



ATTACHMENT B

Laboratory Analytical Reports

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

November 07, 2023

Andrew Newberry

Eagle Environmental Consulting

8000 W 44th Ave

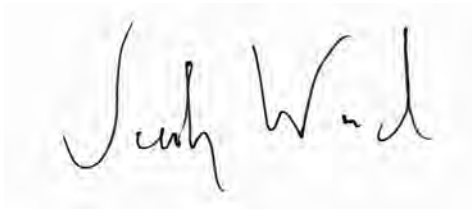
Wheat Ridge, CO 80033

RE: Civitas - Sam 25H-M166

Work Order # 2310517

Enclosed are the results of analyses for samples received by Summit Scientific on 10/26/23 17:33. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

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:
11/07/23 09:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HA-SS-09@15'	2310517-01	Soil	10/26/23 09:30	10/26/23 17:33
HA-SS-10@15'	2310517-02	Soil	10/26/23 09:50	10/26/23 17:33
HA-SS-11@15'	2310517-03	Soil	10/26/23 10:35	10/26/23 17:33
HA-SS-12@15'	2310517-04	Soil	10/26/23 10:00	10/26/23 17:33
HA-SS-13@15'	2310517-05	Soil	10/26/23 11:15	10/26/23 17:33
HA-SS-14@15'	2310517-06	Soil	10/26/23 11:45	10/26/23 17:33

Summit Scientific

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

SUMMIT SCIENTIFIC

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

Lab ID	Page <u>1</u> of <u>1</u>
2310517	

Client: <u>Eagle Env. Consulting</u>		Send Data To:		Send Invoice To:	
Address: <u>8000 W. 44th Ave</u>		Project Manager: <u>A. Newberry</u>		Company: <u>Civiks</u>	
City/State/Zip: <u>Wheat Ridge, CO 80033</u>		E-Mail: <u>anewberry@eagle-enviro.com</u>		Project Name/Location:	
Phone: <u>(303) 433-0477</u>		Project Name: <u>Sam 25H-M 1146</u>		AFE#:	
Sampler Name: <u>TC /BU</u>		Project Number: <u>-</u>		PO/Billing Codes:	
				Contact: <u>Costin</u>	

					Preservative				Matrix			Analysis Requested								Special Instructions						
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other _____	Water	Soil	Air-Canister #	Other _____	6,8,10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40,42,44,46,48,50,52,54,56,58,60,62,64,66,68,70,72,74,76,78,80,82,84,86,88,90,92,94,96,98,100	500/1000	1000/2000	1000/5000	EC - 900A	SAR - 200B	pH - 9045	Bottom - Flat Water Sol	Table 915 Muds	Table 915 - 6020	Cr VI	7194		
1	HA-SS-09 @ 15'	10-26-23	0930	2			X			X			X	X	X	X	X	X	X	X	X	X	X			EC/SAR/pH = Sat.
2	HA-SS-10 @ 15'		0930																							Part 100
3	HA-SS-11 @ 15'		1035																							
4	HA-SS-12 @ 15'		1000																							
5	HA-SS-13 @ 15'		1115																							
6	HA-SS-14 @ 15'		1145																							
7																										
8																										
9																										
10																										
11																										
12																										
13																										
14																										
15																										

Relinquished by: <u>Trevor Copple</u>	Date/Time: <u>10-26-23 1730</u>	Received by: <u>John W. J.</u>	Date/Time: <u>10-26-23 1735</u>	TAT Business Days	Field DO	Notes:
				Same Day <input checked="" type="checkbox"/>	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: <u>6.5</u>	Corrected Temperature	IR gun #: <u>2</u>	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2310517Client: Eagle Environmental Consulting 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) 0.5 Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ON ICE
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SAME DAY
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe 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.Josh

Custodian Printed Name

10-26-23

Date/Time

1733



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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
11/07/23 09:00

HA-SS-09@15'

2310517-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/26/23 09:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ1092	10/26/23	10/26/23	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	0.038	0.50		"	"	"	"	"	"	J

Date Sampled: **10/26/23 09:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		75.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		84.9 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.8 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/26/23 09:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	28	50	4.3	mg/kg	1	BGJ1093	10/26/23	10/26/23	EPA 8015M	J
C28-C36 (ORO)	11	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/26/23 09:30**

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

PAH by EPA Method 8270D SIM

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Project Manager: Andrew Newberry

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HA-SS-09@15'

2310517-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/26/23 09:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ1100	10/27/23	10/28/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **10/26/23 09:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		52.2 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		46.4 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/26/23 09:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	ND	2.00	0.00690	mg/L	1	BGJ1114	10/27/23	11/01/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/26/23 09:30**

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:
11/07/23 09:00

HA-SS-09@15'
2310517-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.59	0.200	0.168	mg/kg dry	1	BGJ1171	10/30/23	10/31/23	EPA 6020B	
Barium	28.6	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0472	0.200	0.00720	"	"	"	"	"	"	J
Copper	1.63	0.400	0.0209	"	"	"	"	"	"	
Lead	4.81	0.200	0.0550	"	"	"	"	"	"	
Nickel	3.41	0.400	0.0610	"	"	"	"	"	"	
Silver	0.00347	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	16.8	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/26/23 09:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGJ1117	10/27/23	10/27/23	EPA 7196A	

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

Date Sampled: 10/26/23 09:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	52.2	0.0500		mg/L dry	1	BGJ1097	10/26/23	10/31/23	EPA 6020B	
Magnesium	22.8	0.0500		"	"	"	"	"	"	
Sodium	46.2	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/26/23 09:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.34	0.00100		units	1	BGJ1245	10/31/23	10/31/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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11/07/23 09:00

HA-SS-09@15'
2310517-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/26/23 09:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	92.3			%	1	BGJ1136	10/27/23	10/27/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/26/23 09:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.244	0.0100	0.00100	mmhos/cm	1	BGJ1099	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/26/23 09:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.74			pH Units	1	BGJ1101	10/27/23	10/30/23	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:
11/07/23 09:00

HA-SS-10@15'
2310517-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/26/23 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Toluene	0.0047	0.0050	0.00025	mg/kg	1	BGJ1092	10/26/23	10/26/23	EPA 8260B	J
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	0.019	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.0044	0.0050	0.00024	"	"	"	"	"	"	J
1,3,5-Trimethylbenzene	0.0086	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.0038	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.82	0.50		"	"	"	"	"	"	

Date Sampled: **10/26/23 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		76.3 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		83.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.0 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/26/23 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	33	50	4.3	mg/kg	1	BGJ1093	10/26/23	10/26/23	EPA 8015M	J
C28-C36 (ORO)	11	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/26/23 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		112 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **10/26/23 09:50**

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

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Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/07/23 09:00

HA-SS-10@15'

2310517-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ1100	10/27/23	10/28/23	EPA 8270D SIM
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"

Date Sampled: **10/26/23 09:50**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		54.8 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		52.0 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/26/23 09:50**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0189	2.00	0.00690	mg/L	1	BGJ1114	10/27/23	11/01/23	EPA 6020B	J

Total Metals by EPA 6020B

Date Sampled: **10/26/23 09:50**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.17	0.200	0.168	mg/kg dry	1	BGJ1171	10/30/23	10/31/23	EPA 6020B	
Barium	30.5	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0453	0.200	0.00720	"	"	"	"	"	"	J
Copper	2.16	0.400	0.0209	"	"	"	"	"	"	

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Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/07/23 09:00

HA-SS-10@15'
2310517-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Lead	5.92	0.200	0.0550	mg/kg dry	1	BGJ1171	10/30/23	10/31/23	EPA 6020B	
Nickel	3.77	0.400	0.0610	"	"	"	"	"	"	
Silver	0.00398	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	20.2	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/26/23 09:50**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGJ1117	10/27/23	10/27/23	EPA 7196A	

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

Date Sampled: **10/26/23 09:50**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	43.1	0.0500		mg/L dry	1	BGJ1097	10/26/23	10/31/23	EPA 6020B	
Magnesium	26.5	0.0500		"	"	"	"	"	"	
Sodium	112	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/26/23 09:50**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.31	0.00100		units	1	BGJ1245	10/31/23	10/31/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/26/23 09:50**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.3			%	1	BGJ1136	10/27/23	10/27/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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:

11/07/23 09:00

HA-SS-10@15'

2310517-02 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/26/23 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.779	0.0100	0.00100	mmhos/cm	1	BGJ1099	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/26/23 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.79			pH Units	1	BGJ1101	10/27/23	10/30/23	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:

11/07/23 09:00

HA-SS-10@15'

2310517-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/26/23 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGK0022	10/26/23	11/01/23	EPA 8260B	

Date Sampled: **10/26/23 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		102 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		107 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %		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:

11/07/23 09:00

HA-SS-11@15'

2310517-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/26/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ1092	10/26/23	10/26/23	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	0.039	0.50		"	"	"	"	"	"	J

Date Sampled: **10/26/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		74.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		83.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.5 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/26/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	42	50	4.3	mg/kg	1	BGJ1093	10/26/23	10/26/23	EPA 8015M	J
C28-C36 (ORO)	11	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/26/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		82.8 %		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:

11/07/23 09:00

HA-SS-11@15'

2310517-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/26/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ1100	10/27/23	10/28/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **10/26/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		60.8 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		55.0 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/26/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.00762	2.00	0.00690	mg/L	1	BGJ1114	10/27/23	11/01/23	EPA 6020B	J

Total Metals by EPA 6020B

Date Sampled: **10/26/23 10:35**

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:
11/07/23 09:00

HA-SS-11@15'
2310517-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.85	0.200	0.168	mg/kg dry	1	BGJ1171	10/30/23	10/31/23	EPA 6020B	
Barium	50.6	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0760	0.200	0.00720	"	"	"	"	"	"	J
Copper	2.44	0.400	0.0209	"	"	"	"	"	"	
Lead	6.84	0.200	0.0550	"	"	"	"	"	"	
Nickel	4.14	0.400	0.0610	"	"	"	"	"	"	
Silver	0.00373	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	22.6	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/26/23 10:35

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGJ1117	10/27/23	10/27/23	EPA 7196A	

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

Date Sampled: 10/26/23 10:35

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	13.9	0.0500		mg/L dry	1	BGJ1097	10/26/23	10/31/23	EPA 6020B	
Magnesium	7.42	0.0500		"	"	"	"	"	"	
Sodium	68.8	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/26/23 10:35

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.71	0.00100		units	1	BGJ1245	10/31/23	10/31/23	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:
11/07/23 09:00

HA-SS-11@15'
2310517-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/26/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	85.8			%	1	BGJ1136	10/27/23	10/27/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/26/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.382	0.0100	0.00100	mmhos/cm	1	BGJ1099	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/26/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.21			pH Units	1	BGJ1101	10/27/23	10/30/23	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:

11/07/23 09:00

HA-SS-12@15'

2310517-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/26/23 10:00

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ1092	10/26/23	10/26/23	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	0.039	0.50		"	"	"	"	"	"	J

Date Sampled: 10/26/23 10:00

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		74.4 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		83.0 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.7 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 10/26/23 10:00

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	47	50	4.3	mg/kg	1	BGJ1093	10/26/23	10/26/23	EPA 8015M	J
C28-C36 (ORO)	12	50	4.3	"	"	"	"	"	"	J

Date Sampled: 10/26/23 10:00

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		90.0 %		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:

11/07/23 09:00

HA-SS-12@15'

2310517-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/26/23 10:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ1100	10/27/23	10/28/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **10/26/23 10:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		63.3 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		54.4 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/26/23 10:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0223	2.00	0.00690	mg/L	1	BGJ1114	10/27/23	11/01/23	EPA 6020B	J

Total Metals by EPA 6020B

Date Sampled: **10/26/23 10:00**

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
11/07/23 09:00

HA-SS-12@15'
2310517-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.93	0.200	0.168	mg/kg dry	1	BGJ1171	10/30/23	10/31/23	EPA 6020B	
Barium	51.0	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0592	0.200	0.00720	"	"	"	"	"	"	J
Copper	1.57	0.400	0.0209	"	"	"	"	"	"	
Lead	4.00	0.200	0.0550	"	"	"	"	"	"	
Nickel	2.61	0.400	0.0610	"	"	"	"	"	"	
Silver	0.00512	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	13.1	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/26/23 10:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGJ1117	10/27/23	10/27/23	EPA 7196A	

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

Date Sampled: 10/26/23 10:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	17.8	0.0500		mg/L dry	1	BGJ1097	10/26/23	10/31/23	EPA 6020B	
Magnesium	8.70	0.0500		"	"	"	"	"	"	
Sodium	109	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/26/23 10:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.29	0.00100		units	1	BGJ1245	10/31/23	10/31/23	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:
11/07/23 09:00

HA-SS-12@15'
2310517-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/26/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	85.9			%	1	BGJ1136	10/27/23	10/27/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/26/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.607	0.0100	0.00100	mmhos/cm	1	BGJ1099	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/26/23 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.25			pH Units	1	BGJ1101	10/27/23	10/30/23	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:

11/07/23 09:00

HA-SS-13@15'

2310517-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/26/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ1092	10/26/23	10/26/23	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	0.036	0.50		"	"	"	"	"	"	J

Date Sampled: **10/26/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		78.1 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		87.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.7 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/26/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	45	50	4.3	mg/kg	1	BGJ1093	10/26/23	10/26/23	EPA 8015M	J
C28-C36 (ORO)	11	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/26/23 11:15**

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

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/07/23 09:00

HA-SS-13@15'

2310517-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/26/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ1100	10/27/23	10/28/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **10/26/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		62.4 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		55.1 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/26/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.0462	2.00	0.00690	mg/L	1	BGJ1114	10/27/23	11/01/23	EPA 6020B	J

Total Metals by EPA 6020B

Date Sampled: **10/26/23 11:15**

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:
11/07/23 09:00

HA-SS-13@15'
2310517-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.56	0.200	0.168	mg/kg dry	1	BGJ1171	10/30/23	10/31/23	EPA 6020B	
Barium	51.8	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0831	0.200	0.00720	"	"	"	"	"	"	J
Copper	1.86	0.400	0.0209	"	"	"	"	"	"	
Lead	5.25	0.200	0.0550	"	"	"	"	"	"	
Nickel	3.55	0.400	0.0610	"	"	"	"	"	"	
Silver	0.00484	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	15.6	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/26/23 11:15

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGJ1117	10/27/23	10/27/23	EPA 7196A	

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

Date Sampled: 10/26/23 11:15

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	11.6	0.0500		mg/L dry	1	BGJ1097	10/26/23	10/31/23	EPA 6020B	
Magnesium	4.83	0.0500		"	"	"	"	"	"	
Sodium	63.0	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/26/23 11:15

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.92	0.00100		units	1	BGJ1245	10/31/23	10/31/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:
11/07/23 09:00

HA-SS-13@15'
2310517-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/26/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	90.9			%	1	BGJ1136	10/27/23	10/27/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/26/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.365	0.0100	0.00100	mmhos/cm	1	BGJ1099	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/26/23 11:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	9.04			pH Units	1	BGJ1101	10/27/23	10/30/23	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:

11/07/23 09:00

HA-SS-14@15'

2310517-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/26/23 11:45

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ1092	10/26/23	10/26/23	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: 10/26/23 11:45

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		75.4 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		84.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.0 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 10/26/23 11:45

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BGJ1093	10/26/23	10/26/23	EPA 8015M	
C28-C36 (ORO)	11	50	4.3	"	"	"	"	"	"	J

Date Sampled: 10/26/23 11:45

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

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/07/23 09:00

HA-SS-14@15'

2310517-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/26/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ1100	10/27/23	10/28/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **10/26/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		62.7 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		54.7 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/26/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.0467	2.00	0.00690	mg/L	1	BGJ1114	10/27/23	11/01/23	EPA 6020B	J

Total Metals by EPA 6020B

Date Sampled: **10/26/23 11:45**

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

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Project Number: [none]

Project Manager: Andrew Newberry

Reported:
11/07/23 09:00

HA-SS-14@15'
2310517-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.51	0.200	0.168	mg/kg dry	1	BGJ1171	10/30/23	10/31/23	EPA 6020B	
Barium	51.7	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0712	0.200	0.00720	"	"	"	"	"	"	J
Copper	1.79	0.400	0.0209	"	"	"	"	"	"	
Lead	5.38	0.200	0.0550	"	"	"	"	"	"	
Nickel	3.25	0.400	0.0610	"	"	"	"	"	"	
Silver	0.00434	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	15.3	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/26/23 11:45

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGJ1117	10/27/23	10/27/23	EPA 7196A	

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

Date Sampled: 10/26/23 11:45

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	11.0	0.0500		mg/L dry	1	BGJ1097	10/26/23	10/31/23	EPA 6020B	
Magnesium	4.43	0.0500		"	"	"	"	"	"	
Sodium	58.2	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/26/23 11:45

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.75	0.00100		units	1	BGJ1245	10/31/23	10/31/23	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:
11/07/23 09:00

HA-SS-14@15'
2310517-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/26/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	92.1			%	1	BGJ1136	10/27/23	10/27/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/26/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.331	0.0100	0.00100	mmhos/cm	1	BGJ1099	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/26/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.93			pH Units	1	BGJ1101	10/27/23	10/30/23	EPA 9045D	

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Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/07/23 09:00

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 BGJ1092 - EPA 5030 Soil MS

Blank (BGJ1092-BLK1)

Prepared: 10/26/23 Analyzed: 10/27/23

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	0.0282		"	0.0400		70.4	50-150			
Surrogate: Toluene-d8	0.0331		"	0.0400		82.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0335		"	0.0400		83.8	50-150			

LCS (BGJ1092-BS1)

Prepared: 10/26/23 Analyzed: 10/27/23

Benzene	0.102	0.0020	mg/kg	0.100		102	70-130			
Toluene	0.0837	0.0050	"	0.100		83.7	70-130			
Ethylbenzene	0.0910	0.0050	"	0.100		91.0	70-130			
m,p-Xylene	0.189	0.010	"	0.200		94.4	70-130			
o-Xylene	0.0919	0.0050	"	0.100		91.9	70-130			
1,2,4-Trimethylbenzene	0.0920	0.0050	"	0.100		92.0	70-130			
1,3,5-Trimethylbenzene	0.0929	0.0050	"	0.100		92.9	70-130			
Naphthalene	0.0902	0.0038	"	0.100		90.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0281		"	0.0400		70.4	50-150			
Surrogate: Toluene-d8	0.0339		"	0.0400		84.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0346		"	0.0400		86.6	50-150			

Matrix Spike (BGJ1092-MS1)

Source: 2310452-02

Prepared: 10/26/23 Analyzed: 10/27/23

Benzene	0.0916	0.0020	mg/kg	0.100	ND	91.6	70-130			
Toluene	0.0718	0.0050	"	0.100	ND	71.8	70-130			
Ethylbenzene	0.0800	0.0050	"	0.100	ND	80.0	70-130			
m,p-Xylene	0.166	0.010	"	0.200	ND	83.0	70-130			
o-Xylene	0.0816	0.0050	"	0.100	ND	81.6	70-130			
1,2,4-Trimethylbenzene	0.0831	0.0050	"	0.100	ND	83.1	70-130			
1,3,5-Trimethylbenzene	0.0812	0.0050	"	0.100	ND	81.2	70-130			
Naphthalene	0.0957	0.0038	"	0.100	ND	95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0307		"	0.0400		76.8	50-150			
Surrogate: Toluene-d8	0.0333		"	0.0400		83.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0350		"	0.0400		87.6	50-150			

Summit Scientific

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Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/07/23 09:00

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 BGJ1092 - EPA 5030 Soil MS

Matrix Spike Dup (BGJ1092-MSD1)

Source: 2310452-02

Prepared: 10/26/23 Analyzed: 10/27/23

Benzene	0.0863	0.0020	mg/kg	0.100	ND	86.3	70-130	5.94	30	
Toluene	0.0713	0.0050	"	0.100	ND	71.3	70-130	0.629	30	
Ethylbenzene	0.0756	0.0050	"	0.100	ND	75.6	70-130	5.67	30	
m,p-Xylene	0.157	0.010	"	0.200	ND	78.4	70-130	5.65	30	
o-Xylene	0.0775	0.0050	"	0.100	ND	77.5	70-130	5.13	30	
1,2,4-Trimethylbenzene	0.0783	0.0050	"	0.100	ND	78.3	70-130	5.98	30	
1,3,5-Trimethylbenzene	0.0769	0.0050	"	0.100	ND	76.9	70-130	5.35	30	
Naphthalene	0.0955	0.0038	"	0.100	ND	95.5	70-130	0.251	30	
Surrogate: 1,2-Dichloroethane-d4	0.0294		"	0.0400		73.5	50-150			
Surrogate: Toluene-d8	0.0344		"	0.0400		85.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0350		"	0.0400		87.5	50-150			

Batch BGK0022 - EPA 5030 Soil MS

Blank (BGK0022-BLK1)

Prepared & Analyzed: 11/01/23

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	0.0399		"	0.0400		99.8	50-150			
Surrogate: Toluene-d8	0.0459		"	0.0400		115	50-150			
Surrogate: 4-Bromofluorobenzene	0.0407		"	0.0400		102	50-150			

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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:

11/07/23 09:00

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGK0022 - EPA 5030 Soil MS

LCS (BGK0022-BS1)

Prepared & Analyzed: 11/01/23

Benzene	0.124	0.0020	mg/kg	0.100		124	70-130			
Toluene	0.130	0.0050	"	0.100		130	70-130			
Ethylbenzene	0.115	0.0050	"	0.100		115	70-130			
m,p-Xylene	0.224	0.010	"	0.200		112	70-130			
o-Xylene	0.105	0.0050	"	0.100		105	70-130			
1,2,4-Trimethylbenzene	0.110	0.0050	"	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.110	0.0050	"	0.100		110	70-130			
Naphthalene	0.110	0.0038	"	0.100		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0410		"	0.0400		103	50-150			
Surrogate: Toluene-d8	0.0449		"	0.0400		112	50-150			
Surrogate: 4-Bromofluorobenzene	0.0379		"	0.0400		94.8	50-150			

Matrix Spike (BGK0022-MS1)

Source: 2310583-01

Prepared & Analyzed: 11/01/23

Benzene	0.108	0.0020	mg/kg	0.100	ND	108	70-130			
Toluene	0.111	0.0050	"	0.100	ND	111	70-130			
Ethylbenzene	0.0992	0.0050	"	0.100	ND	99.2	70-130			
m,p-Xylene	0.193	0.010	"	0.200	ND	96.6	70-130			
o-Xylene	0.0941	0.0050	"	0.100	ND	94.1	70-130			
1,2,4-Trimethylbenzene	0.0941	0.0050	"	0.100	ND	94.1	70-130			
1,3,5-Trimethylbenzene	0.0945	0.0050	"	0.100	ND	94.5	70-130			
Naphthalene	0.118	0.0038	"	0.100	ND	118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0407		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0435		"	0.0400		109	50-150			
Surrogate: 4-Bromofluorobenzene	0.0412		"	0.0400		103	50-150			

Matrix Spike Dup (BGK0022-MSD1)

Source: 2310583-01

Prepared & Analyzed: 11/01/23

Benzene	0.109	0.0020	mg/kg	0.100	ND	109	70-130	0.749	30	
Toluene	0.115	0.0050	"	0.100	ND	115	70-130	3.63	30	
Ethylbenzene	0.0998	0.0050	"	0.100	ND	99.8	70-130	0.573	30	
m,p-Xylene	0.192	0.010	"	0.200	ND	95.9	70-130	0.701	30	
o-Xylene	0.0919	0.0050	"	0.100	ND	91.9	70-130	2.32	30	
1,2,4-Trimethylbenzene	0.0923	0.0050	"	0.100	ND	92.3	70-130	1.87	30	
1,3,5-Trimethylbenzene	0.0939	0.0050	"	0.100	ND	93.9	70-130	0.605	30	
Naphthalene	0.119	0.0038	"	0.100	ND	119	70-130	0.758	30	
Surrogate: 1,2-Dichloroethane-d4	0.0413		"	0.0400		103	50-150			
Surrogate: Toluene-d8	0.0443		"	0.0400		111	50-150			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		100	50-150			

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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:

11/07/23 09:00

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 BGJ1093 - EPA 3550A

Blank (BGJ1093-BLK1)

Prepared & Analyzed: 10/26/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	18.1		"	12.5		145	30-150			

LCS (BGJ1093-BS1)

Prepared: 10/26/23 Analyzed: 10/27/23

C10-C28 (DRO)	530	50	mg/kg	500		106	70-130			
Surrogate: o-Terphenyl	12.7		"	12.5		102	30-150			

Matrix Spike (BGJ1093-MS1)

Source: 2310452-02

Prepared: 10/26/23 Analyzed: 10/27/23

C10-C28 (DRO)	499	50	mg/kg	500	14.7	96.9	70-130			
Surrogate: o-Terphenyl	13.4		"	12.5		108	30-150			

Matrix Spike Dup (BGJ1093-MSD1)

Source: 2310452-02

Prepared: 10/26/23 Analyzed: 10/27/23

C10-C28 (DRO)	508	50	mg/kg	500	14.7	98.7	70-130	1.76	20	
Surrogate: o-Terphenyl	14.8		"	12.5		118	30-150			

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:
11/07/23 09:00

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 BGJ1100 - EPA 5030 Soil MS

Blank (BGJ1100-BLK1)

Prepared & Analyzed: 10/27/23

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	0.0301		"	0.0333		90.4		40-150			
Surrogate: Fluoranthene-d10	0.0282		"	0.0333		84.7		40-150			

LCS (BGJ1100-BS1)

Prepared & Analyzed: 10/27/23

Acenaphthene	0.0250	0.00500	mg/kg	0.0333		75.1		31-137			
Anthracene	0.0288	0.00500	"	0.0333		86.3		30-120			
Benzo (a) anthracene	0.0270	0.00500	"	0.0333		81.0		30-120			
Benzo (a) pyrene	0.0235	0.00500	"	0.0333		70.6		30-120			
Benzo (b) fluoranthene	0.0257	0.00500	"	0.0333		77.2		30-120			
Benzo (k) fluoranthene	0.0251	0.00500	"	0.0333		75.2		30-120			
Chrysene	0.0287	0.00500	"	0.0333		86.1		30-120			
Dibenz (a,h) anthracene	0.0233	0.00500	"	0.0333		70.0		30-120			
Fluoranthene	0.0280	0.00500	"	0.0333		84.1		30-120			
Fluorene	0.0245	0.00500	"	0.0333		73.5		30-120			
Indeno (1,2,3-cd) pyrene	0.0251	0.00500	"	0.0333		75.2		30-120			
Pyrene	0.0240	0.00500	"	0.0333		72.0		35-142			
1-Methylnaphthalene	0.0220	0.00500	"	0.0333		65.9		35-142			
2-Methylnaphthalene	0.0236	0.00500	"	0.0333		70.9		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0311		"	0.0333		93.2		40-150			
Surrogate: Fluoranthene-d10	0.0299		"	0.0333		89.7		40-150			

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:
11/07/23 09:00

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 BGJ1100 - EPA 5030 Soil MS

Matrix Spike (BGJ1100-MS1)

Source: 2310452-02

Prepared & Analyzed: 10/27/23

Acenaphthene	0.0164	0.00500	mg/kg	0.0333	ND	49.1	31-137		
Anthracene	0.0148	0.00500	"	0.0333	ND	44.3	30-120		
Benzo (a) anthracene	0.0157	0.00500	"	0.0333	ND	47.1	30-120		
Benzo (a) pyrene	0.0157	0.00500	"	0.0333	ND	47.1	30-120		
Benzo (b) fluoranthene	0.0156	0.00500	"	0.0333	ND	46.7	30-120		
Benzo (k) fluoranthene	0.0165	0.00500	"	0.0333	ND	49.6	30-120		
Chrysene	0.0162	0.00500	"	0.0333	ND	48.7	30-120		
Dibenz (a,h) anthracene	0.0150	0.00500	"	0.0333	ND	45.1	30-120		
Fluoranthene	0.0135	0.00500	"	0.0333	ND	40.6	30-120		
Fluorene	0.0151	0.00500	"	0.0333	ND	45.3	30-120		
Indeno (1,2,3-cd) pyrene	0.0149	0.00500	"	0.0333	ND	44.8	30-120		
Pyrene	0.0168	0.00500	"	0.0333	ND	50.4	35-142		
1-Methylnaphthalene	0.0160	0.00500	"	0.0333	ND	48.1	15-130		
2-Methylnaphthalene	0.0176	0.00500	"	0.0333	ND	52.9	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0154		"	0.0333		46.1	40-150		
Surrogate: Fluoranthene-d10	0.0137		"	0.0333		41.0	40-150		

Matrix Spike Dup (BGJ1100-MSD1)

Source: 2310452-02

Prepared & Analyzed: 10/27/23

Acenaphthene	0.0157	0.00500	mg/kg	0.0333	ND	47.0	31-137	4.29	30
Anthracene	0.0138	0.00500	"	0.0333	ND	41.5	30-120	6.48	30
Benzo (a) anthracene	0.0136	0.00500	"	0.0333	ND	40.7	30-120	14.7	30
Benzo (a) pyrene	0.0149	0.00500	"	0.0333	ND	44.6	30-120	5.32	30
Benzo (b) fluoranthene	0.0145	0.00500	"	0.0333	ND	43.5	30-120	7.20	30
Benzo (k) fluoranthene	0.0152	0.00500	"	0.0333	ND	45.7	30-120	8.09	30
Chrysene	0.0143	0.00500	"	0.0333	ND	43.0	30-120	12.5	30
Dibenz (a,h) anthracene	0.0141	0.00500	"	0.0333	ND	42.3	30-120	6.34	30
Fluoranthene	0.0139	0.00500	"	0.0333	ND	41.8	30-120	2.87	30
Fluorene	0.0156	0.00500	"	0.0333	ND	46.7	30-120	3.10	30
Indeno (1,2,3-cd) pyrene	0.0150	0.00500	"	0.0333	ND	45.0	30-120	0.499	30
Pyrene	0.0152	0.00500	"	0.0333	ND	45.7	35-142	9.79	30
1-Methylnaphthalene	0.0157	0.00500	"	0.0333	ND	47.2	15-130	1.91	50
2-Methylnaphthalene	0.0185	0.00500	"	0.0333	ND	55.6	15-130	4.87	50
Surrogate: 2-Methylnaphthalene-d10	0.0142		"	0.0333		42.6	40-150		
Surrogate: Fluoranthene-d10	0.0145		"	0.0333		43.5	40-150		

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:

11/07/23 09:00

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 BGJ1114 - EPA 3050B

Blank (BGJ1114-BLK1)

Prepared: 10/27/23 Analyzed: 11/01/23

Boron ND 2.00 mg/L

LCS (BGJ1114-BS1)

Prepared: 10/27/23 Analyzed: 11/01/23

Boron 4.72 2.00 mg/L 5.00 94.5 80-120

Duplicate (BGJ1114-DUP1)

Source: 2310421-01

Prepared: 10/27/23 Analyzed: 11/01/23

Boron 0.187 2.00 mg/L 0.217 14.6 20 J

Matrix Spike (BGJ1114-MS1)

Source: 2310421-01

Prepared: 10/27/23 Analyzed: 11/01/23

Boron 4.68 2.00 mg/L 5.00 0.217 89.2 75-125

Matrix Spike Dup (BGJ1114-MSD1)

Source: 2310421-01

Prepared: 10/27/23 Analyzed: 11/01/23

Boron 4.62 2.00 mg/L 5.00 0.217 88.0 75-125 1.34 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:

11/07/23 09:00

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 BGJ1171 - EPA 3050B

Blank (BGJ1171-BLK1)

Prepared: 10/30/23 Analyzed: 10/31/23

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 (BGJ1171-BS1)

Prepared: 10/30/23 Analyzed: 10/31/23

Arsenic	36.5	0.200	mg/kg wet	40.0	91.3	80-120
Barium	39.1	0.400	"	40.0	97.8	80-120
Cadmium	1.93	0.200	"	2.00	96.5	80-120
Copper	43.4	0.400	"	40.0	108	80-120
Lead	19.4	0.200	"	20.0	97.2	80-120
Nickel	42.8	0.400	"	40.0	107	80-120
Silver	1.90	0.0200	"	2.00	95.0	80-120
Zinc	42.4	0.400	"	40.0	106	80-120
Selenium	4.05	0.260	"	4.00	101	80-120

Duplicate (BGJ1171-DUP1)

Source: 2310380-02

Prepared: 10/30/23 Analyzed: 10/31/23

Arsenic	3.61	0.200	mg/kg dry	3.94	8.81	20
Barium	74.0	0.400	"	78.1	5.43	20
Cadmium	0.207	0.200	"	0.204	1.03	20
Copper	6.58	0.400	"	6.37	3.24	20
Lead	33.5	0.200	"	41.0	20.1	20
Nickel	6.27	0.400	"	6.28	0.0842	20
Silver	0.0364	0.0200	"	0.0375	2.86	20
Zinc	31.0	0.400	"	31.3	0.778	20
Selenium	0.536	0.260	"	0.548	2.24	20

QR-04

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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:

11/07/23 09:00

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 BGJ1171 - EPA 3050B

Matrix Spike (BGJ1171-MS1)

Source: 2310380-02

Prepared: 10/30/23 Analyzed: 10/31/23

Arsenic	46.1	0.200	mg/kg dry	52.8	3.94	79.9	75-125			
Barium	123	0.400	"	52.8	78.1	84.5	75-125			
Cadmium	2.56	0.200	"	2.64	0.204	89.3	75-125			
Copper	39.2	0.400	"	52.8	6.37	62.2	75-125			QM-07
Lead	96.5	0.200	"	26.4	41.0	210	75-125			QM-07
Nickel	39.4	0.400	"	52.8	6.28	62.7	75-125			QM-07
Silver	2.37	0.0200	"	2.64	0.0375	88.4	75-125			
Zinc	61.7	0.400	"	52.8	31.3	57.5	75-125			QM-07
Selenium	4.85	0.260	"	5.28	0.548	81.4	75-125			

Matrix Spike Dup (BGJ1171-MSD1)

Source: 2310380-02

Prepared: 10/30/23 Analyzed: 10/31/23

Arsenic	45.8	0.200	mg/kg dry	52.8	3.94	79.2	75-125	0.819	25	
Barium	116	0.400	"	52.8	78.1	72.0	75-125	5.53	25	QM-07
Cadmium	2.46	0.200	"	2.64	0.204	85.4	75-125	4.06	25	
Copper	38.9	0.400	"	52.8	6.37	61.6	75-125	0.836	25	QM-07
Lead	91.7	0.200	"	26.4	41.0	192	75-125	5.05	25	QM-07
Nickel	38.7	0.400	"	52.8	6.28	61.4	75-125	1.71	25	QM-07
Silver	2.27	0.0200	"	2.64	0.0375	84.4	75-125	4.58	25	
Zinc	61.4	0.400	"	52.8	31.3	57.1	75-125	0.366	25	QM-07
Selenium	4.47	0.260	"	5.28	0.548	74.3	75-125	8.00	25	QM-07

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:

11/07/23 09:00

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 BGJ1117 - 3060A Mod

Blank (BGJ1117-BLK1)

Prepared & Analyzed: 10/27/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGJ1117-BS1)

Prepared & Analyzed: 10/27/23

Chromium, Hexavalent 24.4 0.30 mg/kg wet 25.0 97.6 80-120

Duplicate (BGJ1117-DUP1)

Source: 2310450-01

Prepared & Analyzed: 10/27/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGJ1117-MS1)

Source: 2310450-01

Prepared & Analyzed: 10/27/23

Chromium, Hexavalent 31.7 0.30 mg/kg dry 33.4 ND 95.0 75-125

Matrix Spike Dup (BGJ1117-MSD1)

Source: 2310450-01

Prepared & Analyzed: 10/27/23

Chromium, Hexavalent 31.7 0.30 mg/kg dry 33.4 ND 95.0 75-125 0.00 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:

11/07/23 09:00

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 BGJ1097 - General Preparation

Blank (BGJ1097-BLK1)

Prepared: 10/26/23 Analyzed: 10/31/23

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

LCS (BGJ1097-BS1)

Prepared: 10/26/23 Analyzed: 10/31/23

Calcium	4.80	0.0500	mg/L wet	5.00	96.0	70-130
Magnesium	5.40	0.0500	"	5.00	108	70-130
Sodium	5.45	0.0500	"	5.00	109	70-130

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/07/23 09:00

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

Summit Scientific

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

Batch BGJ1136 - General Preparation

Duplicate (BGJ1136-DUP1)

Source: 2310410-01

Prepared & Analyzed: 10/27/23

% Solids	96.4	%	89.0	7.95	20
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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:

11/07/23 09:00

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 BGJ1099 - General Preparation

Blank (BGJ1099-BLK1)

Prepared: 10/27/23 Analyzed: 10/30/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGJ1099-BS1)

Prepared: 10/27/23 Analyzed: 10/30/23

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 100 95-105

Duplicate (BGJ1099-DUP1)

Source: 2310424-01

Prepared: 10/27/23 Analyzed: 10/30/23

Specific Conductance (EC) 0.272 0.0100 mmhos/cm 0.272 0.00 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:

11/07/23 09:00

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 BGJ1101 - General Preparation

LCS (BGJ1101-BS1)

Prepared: 10/27/23 Analyzed: 10/30/23

pH	9.05	pH Units	9.18	98.6	95-105
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Duplicate (BGJ1101-DUP1)

Source: 2310424-01

Prepared: 10/27/23 Analyzed: 10/30/23

pH	8.12	pH Units	8.12	0.00	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:
11/07/23 09:00

Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

November 07, 2023

Andrew Newberry

Eagle Environmental Consulting

8000 W 44th Ave

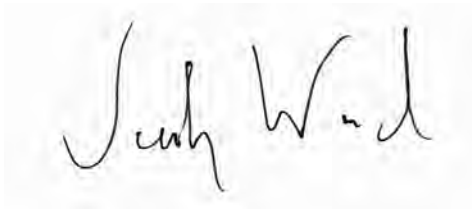
Wheat Ridge, CO 80033

RE: Civitas - Sam 25H-M166

Work Order # 2310518

Enclosed are the results of analyses for samples received by Summit Scientific on 10/26/23 17:34. 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:

11/07/23 09:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HA-SS-15@15'	2310518-01	Soil	10/26/23 16:30	10/26/23 17:34
HA-SS-16@15'	2310518-02	Soil	10/26/23 15:30	10/26/23 17:34

Summit Scientific

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SUMMIT SCIENTIFIC

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

Lab ID	Page / of /
2310518	

Send Data To:		Send Invoice To:	
Client: <i>Eagle Env. Consulting</i>	Project Manager: <i>A. Newberry</i>	Company: <i>Civiks</i>	
Address: <i>800 W. 44th Ave</i>	E-Mail: <i>anewberry@eagle-env.com</i>	Project Name/Location:	
City/State/Zip: <i>Wheat Ridge, CO 80033</i>		AFE#:	
Phone: <i>(303) 433-0479</i>	Project Name: <i>San 25H - M166</i>	PO/Billing Codes:	
Sampler Name: <i>TC/BU</i>	Project Number: <i>-</i>	Contact: <i>Cosin</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	G, BTEX, Nap, THMs -BTEX	DRO/200 -2015	PHS -8270 D SIM	EC - 90304 SAR - 208	PH - 9045 -FOR WATER SOL	Table 95 Metals -60208	Cr VI -71904			
1	HA-SS-15 e 15'	10-26-23	11:30	2			X			X			X	X	X	X	X	X	X		EC/SAR/PH - Sate Peak Pmg	
2	HA-SS-16 e 15'	↓	15:30	2			X			X			X	X	X	X	X	X	X			
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						

Relinquished by: <i>Trevor Copple</i>	Date/Time: <i>10-26-23 17:30</i>	Received by: <i>Vah Wal</i>	Date/Time: <i>10-26-23 17:54</i>	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day <input type="checkbox"/>	Field ORP	
				2 Days <input type="checkbox"/>	Field pH	
				3 Days <input type="checkbox"/>	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard <input type="checkbox"/>	Field Turb.	
Temperature Upon Receipt: <i>3.0</i>	Corrected Temperature	IR gun #: <i>2</i>	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2310518Client: Eagle Environmental Consulting 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) 3.0Thermometer # 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SAMEDAY
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.Josh

Custodian Printed Name

10-26-23 1734

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:

11/07/23 09:08

HA-SS-15@15'

2310518-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/26/23 16:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ1092	10/26/23	10/26/23	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	0.035	0.50		"	"	"	"	"	"	J

Date Sampled: **10/26/23 16:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		75.3 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		86.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.9 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/26/23 16:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	16	50	4.3	mg/kg	1	BGJ1093	10/26/23	10/26/23	EPA 8015M	J
C28-C36 (ORO)	5.7	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/26/23 16:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		51.9 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/07/23 09:08

HA-SS-15@15'

2310518-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/26/23 16:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ1100	10/27/23	10/28/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **10/26/23 16:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		60.3 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		53.8 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/26/23 16:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.0542	2.00	0.00690	mg/L	1	BGJ1114	10/27/23	11/01/23	EPA 6020B	J

Total Metals by EPA 6020B

Date Sampled: **10/26/23 16:30**

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:
11/07/23 09:08

HA-SS-15@15'
2310518-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.45	0.200	0.168	mg/kg dry	1	BGJ1244	10/31/23	11/02/23	EPA 6020B	
Barium	36.0	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0430	0.200	0.00720	"	"	"	"	"	"	J
Copper	1.60	0.400	0.0209	"	"	"	"	"	"	
Lead	4.46	0.200	0.0550	"	"	"	"	"	"	
Nickel	3.69	0.400	0.0610	"	"	"	"	"	"	
Silver	0.00300	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	17.1	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/26/23 16:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGJ1117	10/27/23	10/27/23	EPA 7196A	

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

Date Sampled: 10/26/23 16:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	64.9	0.0500		mg/L dry	1	BGJ1097	10/26/23	10/31/23	EPA 6020B	
Magnesium	45.6	0.0500		"	"	"	"	"	"	
Sodium	72.2	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/26/23 16:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.68	0.00100		units	1	BGJ1245	10/31/23	10/31/23	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:
11/07/23 09:08

HA-SS-15@15'
2310518-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/26/23 16:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	79.9			%	1	BGJ1116	10/27/23	10/27/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/26/23 16:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.841	0.0100	0.00100	mmhos/cm	1	BGJ1099	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/26/23 16:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.03			pH Units	1	BGJ1101	10/27/23	10/30/23	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:

11/07/23 09:08

HA-SS-16@15'

2310518-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/26/23 15:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BGJ1092	10/26/23	10/26/23	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	0.039	0.50		"	"	"	"	"	"	J

Date Sampled: **10/26/23 15:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		75.8 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		83.1 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.8 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/26/23 15:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	14	50	4.3	mg/kg	1	BGJ1093	10/26/23	10/26/23	EPA 8015M	J
C28-C36 (ORO)	5.9	50	4.3	"	"	"	"	"	"	J

Date Sampled: **10/26/23 15:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		56.5 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/07/23 09:08

HA-SS-16@15'

2310518-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/26/23 15:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BGJ1100	10/27/23	10/28/23	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	0.00189	"	"	"	"	"	"	

Date Sampled: **10/26/23 15:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		65.5 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		58.9 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/26/23 15:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.0333	2.00	0.00690	mg/L	1	BGJ1114	10/27/23	11/01/23	EPA 6020B	J

Total Metals by EPA 6020B

Date Sampled: **10/26/23 15:30**

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:

11/07/23 09:08

HA-SS-16@15'

2310518-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.05	0.200	0.168	mg/kg dry	1	BGJ1244	10/31/23	11/02/23	EPA 6020B	
Barium	57.4	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0624	0.200	0.00720	"	"	"	"	"	"	J
Copper	2.12	0.400	0.0209	"	"	"	"	"	"	
Lead	6.12	0.200	0.0550	"	"	"	"	"	"	
Nickel	5.42	0.400	0.0610	"	"	"	"	"	"	
Silver	0.00406	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	22.2	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/26/23 15:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGJ1117	10/27/23	10/27/23	EPA 7196A	

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

Date Sampled: 10/26/23 15:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	55.0	0.0500		mg/L dry	1	BGJ1097	10/26/23	10/31/23	EPA 6020B	
Magnesium	37.5	0.0500		"	"	"	"	"	"	
Sodium	62.2	0.0500		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/26/23 15:30

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.58	0.00100		units	1	BGJ1245	10/31/23	10/31/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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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:
11/07/23 09:08

HA-SS-16@15'
2310518-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/26/23 15:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	78.8			%	1	BGJ1116	10/27/23	10/27/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/26/23 15:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.751	0.0100	0.00100	mmhos/cm	1	BGJ1099	10/27/23	10/30/23	EPA 120.1	

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

Date Sampled: **10/26/23 15:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.14			pH Units	1	BGJ1101	10/27/23	10/30/23	EPA 9045D	

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8000 W 44th Ave
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Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/07/23 09:08

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 BGJ1092 - EPA 5030 Soil MS

Blank (BGJ1092-BLK1)

Prepared: 10/26/23 Analyzed: 10/27/23

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	0.0282		"	0.0400		70.4	50-150			
Surrogate: Toluene-d8	0.0331		"	0.0400		82.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0335		"	0.0400		83.8	50-150			

LCS (BGJ1092-BS1)

Prepared: 10/26/23 Analyzed: 10/27/23

Benzene	0.102	0.0020	mg/kg	0.100		102	70-130			
Toluene	0.0837	0.0050	"	0.100		83.7	70-130			
Ethylbenzene	0.0910	0.0050	"	0.100		91.0	70-130			
m,p-Xylene	0.189	0.010	"	0.200		94.4	70-130			
o-Xylene	0.0919	0.0050	"	0.100		91.9	70-130			
1,2,4-Trimethylbenzene	0.0920	0.0050	"	0.100		92.0	70-130			
1,3,5-Trimethylbenzene	0.0929	0.0050	"	0.100		92.9	70-130			
Naphthalene	0.0902	0.0038	"	0.100		90.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0281		"	0.0400		70.4	50-150			
Surrogate: Toluene-d8	0.0339		"	0.0400		84.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0346		"	0.0400		86.6	50-150			

Matrix Spike (BGJ1092-MS1)

Source: 2310452-02

Prepared: 10/26/23 Analyzed: 10/27/23

Benzene	0.0916	0.0020	mg/kg	0.100	ND	91.6	70-130			
Toluene	0.0718	0.0050	"	0.100	ND	71.8	70-130			
Ethylbenzene	0.0800	0.0050	"	0.100	ND	80.0	70-130			
m,p-Xylene	0.166	0.010	"	0.200	ND	83.0	70-130			
o-Xylene	0.0816	0.0050	"	0.100	ND	81.6	70-130			
1,2,4-Trimethylbenzene	0.0831	0.0050	"	0.100	ND	83.1	70-130			
1,3,5-Trimethylbenzene	0.0812	0.0050	"	0.100	ND	81.2	70-130			
Naphthalene	0.0957	0.0038	"	0.100	ND	95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0307		"	0.0400		76.8	50-150			
Surrogate: Toluene-d8	0.0333		"	0.0400		83.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0350		"	0.0400		87.6	50-150			

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Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/07/23 09:08

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BGJ1092 - EPA 5030 Soil MS

Matrix Spike Dup (BGJ1092-MSD1)		Source: 2310452-02			Prepared: 10/26/23 Analyzed: 10/27/23					
Benzene	0.0863	0.0020	mg/kg	0.100	ND	86.3	70-130	5.94	30	
Toluene	0.0713	0.0050	"	0.100	ND	71.3	70-130	0.629	30	
Ethylbenzene	0.0756	0.0050	"	0.100	ND	75.6	70-130	5.67	30	
m,p-Xylene	0.157	0.010	"	0.200	ND	78.4	70-130	5.65	30	
o-Xylene	0.0775	0.0050	"	0.100	ND	77.5	70-130	5.13	30	
1,2,4-Trimethylbenzene	0.0783	0.0050	"	0.100	ND	78.3	70-130	5.98	30	
1,3,5-Trimethylbenzene	0.0769	0.0050	"	0.100	ND	76.9	70-130	5.35	30	
Naphthalene	0.0955	0.0038	"	0.100	ND	95.5	70-130	0.251	30	
Surrogate: 1,2-Dichloroethane-d4		0.0294	"	0.0400		73.5	50-150			
Surrogate: Toluene-d8		0.0344	"	0.0400		85.9	50-150			
Surrogate: 4-Bromofluorobenzene		0.0350	"	0.0400		87.5	50-150			

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Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/07/23 09:08

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 BGJ1093 - EPA 3550A

Blank (BGJ1093-BLK1)

Prepared & Analyzed: 10/26/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	18.1		"	12.5		145	30-150			

LCS (BGJ1093-BS1)

Prepared: 10/26/23 Analyzed: 10/27/23

C10-C28 (DRO)	530	50	mg/kg	500		106	70-130			
Surrogate: o-Terphenyl	12.7		"	12.5		102	30-150			

Matrix Spike (BGJ1093-MS1)

Source: 2310452-02

Prepared: 10/26/23 Analyzed: 10/27/23

C10-C28 (DRO)	499	50	mg/kg	500	14.7	96.9	70-130			
Surrogate: o-Terphenyl	13.4		"	12.5		108	30-150			

Matrix Spike Dup (BGJ1093-MSD1)

Source: 2310452-02

Prepared: 10/26/23 Analyzed: 10/27/23

C10-C28 (DRO)	508	50	mg/kg	500	14.7	98.7	70-130	1.76	20	
Surrogate: o-Terphenyl	14.8		"	12.5		118	30-150			

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Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/07/23 09:08

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 BGJ1100 - EPA 5030 Soil MS

Blank (BGJ1100-BLK1)

Prepared & Analyzed: 10/27/23

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	0.0301		"	0.0333		90.4		40-150			
Surrogate: Fluoranthene-d10	0.0282		"	0.0333		84.7		40-150			

LCS (BGJ1100-BS1)

Prepared & Analyzed: 10/27/23

Acenaphthene	0.0250	0.00500	mg/kg	0.0333		75.1		31-137			
Anthracene	0.0288	0.00500	"	0.0333		86.3		30-120			
Benzo (a) anthracene	0.0270	0.00500	"	0.0333		81.0		30-120			
Benzo (a) pyrene	0.0235	0.00500	"	0.0333		70.6		30-120			
Benzo (b) fluoranthene	0.0257	0.00500	"	0.0333		77.2		30-120			
Benzo (k) fluoranthene	0.0251	0.00500	"	0.0333		75.2		30-120			
Chrysene	0.0287	0.00500	"	0.0333		86.1		30-120			
Dibenz (a,h) anthracene	0.0233	0.00500	"	0.0333		70.0		30-120			
Fluoranthene	0.0280	0.00500	"	0.0333		84.1		30-120			
Fluorene	0.0245	0.00500	"	0.0333		73.5		30-120			
Indeno (1,2,3-cd) pyrene	0.0251	0.00500	"	0.0333		75.2		30-120			
Pyrene	0.0240	0.00500	"	0.0333		72.0		35-142			
1-Methylnaphthalene	0.0220	0.00500	"	0.0333		65.9		35-142			
2-Methylnaphthalene	0.0236	0.00500	"	0.0333		70.9		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0311		"	0.0333		93.2		40-150			
Surrogate: Fluoranthene-d10	0.0299		"	0.0333		89.7		40-150			

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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:

11/07/23 09:08

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGJ1100 - EPA 5030 Soil MS

Matrix Spike (BGJ1100-MS1)

Source: 2310452-02

Prepared & Analyzed: 10/27/23

Acenaphthene	0.0164	0.00500	mg/kg	0.0333	ND	49.1	31-137		
Anthracene	0.0148	0.00500	"	0.0333	ND	44.3	30-120		
Benzo (a) anthracene	0.0157	0.00500	"	0.0333	ND	47.1	30-120		
Benzo (a) pyrene	0.0157	0.00500	"	0.0333	ND	47.1	30-120		
Benzo (b) fluoranthene	0.0156	0.00500	"	0.0333	ND	46.7	30-120		
Benzo (k) fluoranthene	0.0165	0.00500	"	0.0333	ND	49.6	30-120		
Chrysene	0.0162	0.00500	"	0.0333	ND	48.7	30-120		
Dibenz (a,h) anthracene	0.0150	0.00500	"	0.0333	ND	45.1	30-120		
Fluoranthene	0.0135	0.00500	"	0.0333	ND	40.6	30-120		
Fluorene	0.0151	0.00500	"	0.0333	ND	45.3	30-120		
Indeno (1,2,3-cd) pyrene	0.0149	0.00500	"	0.0333	ND	44.8	30-120		
Pyrene	0.0168	0.00500	"	0.0333	ND	50.4	35-142		
1-Methylnaphthalene	0.0160	0.00500	"	0.0333	ND	48.1	15-130		
2-Methylnaphthalene	0.0176	0.00500	"	0.0333	ND	52.9	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0154		"	0.0333		46.1	40-150		
Surrogate: Fluoranthene-d10	0.0137		"	0.0333		41.0	40-150		

Matrix Spike Dup (BGJ1100-MSD1)

Source: 2310452-02

Prepared & Analyzed: 10/27/23

Acenaphthene	0.0157	0.00500	mg/kg	0.0333	ND	47.0	31-137	4.29	30
Anthracene	0.0138	0.00500	"	0.0333	ND	41.5	30-120	6.48	30
Benzo (a) anthracene	0.0136	0.00500	"	0.0333	ND	40.7	30-120	14.7	30
Benzo (a) pyrene	0.0149	0.00500	"	0.0333	ND	44.6	30-120	5.32	30
Benzo (b) fluoranthene	0.0145	0.00500	"	0.0333	ND	43.5	30-120	7.20	30
Benzo (k) fluoranthene	0.0152	0.00500	"	0.0333	ND	45.7	30-120	8.09	30
Chrysene	0.0143	0.00500	"	0.0333	ND	43.0	30-120	12.5	30
Dibenz (a,h) anthracene	0.0141	0.00500	"	0.0333	ND	42.3	30-120	6.34	30
Fluoranthene	0.0139	0.00500	"	0.0333	ND	41.8	30-120	2.87	30
Fluorene	0.0156	0.00500	"	0.0333	ND	46.7	30-120	3.10	30
Indeno (1,2,3-cd) pyrene	0.0150	0.00500	"	0.0333	ND	45.0	30-120	0.499	30
Pyrene	0.0152	0.00500	"	0.0333	ND	45.7	35-142	9.79	30
1-Methylnaphthalene	0.0157	0.00500	"	0.0333	ND	47.2	15-130	1.91	50
2-Methylnaphthalene	0.0185	0.00500	"	0.0333	ND	55.6	15-130	4.87	50
Surrogate: 2-Methylnaphthalene-d10	0.0142		"	0.0333		42.6	40-150		
Surrogate: Fluoranthene-d10	0.0145		"	0.0333		43.5	40-150		

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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:

11/07/23 09:08

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

Summit Scientific

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

Batch BGJ1114 - EPA 3050B

Blank (BGJ1114-BLK1)

Prepared: 10/27/23 Analyzed: 11/01/23

Boron ND 2.00 mg/L

LCS (BGJ1114-BS1)

Prepared: 10/27/23 Analyzed: 11/01/23

Boron 4.72 2.00 mg/L 5.00 94.5 80-120

Duplicate (BGJ1114-DUP1)

Source: 2310421-01

Prepared: 10/27/23 Analyzed: 11/01/23

Boron 0.187 2.00 mg/L 0.217 14.6 20 J

Matrix Spike (BGJ1114-MS1)

Source: 2310421-01

Prepared: 10/27/23 Analyzed: 11/01/23

Boron 4.68 2.00 mg/L 5.00 0.217 89.2 75-125

Matrix Spike Dup (BGJ1114-MSD1)

Source: 2310421-01

Prepared: 10/27/23 Analyzed: 11/01/23

Boron 4.62 2.00 mg/L 5.00 0.217 88.0 75-125 1.34 25

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

Reported:
11/07/23 09:08

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 BGJ1244 - EPA 3050B

Blank (BGJ1244-BLK1)

Prepared: 10/31/23 Analyzed: 11/02/23

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 (BGJ1244-BS1)

Prepared: 10/31/23 Analyzed: 11/02/23

Arsenic	34.6	0.200	mg/kg wet	40.0	86.4	80-120
Barium	38.1	0.400	"	40.0	95.3	80-120
Cadmium	1.84	0.200	"	2.00	92.1	80-120
Copper	39.3	0.400	"	40.0	98.2	80-120
Lead	18.5	0.200	"	20.0	92.7	80-120
Nickel	39.4	0.400	"	40.0	98.4	80-120
Silver	1.79	0.0200	"	2.00	89.7	80-120
Zinc	39.7	0.400	"	40.0	99.2	80-120
Selenium	4.64	0.260	"	4.00	116	80-120

Duplicate (BGJ1244-DUP1)

Source: 2310449-21

Prepared: 10/31/23 Analyzed: 11/02/23

Arsenic	3.29	0.200	mg/kg dry	2.44	29.5	20	QR-04
Barium	151	0.400	"	106	34.8	20	QR-04
Cadmium	0.241	0.200	"	0.172	33.2	20	QR-01
Copper	7.45	0.400	"	6.41	14.9	20	
Lead	10.0	0.200	"	7.58	28.0	20	QR-04
Nickel	6.33	0.400	"	5.03	23.0	20	QR-04
Silver	0.0418	0.0200	"	0.0324	25.4	20	QR-01
Zinc	25.9	0.400	"	20.7	22.2	20	QR-04
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:

11/07/23 09:08

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 BGJ1244 - EPA 3050B

Matrix Spike (BGJ1244-MS1)		Source: 2310449-21			Prepared: 10/31/23		Analyzed: 11/02/23			
Arsenic	39.5	0.200	mg/kg dry	52.3	2.44	70.9	75-125			QM-07
Barium	156	0.400	"	52.3	106	94.7	75-125			
Cadmium	2.19	0.200	"	2.61	0.172	77.0	75-125			
Copper	33.7	0.400	"	52.3	6.41	52.3	75-125			QM-07
Lead	28.4	0.200	"	26.1	7.58	79.6	75-125			
Nickel	32.6	0.400	"	52.3	5.03	52.7	75-125			QM-07
Silver	1.96	0.0200	"	2.61	0.0324	73.6	75-125			QM-07
Zinc	51.5	0.400	"	52.3	20.7	58.9	75-125			QM-07
Selenium	4.35	0.260	"	5.23	ND	83.2	75-125			

Matrix Spike Dup (BGJ1244-MSD1)		Source: 2310449-21			Prepared: 10/31/23		Analyzed: 11/02/23			
Arsenic	39.5	0.200	mg/kg dry	52.3	2.44	70.8	75-125	0.0781	25	QM-07
Barium	156	0.400	"	52.3	106	95.4	75-125	0.238	25	
Cadmium	2.21	0.200	"	2.61	0.172	77.8	75-125	0.952	25	
Copper	33.0	0.400	"	52.3	6.41	50.8	75-125	2.35	25	QM-07
Lead	28.6	0.200	"	26.1	7.58	80.2	75-125	0.582	25	
Nickel	31.7	0.400	"	52.3	5.03	50.9	75-125	2.89	25	QM-07
Silver	1.95	0.0200	"	2.61	0.0324	73.4	75-125	0.214	25	QM-07
Zinc	50.5	0.400	"	52.3	20.7	56.9	75-125	2.06	25	QM-07
Selenium	4.14	0.260	"	5.23	ND	79.2	75-125	4.96	25	

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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:

11/07/23 09:08

Hexavalent Chromium by EPA Method 7196 - Quality Control

Summit Scientific

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

Batch BGJ1117 - 3060A Mod

Blank (BGJ1117-BLK1)

Prepared & Analyzed: 10/27/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGJ1117-BS1)

Prepared & Analyzed: 10/27/23

Chromium, Hexavalent 24.4 0.30 mg/kg wet 25.0 97.6 80-120

Duplicate (BGJ1117-DUP1)

Source: 2310450-01

Prepared & Analyzed: 10/27/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGJ1117-MS1)

Source: 2310450-01

Prepared & Analyzed: 10/27/23

Chromium, Hexavalent 31.7 0.30 mg/kg dry 33.4 ND 95.0 75-125

Matrix Spike Dup (BGJ1117-MSD1)

Source: 2310450-01

Prepared & Analyzed: 10/27/23

Chromium, Hexavalent 31.7 0.30 mg/kg dry 33.4 ND 95.0 75-125 0.00 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.



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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/07/23 09:08

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 BGJ1097 - General Preparation

Blank (BGJ1097-BLK1)

Prepared: 10/26/23 Analyzed: 10/31/23

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

LCS (BGJ1097-BS1)

Prepared: 10/26/23 Analyzed: 10/31/23

Calcium	4.80	0.0500	mg/L wet	5.00	96.0	70-130
Magnesium	5.40	0.0500	"	5.00	108	70-130
Sodium	5.45	0.0500	"	5.00	109	70-130

Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]

Project Manager: Andrew Newberry

Reported:

11/07/23 09:08

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 BGJ1116 - General Preparation

Duplicate (BGJ1116-DUP1)

Source: 2310499-01

Prepared & Analyzed: 10/27/23

% Solids	94.5	%	94.5	0.0308	20
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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:

11/07/23 09:08

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 BGJ1099 - General Preparation

Blank (BGJ1099-BLK1)

Prepared: 10/27/23 Analyzed: 10/30/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGJ1099-BS1)

Prepared: 10/27/23 Analyzed: 10/30/23

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 100 95-105

Duplicate (BGJ1099-DUP1)

Source: 2310424-01

Prepared: 10/27/23 Analyzed: 10/30/23

Specific Conductance (EC) 0.272 0.0100 mmhos/cm 0.272 0.00 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:

11/07/23 09:08

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 BGJ1101 - General Preparation

LCS (BGJ1101-BS1)

Prepared: 10/27/23 Analyzed: 10/30/23

pH	9.05	pH Units	9.18	98.6	95-105
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Duplicate (BGJ1101-DUP1)

Source: 2310424-01

Prepared: 10/27/23 Analyzed: 10/30/23

pH	8.12	pH Units	8.12	0.00	20
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Summit Scientific

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

Project: Civitas - Sam 25H-M166

Project Number: [none]
Project Manager: Andrew Newberry

Reported:
11/07/23 09:08

Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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