

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 08, 2025

Sam Vogt

Tasman Geosciences

6855 W. 119th Ave.

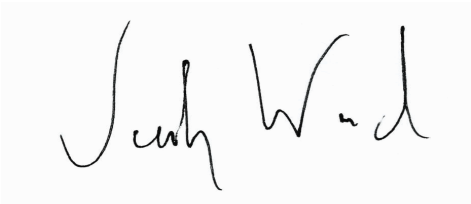
Broomfield, CO 80020

RE: Civitas - Mickey 5-F SEP

Work Order #2410360

Enclosed are the results of analyses for samples received by Summit Scientific on 10/21/24 18:17. 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



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP-B02@5'	2410360-01	Soil	10/21/24 11:00	10/21/24 18:17
SEP-B03@5'	2410360-02	Soil	10/21/24 11:02	10/21/24 18:17
SEP-N02@4'	2410360-03	Soil	10/21/24 11:04	10/21/24 18:17
SEP-N03@4'	2410360-04	Soil	10/21/24 11:06	10/21/24 18:17
SEP-S03@4'	2410360-05	Soil	10/21/24 11:08	10/21/24 18:17
SEP-S04@4'	2410360-06	Soil	10/21/24 11:10	10/21/24 18:17
SEP-E02@4'	2410360-07	Soil	10/21/24 11:12	10/21/24 18:17
SEP-W02@4'	2410360-08	Soil	10/21/24 11:14	10/21/24 18:17

Case Narrative

Sam Vogt requested Metals, pH, EC and Boron be canceled for all samples on 10/29/2024.

Rerun analyses were performed by client request on 10/29/2024.
The rerun results included in this report are denoted with "RE#."

This report has been revised to include both the original and the rerun results on 01/08/2025.

This is a revision of the report originally sent on 10/29/2024 at 10:26 MT.

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.

SS

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

Lab ID	Page 1 of 1
2410360	

Client: Civitas / Tasman		Send Data To:		Send Invoice To:	
Address: 6855 W. 119th Ave.		Project Manager: Sam Vogt / Jacob Evans		Company: Civitas	
City/State/Zip: Broomfield, CO 80020		E-Mail: Svogt@tasman-geo.com		Project Name/Location:	
Phone: PM Phone # - (610)-405-9078		Jevans@civitasresources.com		AFE#: COX0920	
Sampler Name: Sean Clarke, Abby Martin		Project Name: Mickey 5-F SEP		PO/Billing Codes: 8520.162	
		Project Number:		Contact:	

					Preservative				Matrix				Analysis Requested								Special Instructions		
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN	1,2,4 + 1,3,5 TMB's	TPH(GRO,DRO,ORO)	PAH	pH,EC,SAR	Boron	Metals	Full Table 915			
1	SEP-B02@5'	10/21/24	11:00	2			X			X												X	
2	SEP-B03@5'		11:02																				
3	SEP-N02@4'		11:04																				
4	SEP-N03@4'		11:06																				
5	SEP-S03@4'		11:08																				
6	SEP-S04@4'		11:10																				
7	SEP-E02@4'		11:12																				
8	SEP-W02@4'	↓	11:14	↓			↓			↓												↓	
9																							
10																							
11																							
12																							
13																							
14																							
15																							

Relinquished by: <i>Sam Vogt</i>	Date/Time: 10/21/24 17:50	Received by: Tasman Lockbox	Date/Time:	TAT Business Days	Field DO	Notes:
Relinquished by: <i>Tasman Lockbox</i>	Date/Time: 10/21/24 18:17	Received by: <i>[Signature]</i>	Date/Time: 10/21/24 18:17	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: 9.3	Corrected Temperature: 8	IR gun #: 1	HNO3 lot #:	Standard	X	Field Turb.

S₂

Sample Receipt Checklist

S2 Work Order# 2410360Client: Curtis AsmanClient Project ID: Mickey S-F SEPShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #:

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	-------------------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply)

Air

☐

Soil/Solid

☐

Water

☐

Other

☐

Temp (°C)

Thermometer #

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

Custodian Printed Name

Date/Time



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

SEP-B02@5'
2410360-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/21/24 11:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHJ0973	10/23/24	10/24/24	EPA 8260B	
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	"	"	"	"	"	"	

Date Sampled: **10/21/24 11:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0371	92.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0424	106 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0410	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/21/24 11:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0977	10/23/24	10/24/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/21/24 11:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	8.85	70.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

SEP-B02@5'
2410360-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/21/24 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0875	10/22/24	10/23/24	EPA 8270D SIM	
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	"	"	"	"	"	"	

Date Sampled: **10/21/24 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0221	66.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0227	68.2 %	40-150		"	"	"	"	

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

Date Sampled: **10/21/24 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	53.7	0.0500	mg/L dry	1	BHJ0970	10/23/24	10/24/24	EPA 6020B	
Magnesium	36.9	0.0500	"	"	"	"	"	"	
Sodium	116	0.0500	"	"	"	"	"	"	

Calculated Analysis

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Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

SEP-B02@5'
2410360-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/21/24 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.98	0.00100	units	1	BHJ1108	10/25/24	10/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/21/24 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.2		%	1	BHJ0932	10/23/24	10/23/24	Calculation	

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Broomfield CO, 80020

Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

SEP-B03@5'
2410360-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/21/24 11:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0973	10/23/24	10/24/24	EPA 8260B	
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	"	"	"	"	"	"	

Date Sampled: **10/21/24 11:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0366	91.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/21/24 11:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0977	10/23/24	10/24/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/21/24 11:02**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.60	68.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Broomfield CO, 80020

Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

SEP-B03@5'
2410360-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/21/24 11:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0875	10/22/24	10/23/24	EPA 8270D SIM	
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	"	"	"	"	"	"	

Date Sampled: **10/21/24 11:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0196	58.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0212	63.6 %	40-150		"	"	"	"	

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

Date Sampled: **10/21/24 11:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	54.4	0.0500	mg/L dry	1	BHJ0970	10/23/24	10/24/24	EPA 6020B	
Magnesium	35.4	0.0500	"	"	"	"	"	"	
Sodium	188	0.0500	"	"	"	"	"	"	

Calculated Analysis

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Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

SEP-B03@5'
2410360-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/21/24 11:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.88	0.00100	units	1	BHJ1108	10/25/24	10/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/21/24 11:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.7		%	1	BHJ0932	10/23/24	10/23/24	Calculation	

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Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

SEP-N02@4'
2410360-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/21/24 11:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0973	10/23/24	10/24/24	EPA 8260B	
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	"	"	"	"	"	"	

Date Sampled: **10/21/24 11:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0422	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0403	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	99.9 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/21/24 11:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0977	10/23/24	10/24/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/21/24 11:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.0	88.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

SEP-N02@4'
2410360-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/21/24 11:04**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0875	10/22/24	10/23/24	EPA 8270D SIM	
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	"	"	"	"	"	"	

Date Sampled: **10/21/24 11:04**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10	0.0191	57.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0205	61.5 %	40-150		"	"	"	"	

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

Date Sampled: **10/21/24 11:04**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	12.5	0.0500	mg/L dry	1	BHJ0970	10/23/24	10/24/24	EPA 6020B	
Magnesium	8.17	0.0500	"	"	"	"	"	"	
Sodium	21.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

SEP-N02@4'
2410360-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/21/24 11:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.16	0.00100	units	1	BHJ1108	10/25/24	10/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/21/24 11:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.5		%	1	BHJ0932	10/23/24	10/23/24	Calculation	

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

SEP-N03@4'
2410360-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/21/24 11:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0973	10/23/24	10/24/24	EPA 8260B	
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	"	"	"	"	"	"	

Date Sampled: **10/21/24 11:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0395	98.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0393	98.3 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/21/24 11:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0977	10/23/24	10/24/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/21/24 11:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.21	65.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

SEP-N03@4'
2410360-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/21/24 11:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0875	10/22/24	10/23/24	EPA 8270D SIM	
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	"	"	"	"	"	"	

Date Sampled: **10/21/24 11:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0195	58.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0211	63.2 %	40-150		"	"	"	"	

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

Date Sampled: **10/21/24 11:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	70.7	0.0500	mg/L dry	1	BHJ0970	10/23/24	10/24/24	EPA 6020B	
Magnesium	64.0	0.0500	"	"	"	"	"	"	
Sodium	279	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Tasman Geosciences
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Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

SEP-N03@4'
2410360-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/21/24 11:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.79	0.00100	units	1	BHJ1108	10/25/24	10/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/21/24 11:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.2		%	1	BHJ0932	10/23/24	10/23/24	Calculation	

Summit Scientific

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6855 W. 119th Ave.
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Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

SEP-S03@4'
2410360-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/21/24 11:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0973	10/23/24	10/24/24	EPA 8260B	
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	"	"	"	"	"	"	

Date Sampled: **10/21/24 11:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0369	92.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0428	107 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0405	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/21/24 11:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0977	10/23/24	10/24/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/21/24 11:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.14	65.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

SEP-S03@4'
2410360-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/21/24 11:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0875	10/22/24	10/24/24	EPA 8270D SIM	
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	"	"	"	"	"	"	

Date Sampled: **10/21/24 11:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0194	58.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0211	63.3 %	40-150		"	"	"	"	

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

Date Sampled: **10/21/24 11:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	68.4	0.0500	mg/L dry	1	BHJ0970	10/23/24	10/24/24	EPA 6020B	
Magnesium	47.5	0.0500	"	"	"	"	"	"	
Sodium	139	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Tasman Geosciences
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Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

SEP-S03@4'
2410360-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/21/24 11:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.16	0.00100	units	1	BHJ1108	10/25/24	10/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/21/24 11:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.1		%	1	BHJ0932	10/23/24	10/23/24	Calculation	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

SEP-S04@4'
2410360-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/21/24 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0973	10/23/24	10/24/24	EPA 8260B	
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	"	"	"	"	"	"	

Date Sampled: **10/21/24 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0393	98.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0408	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/21/24 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0977	10/23/24	10/24/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/21/24 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.32	66.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

SEP-S04@4'
2410360-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/21/24 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0875	10/22/24	10/24/24	EPA 8270D SIM	
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	"	"	"	"	"	"	

Date Sampled: **10/21/24 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0158	47.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0172	51.7 %	40-150		"	"	"	"	

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

Date Sampled: **10/21/24 11:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	121	0.0500	mg/L dry	1	BHJ0970	10/23/24	10/24/24	EPA 6020B	
Magnesium	74.6	0.0500	"	"	"	"	"	"	
Sodium	215	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

SEP-S04@4'
2410360-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/21/24 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.79	0.00100	units	1	BHJ1108	10/25/24	10/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/21/24 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.7		%	1	BHJ0932	10/23/24	10/23/24	Calculation	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

SEP-E02@4'
2410360-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/21/24 11:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0973	10/23/24	10/24/24	EPA 8260B	
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	"	"	"	"	"	"	

Date Sampled: **10/21/24 11:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0408	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0411	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0410	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/21/24 11:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0977	10/23/24	10/24/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/21/24 11:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.02	72.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

SEP-E02@4'
2410360-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/21/24 11:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0875	10/22/24	10/24/24	EPA 8270D SIM	
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	"	"	"	"	"	"	

Date Sampled: **10/21/24 11:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0161	48.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0183	55.0 %	40-150		"	"	"	"	

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

Date Sampled: **10/21/24 11:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	87.0	0.0500	mg/L dry	1	BHJ0970	10/23/24	10/24/24	EPA 6020B	
Magnesium	110	0.0500	"	"	"	"	"	"	
Sodium	359	0.0500	"	"	"	"	"	"	

Calculated Analysis

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Broomfield CO, 80020

Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

SEP-E02@4'
2410360-07 (Soil)

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Calculated Analysis

Date Sampled: **10/21/24 11:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.03	0.00100	units	1	BHJ1108	10/25/24	10/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/21/24 11:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.2		%	1	BHJ0932	10/23/24	10/23/24	Calculation	

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Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

SEP-E02@4'
2410360-07RE1 (Soil)

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

Date Sampled: **10/21/24 11:12**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	40.0	0.0500	mg/L dry	1	BHK0229	10/23/24	11/06/24	EPA 6020B	
Magnesium	41.6	0.0500	"	"	"	"	"	"	
Sodium	173	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/21/24 11:12**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	4.57	0.00100	units	1	BHK0355	10/25/24	11/07/24	Calculation	

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Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

SEP-W02@4'
2410360-08 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/21/24 11:14**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0973	10/23/24	10/24/24	EPA 8260B	
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	"	"	"	"	"	"	

Date Sampled: **10/21/24 11:14**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0416	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0409	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/21/24 11:14**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0977	10/23/24	10/24/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/21/24 11:14**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.08	72.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

SEP-W02@4'
2410360-08 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **10/21/24 11:14**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0875	10/22/24	10/24/24	EPA 8270D SIM	
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	"	"	"	"	"	"	

Date Sampled: **10/21/24 11:14**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0192	57.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0214	64.1 %	40-150		"	"	"	"	

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

Date Sampled: **10/21/24 11:14**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	59.6	0.0500	mg/L dry	1	BHJ0970	10/23/24	10/24/24	EPA 6020B	
Magnesium	27.0	0.0500	"	"	"	"	"	"	
Sodium	10.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

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Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

SEP-W02@4'
2410360-08 (Soil)

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Calculated Analysis

Date Sampled: **10/21/24 11:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.291	0.00100	units	1	BHJ1108	10/25/24	10/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/21/24 11:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.0		%	1	BHJ0932	10/23/24	10/23/24	Calculation	

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Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

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 BHJ0973 - EPA 5030 Soil MS

Blank (BHJ0973-BLK1)

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

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	0.0387		"	0.0400		96.8	50-150			
Surrogate: Toluene-d8	0.0406		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		98.0	50-150			

LCS (BHJ0973-BS1)

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

Benzene	0.104	0.0020	mg/kg	0.100		104	70-130			
Toluene	0.101	0.0050	"	0.100		101	70-130			
Ethylbenzene	0.0972	0.0050	"	0.100		97.2	70-130			
m,p-Xylene	0.196	0.010	"	0.200		97.8	70-130			
o-Xylene	0.0963	0.0050	"	0.100		96.3	70-130			
1,2,4-Trimethylbenzene	0.0915	0.0050	"	0.100		91.5	70-130			
1,3,5-Trimethylbenzene	0.0916	0.0050	"	0.100		91.6	70-130			
Naphthalene	0.0949	0.0038	"	0.100		94.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0362		"	0.0400		90.4	50-150			
Surrogate: Toluene-d8	0.0399		"	0.0400		99.7	50-150			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.0	50-150			

Matrix Spike (BHJ0973-MS1)

Source: 2410360-01

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

Benzene	0.0925	0.0020	mg/kg	0.100	ND	92.5	70-130			
Toluene	0.0904	0.0050	"	0.100	ND	90.4	70-130			
Ethylbenzene	0.0874	0.0050	"	0.100	ND	87.4	70-130			
m,p-Xylene	0.172	0.010	"	0.200	ND	86.2	70-130			
o-Xylene	0.0896	0.0050	"	0.100	ND	89.6	70-130			
1,2,4-Trimethylbenzene	0.0814	0.0050	"	0.100	ND	81.4	70-130			
1,3,5-Trimethylbenzene	0.0856	0.0050	"	0.100	ND	85.6	70-130			
Naphthalene	0.0799	0.0038	"	0.100	ND	79.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0386		"	0.0400		96.6	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		100	50-150			

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Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

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 BHJ0973 - EPA 5030 Soil MS

Matrix Spike Dup (BHJ0973-MSD1)	Source: 2410360-01			Prepared: 10/23/24 Analyzed: 10/24/24						
Benzene	0.0928	0.0020	mg/kg	0.100	ND	92.8	70-130	0.324	30	
Toluene	0.0910	0.0050	"	0.100	ND	91.0	70-130	0.728	30	
Ethylbenzene	0.0891	0.0050	"	0.100	ND	89.1	70-130	1.97	30	
m,p-Xylene	0.172	0.010	"	0.200	ND	86.2	70-130	0.0174	30	
o-Xylene	0.0884	0.0050	"	0.100	ND	88.4	70-130	1.28	30	
1,2,4-Trimethylbenzene	0.0793	0.0050	"	0.100	ND	79.3	70-130	2.65	30	
1,3,5-Trimethylbenzene	0.0853	0.0050	"	0.100	ND	85.3	70-130	0.316	30	
Naphthalene	0.0787	0.0038	"	0.100	ND	78.7	70-130	1.48	30	
Surrogate: 1,2-Dichloroethane-d4	0.0400		"	0.0400		100	50-150			
Surrogate: Toluene-d8	0.0402		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0383		"	0.0400		95.7	50-150			

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Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

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 BHJ0977 - EPA 3550A

Blank (BHJ0977-BLK1)

Prepared & Analyzed: 10/23/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	11.0		"	12.5		88.0	30-150			

LCS (BHJ0977-BS1)

Prepared & Analyzed: 10/23/24

C10-C28 (DRO)	440	50	mg/kg	500		88.0	70-130			
Surrogate: o-Terphenyl	10.8		"	12.5		86.7	30-150			

Matrix Spike (BHJ0977-MS1)

Source: 2410360-01

Prepared & Analyzed: 10/23/24

C10-C28 (DRO)	451	50	mg/kg	500	29.1	84.3	70-130			
Surrogate: o-Terphenyl	9.95		"	12.5		79.6	30-150			

Matrix Spike Dup (BHJ0977-MSD1)

Source: 2410360-01

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

C10-C28 (DRO)	406	50	mg/kg	500	29.1	75.3	70-130	10.5	20	
Surrogate: o-Terphenyl	11.4		"	12.5		91.0	30-150			

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Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

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 BHJ0875 - EPA 5030 Soil MS

Blank (BHJ0875-BLK1)

Prepared: 10/22/24 Analyzed: 10/23/24

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	0.0195		"	0.0333		58.4	40-150			
Surrogate: Fluoranthene-d10	0.0245		"	0.0333		73.6	40-150			

LCS (BHJ0875-BS1)

Prepared: 10/22/24 Analyzed: 10/23/24

Acenaphthene	0.0175	0.00500	mg/kg	0.0333		52.4	31-137			
Anthracene	0.0176	0.00500	"	0.0333		52.7	30-120			
Benzo (a) anthracene	0.0186	0.00500	"	0.0333		55.9	30-120			
Benzo (a) pyrene	0.0172	0.00500	"	0.0333		51.6	30-120			
Benzo (b) fluoranthene	0.0170	0.00500	"	0.0333		51.1	30-120			
Benzo (k) fluoranthene	0.0166	0.00500	"	0.0333		49.9	30-120			
Chrysene	0.0175	0.00500	"	0.0333		52.5	30-120			
Dibenz (a,h) anthracene	0.0184	0.00500	"	0.0333		55.1	30-120			
Fluoranthene	0.0181	0.00500	"	0.0333		54.2	30-120			
Fluorene	0.0178	0.00500	"	0.0333		53.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0207	0.00500	"	0.0333		62.0	30-120			
Pyrene	0.0186	0.00500	"	0.0333		55.9	35-142			
1-Methylnaphthalene	0.0171	0.00500	"	0.0333		51.3	35-142			
2-Methylnaphthalene	0.0176	0.00500	"	0.0333		52.7	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0178		"	0.0333		53.3	40-150			
Surrogate: Fluoranthene-d10	0.0185		"	0.0333		55.6	40-150			

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Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

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 BHJ0875 - EPA 5030 Soil MS

Matrix Spike (BHJ0875-MS1)

Source: 2410353-38

Prepared: 10/22/24 Analyzed: 10/23/24

Acenaphthene	0.0207	0.00500	mg/kg	0.0333	ND	62.2	31-137		
Anthracene	0.0204	0.00500	"	0.0333	ND	61.2	30-120		
Benzo (a) anthracene	0.0220	0.00500	"	0.0333	ND	66.0	30-120		
Benzo (a) pyrene	0.0203	0.00500	"	0.0333	ND	61.0	30-120		
Benzo (b) fluoranthene	0.0205	0.00500	"	0.0333	ND	61.5	30-120		
Benzo (k) fluoranthene	0.0194	0.00500	"	0.0333	ND	58.1	30-120		
Chrysene	0.0205	0.00500	"	0.0333	ND	61.4	30-120		
Dibenz (a,h) anthracene	0.0222	0.00500	"	0.0333	ND	66.6	30-120		
Fluoranthene	0.0220	0.00500	"	0.0333	ND	66.1	30-120		
Fluorene	0.0210	0.00500	"	0.0333	ND	63.1	30-120		
Indeno (1,2,3-cd) pyrene	0.0248	0.00500	"	0.0333	ND	74.5	30-120		
Pyrene	0.0221	0.00500	"	0.0333	ND	66.3	35-142		
1-Methylnaphthalene	0.0223	0.00500	"	0.0333	ND	67.0	15-130		
2-Methylnaphthalene	0.0225	0.00500	"	0.0333	ND	67.4	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0227		"	0.0333		68.0	40-150		
Surrogate: Fluoranthene-d10	0.0223		"	0.0333		67.0	40-150		

Matrix Spike Dup (BHJ0875-MSD1)

Source: 2410353-38

Prepared: 10/22/24 Analyzed: 10/23/24

Acenaphthene	0.0168	0.00500	mg/kg	0.0333	ND	50.5	31-137	20.9	30
Anthracene	0.0172	0.00500	"	0.0333	ND	51.5	30-120	17.2	30
Benzo (a) anthracene	0.0188	0.00500	"	0.0333	ND	56.3	30-120	15.7	30
Benzo (a) pyrene	0.0173	0.00500	"	0.0333	ND	52.0	30-120	15.8	30
Benzo (b) fluoranthene	0.0174	0.00500	"	0.0333	ND	52.2	30-120	16.3	30
Benzo (k) fluoranthene	0.0161	0.00500	"	0.0333	ND	48.3	30-120	18.3	30
Chrysene	0.0174	0.00500	"	0.0333	ND	52.1	30-120	16.4	30
Dibenz (a,h) anthracene	0.0194	0.00500	"	0.0333	ND	58.3	30-120	13.3	30
Fluoranthene	0.0183	0.00500	"	0.0333	ND	54.8	30-120	18.7	30
Fluorene	0.0177	0.00500	"	0.0333	ND	53.1	30-120	17.2	30
Indeno (1,2,3-cd) pyrene	0.0216	0.00500	"	0.0333	ND	64.9	30-120	13.8	30
Pyrene	0.0188	0.00500	"	0.0333	ND	56.4	35-142	16.2	30
1-Methylnaphthalene	0.0177	0.00500	"	0.0333	ND	53.0	15-130	23.3	50
2-Methylnaphthalene	0.0177	0.00500	"	0.0333	ND	53.1	15-130	23.8	50
Surrogate: 2-Methylnaphthalene-d10	0.0182		"	0.0333		54.7	40-150		
Surrogate: Fluoranthene-d10	0.0183		"	0.0333		55.0	40-150		

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

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

Summit Scientific

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

Batch BHJ0970 - General Preparation

Blank (BHJ0970-BLK1)

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

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

LCS (BHJ0970-BS1)

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

Calcium	5.32	0.0500	mg/L wet	5.00	106	70-130
Magnesium	4.96	0.0500	"	5.00	99.1	70-130
Sodium	5.00	0.0500	"	5.00	100	70-130

Batch BHK0229 - General Preparation

Blank (BHK0229-BLK1)

Prepared: 11/05/24 Analyzed: 11/06/24

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

LCS (BHK0229-BS1)

Prepared: 11/05/24 Analyzed: 11/06/24

Calcium	5.02	0.0500	mg/L wet	5.00	100	70-130
Magnesium	5.19	0.0500	"	5.00	104	70-130
Sodium	5.15	0.0500	"	5.00	103	70-130

Summit Scientific

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Broomfield CO, 80020

Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

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 BHJ0932 - General Preparation

Duplicate (BHJ0932-DUP1)		Source: 2410214-03			Prepared & Analyzed: 10/23/24					
% Solids	99.6		%		98.5		1.11		20	

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Mickey 5-F SEP

Project Number: [none]
Project Manager: Sam Vogt

Reported:
01/08/25 10:14

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference