476-DUP1)

Source: 2311598-01

Prepared & Analyzed: 12/13/23

Specific Conductance (EC) 0.351 0.0100 mmhos/cm 0.337 4.15 20

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

12/15/23 16:32

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

Summit Scientific

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

Batch BGL0477 - General Preparation

LCS (BGL0477-BS1)

Prepared & Analyzed: 12/13/23

pH	9.19	pH Units	9.18	100	95-105
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Duplicate (BGL0477-DUP1)

Source: 2311598-01

Prepared & Analyzed: 12/13/23

pH	8.62	pH Units	8.60	0.232	20
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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
12/15/23 16:32

Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference