

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 23, 2026

Will Blust

Quandary Consultants

4480 Garfield St

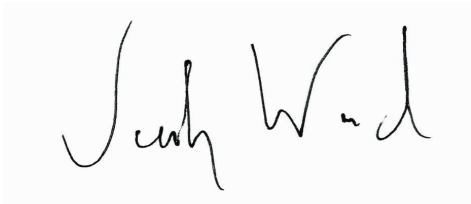
Denver, CO 80237

RE: Bison IV - Fabrizio 33-14

Work Order #2601023

Enclosed are the results of analyses for samples received by Summit Scientific on 01/21/26 15:49. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and "W".

Jacob Wood For Gavin Stonehouse

Lab Manager



Quandary Consultants
4480 Garfield St
Denver CO, 80237

Project: Bison IV - Fabrizius 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
01/23/26 11:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W03@5'	2601023-01	Soil	01/21/26 11:30	01/21/26 15:49
E03@5'	2601023-02	Soil	01/21/26 12:10	01/21/26 15:49

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Sample Receipt Checklist

Client: Quandary Consultants Client Project ID: Bison IV - Febrizius 33-14Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____Matrix (Circle all that apply) Air Soil Water Other Temp (°C) 4.2 Corrected (°C) 4.3Thermometer ID: 2 Bottle ware (Circle all that apply) Glass Jar VOA Amber Poly Other

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ON ICE
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD, Total Residual Chlorine (TRC)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If 8260 analyses are requested, were samples collected within 48hrs? If not, is at least one sample jar frozen? ⁽¹⁾	<input checked="" type="checkbox"/>	<input 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"/>	
Were samples provided in appropriate bottleware?	<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 any samples/bottles preserved (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"/>	
Will any samples be performed outside of Summit Scientific? Note analysis in comments column	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<u>Additional Comments (if any):</u>				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Josh Sanford
Custodian Printed Name

1/21/26 15:49
Date/Time



Quandary Consultants
4480 Garfield St
Denver CO, 80237

Project: Bison IV - Fabrizzius 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
01/23/26 11:12

W03@5'
2601023-01 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/21/26 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0025	mg/kg dry	1	BJA0193	01/21/26	01/21/26	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.015	"	"	"	"	"	"	
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: **01/21/26 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0562	109 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0554	107 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0536	104 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/21/26 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg dry	1	BJA0194	01/21/26	01/21/26	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/21/26 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	33.0	99.6 %	50-140	"	"	"	"	"	

PAH by EPA Method 8270E SIM

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Project Number: [none]
Project Manager: Will Blust

Reported:
01/23/26 11:12

W03@5'
2601023-01 (Soil)

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PAH by EPA Method 8270E SIM

Date Sampled: **01/21/26 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Acenaphthene	ND	0.00500	mg/kg dry	1	BJA0195	01/22/26	01/22/26	EPA 8270E 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	0.0127	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0109	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0113	0.00500	"	"	"	"	"	"	

Date Sampled: **01/21/26 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10	0.0238	54.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0275	63.2 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/21/26 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	1.00	mg/L dry	1	BJA0190	01/21/26	01/22/26	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/21/26 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

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Project Number: [none]
Project Manager: Will Blust

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W03@5'
2601023-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.72	0.200	mg/kg dry	1	BJA0191	01/21/26	01/22/26	EPA 6020B	
Barium	298	0.400	"	"	"	"	"	"	"
Cadmium	0.509	0.200	"	"	"	"	"	"	"
Copper	6.54	0.400	"	"	"	"	"	"	"
Lead	11.9	0.200	"	"	"	"	"	"	"
Nickel	6.07	0.400	"	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"	"
Zinc	23.3	0.400	"	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"	"

Hexavalent Chromium by HACH M8023

Date Sampled: **01/21/26 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BJA0192	01/21/26	01/22/26	HACH M10218	

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

Date Sampled: **01/21/26 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	103	0.0500	mg/L dry	1	BJA0187	01/21/26	01/22/26	EPA 6020B	
Magnesium	16.5	0.0500	"	"	"	"	"	"	"
Sodium	141	0.0500	"	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **01/21/26 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.40	0.00100	units	1	BJA0197	01/22/26	01/22/26	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/21/26 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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W03@5'
2601023-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	76.6	%	1	BJA0186	01/21/26	01/22/26	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/21/26 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Specific Conductance (EC)	0.727	0.0100	mmhos/cm	1	BJA0188	01/21/26	01/22/26	EPA 120.1	
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Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **01/21/26 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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pH	8.24		pH Units	1	BJA0189	01/21/26	01/22/26	EPA 9045D	
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Denver CO, 80237

Project: Bison IV - Fabrizzius 33-14

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01/23/26 11:12

E03@5'
2601023-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/21/26 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0025	mg/kg dry	1	BJA0193	01/21/26	01/21/26	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.015	"	"	"	"	"	"	
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: **01/21/26 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0563	106 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0540	102 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0520	98.1 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/21/26 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg dry	1	BJA0194	01/21/26	01/21/26	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/21/26 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	31.7	98.3 %	50-140	"	"	"	"	"	

PAH by EPA Method 8270E SIM

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E03@5'
2601023-02 (Soil)

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PAH by EPA Method 8270E SIM

Date Sampled: **01/21/26 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Acenaphthene	ND	0.00500	mg/kg dry	1	BJA0195	01/22/26	01/22/26	EPA 8270E 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: **01/21/26 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10	0.0201	45.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0227	51.7 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/21/26 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	1.00	mg/L dry	1	BJA0190	01/21/26	01/22/26	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/21/26 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

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E03@5'
2601023-02 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.99	0.200	mg/kg dry	1	BJA0191	01/21/26	01/22/26	EPA 6020B	
Barium	339	0.400	"	"	"	"	"	"	"
Cadmium	0.491	0.200	"	"	"	"	"	"	"
Copper	7.57	0.400	"	"	"	"	"	"	"
Lead	11.6	0.200	"	"	"	"	"	"	"
Nickel	7.24	0.400	"	"	"	"	"	"	"
Silver	0.0202	0.0200	"	"	"	"	"	"	"
Zinc	28.1	0.400	"	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"	"

Hexavalent Chromium by HACH M8023

Date Sampled: **01/21/26 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BJA0192	01/21/26	01/22/26	HACH M10218	

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

Date Sampled: **01/21/26 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	149	0.0500	mg/L dry	1	BJA0187	01/21/26	01/22/26	EPA 6020B	
Magnesium	13.3	0.0500	"	"	"	"	"	"	"
Sodium	141	0.0500	"	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **01/21/26 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.97	0.00100	units	1	BJA0197	01/22/26	01/22/26	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/21/26 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: [none]
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E03@5'
2601023-02 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	76.1	%	1	BJA0186	01/21/26	01/22/26	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/21/26 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.624	0.0100	mmhos/cm	1	BJA0188	01/21/26	01/22/26	EPA 120.1	

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

Date Sampled: **01/21/26 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.38		pH Units	1	BJA0189	01/21/26	01/22/26	EPA 9045D	

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Project Number: [none]
Project Manager: Will Blust

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch BJA0193 - EPA 5030 Soil MS

Blank (BJA0193-BLK1)

Prepared & Analyzed: 01/21/26

Benzene	ND	0.0025	mg/kg wet							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.015	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0430		"	0.0400		107	50-150			
<i>Surrogate: Toluene-d8</i>	0.0411		"	0.0400		103	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0398		"	0.0400		99.6	50-150			

LCS (BJA0193-BS1)

Prepared & Analyzed: 01/21/26

Benzene	0.0894	0.0025	mg/kg wet	0.100		89.4	70-130			
Toluene	0.0900	0.0050	"	0.100		90.0	70-130			
Ethylbenzene	0.0907	0.0050	"	0.100		90.7	70-130			
m,p-Xylene	0.179	0.010	"	0.200		89.7	70-130			
o-Xylene	0.0906	0.0050	"	0.100		90.6	70-130			
1,2,4-Trimethylbenzene	0.0933	0.0050	"	0.100		93.3	70-130			
1,3,5-Trimethylbenzene	0.0918	0.0050	"	0.100		91.8	70-130			
Naphthalene	0.0998	0.0038	"	0.100		99.8	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0435		"	0.0400		109	50-150			
<i>Surrogate: Toluene-d8</i>	0.0409		"	0.0400		102	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0406		"	0.0400		102	50-150			

Matrix Spike (BJA0193-MS1)

Source: 2601022-01

Prepared & Analyzed: 01/21/26

Benzene	0.0912	0.0025	mg/kg dry	0.106	ND	86.3	70-130			
Toluene	0.0892	0.0050	"	0.106	0.00268	81.9	70-130			
Ethylbenzene	0.0808	0.0050	"	0.106	ND	76.4	70-130			
m,p-Xylene	0.160	0.010	"	0.211	0.00306	74.1	70-130			
o-Xylene	0.0813	0.0050	"	0.106	ND	76.9	70-130			
1,2,4-Trimethylbenzene	0.0701	0.0050	"	0.106	ND	66.4	70-130			QM-05
1,3,5-Trimethylbenzene	0.0685	0.0050	"	0.106	ND	64.8	70-130			QM-05
Naphthalene	0.0751	0.0038	"	0.106	ND	71.1	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0452		"	0.0423		107	50-150			
<i>Surrogate: Toluene-d8</i>	0.0429		"	0.0423		101	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0421		"	0.0423		99.6	50-150			

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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.



Quandary Consultants
4480 Garfield St
Denver CO, 80237

Project: Bison IV - Fabrizzius 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
01/23/26 11:12

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Notes
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Batch BJA0193 - EPA 5030 Soil MS

Matrix Spike Dup (BJA0193-MSD1)

Source: 2601022-01

Prepared & Analyzed: 01/21/26

Benzene	0.0913	0.0025	mg/kg dry	0.105	ND	86.5	70-130	0.00686	30	
Toluene	0.0874	0.0050	"	0.105	0.00268	80.3	70-130	2.07	30	
Ethylbenzene	0.0791	0.0050	"	0.105	ND	75.0	70-130	2.10	30	
m,p-Xylene	0.155	0.010	"	0.211	0.00306	72.1	70-130	2.86	30	
o-Xylene	0.0777	0.0050	"	0.105	ND	73.7	70-130	4.46	30	
1,2,4-Trimethylbenzene	0.0647	0.0050	"	0.105	ND	61.4	70-130	8.00	30	QM-05
1,3,5-Trimethylbenzene	0.0618	0.0050	"	0.105	ND	58.6	70-130	10.3	30	QM-05
Naphthalene	0.0650	0.0038	"	0.105	ND	61.6	70-130	14.4	30	QM-05
Surrogate: 1,2-Dichloroethane-d4	0.0452		"	0.0422		107	50-150			
Surrogate: Toluene-d8	0.0435		"	0.0422		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0418		"	0.0422		99.1	50-150			

Summit Scientific

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Quandary Consultants
4480 Garfield St
Denver CO, 80237

Project: Bison IV - Fabrizzius 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
01/23/26 11:12

Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch BJA0194 - EPA 3550A

Blank (BJA0194-BLK1)

Prepared & Analyzed: 01/21/26

C10-C28 (DRO)	ND	50	mg/kg wet							
C28-C36 (ORO)	ND	50	"							
Surrogate: <i>o</i> -Terphenyl	29.8		"	24.9		119	50-140			

LCS (BJA0194-BS1)

Prepared & Analyzed: 01/21/26

C10-C28 (DRO)	502	50	mg/kg wet	499		101	50-140			
C28-C36 (ORO)	502	50	"	499		101	0-200			
Surrogate: <i>o</i> -Terphenyl	27.0		"	25.0		108	50-140			

Matrix Spike (BJA0194-MS1)

Source: 2601023-01

Prepared & Analyzed: 01/21/26

C10-C28 (DRO)	645	50	mg/kg dry	650	ND	99.2	50-140			
C28-C36 (ORO)	650	50	"	650	ND	99.9	0-200			
Surrogate: <i>o</i> -Terphenyl	32.6		"	32.5		100	50-140			

Matrix Spike Dup (BJA0194-MSD1)

Source: 2601023-01

Prepared & Analyzed: 01/21/26

C10-C28 (DRO)	652	50	mg/kg dry	659	ND	98.9	50-140	1.19	20	
C28-C36 (ORO)	673	50	"	659	ND	102	0-200	3.56	200	
Surrogate: <i>o</i> -Terphenyl	33.4		"	33.0		101	50-140			

Summit Scientific

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Quandary Consultants
4480 Garfield St
Denver CO, 80237

Project: Bison IV - Fabrizzius 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
01/23/26 11:12

PAH by EPA Method 8270E SIM - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch BJA0195 - EPA 3550A

Blank (BJA0195-BLK1)

Prepared & Analyzed: 01/22/26

Acenaphthene	ND	0.00500	mg/kg wet							
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	0.0211		"	0.0333		63.4	40-140			
Surrogate: Fluoranthene-d10	0.0230		"	0.0333		69.1	40-140			

LCS (BJA0195-BS1)

Prepared & Analyzed: 01/22/26

Acenaphthene	0.0187	0.00500	mg/kg wet	0.0333		56.1	40-140			
Anthracene	0.0209	0.00500	"	0.0333		62.6	40-140			
Benzo (a) anthracene	0.0207	0.00500	"	0.0333		62.2	40-140			
Benzo (a) pyrene	0.0209	0.00500	"	0.0333		62.6	40-140			
Benzo (b) fluoranthene	0.0217	0.00500	"	0.0333		65.2	40-140			
Benzo (k) fluoranthene	0.0212	0.00500	"	0.0333		63.7	40-140			
Chrysene	0.0202	0.00500	"	0.0333		60.6	40-140			
Dibenz (a,h) anthracene	0.0206	0.00500	"	0.0333		61.7	40-140			
Fluoranthene	0.0223	0.00500	"	0.0333		67.0	40-140			
Fluorene	0.0184	0.00500	"	0.0333		55.2	40-140			
Indeno (1,2,3-cd) pyrene	0.0211	0.00500	"	0.0333		63.4	40-140			
Pyrene	0.0217	0.00500	"	0.0333		65.0	40-140			
1-Methylnaphthalene	0.0173	0.00500	"	0.0333		52.0	40-140			
2-Methylnaphthalene	0.0180	0.00500	"	0.0333		54.1	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0205		"	0.0333		61.4	40-140			
Surrogate: Fluoranthene-d10	0.0250		"	0.0333		75.1	40-140			

Summit Scientific

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Quandary Consultants
4480 Garfield St
Denver CO, 80237

Project: Bison IV - Fabrizzius 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
01/23/26 11:12

PAH by EPA Method 8270E SIM - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Notes
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Batch BJA0195 - EPA 3550A

Matrix Spike (BJA0195-MSI)

Source: 2601023-02

Prepared & Analyzed: 01/22/26

Acenaphthene	0.0219	0.00500	mg/kg dry	0.0438	ND	49.9	40-140			
Anthracene	0.0231	0.00500	"	0.0438	0.00259	46.9	40-140			
Benzo (a) anthracene	0.0245	0.00500	"	0.0438	ND	56.0	40-140			
Benzo (a) pyrene	0.0255	0.00500	"	0.0438	0.000657	56.7	40-140			
Benzo (b) fluoranthene	0.0246	0.00500	"	0.0438	ND	56.1	40-140			
Benzo (k) fluoranthene	0.0261	0.00500	"	0.0438	ND	59.5	40-140			
Chrysene	0.0258	0.00500	"	0.0438	ND	58.8	40-140			
Dibenz (a,h) anthracene	0.0244	0.00500	"	0.0438	ND	55.7	40-140			
Fluoranthene	0.0276	0.00500	"	0.0438	ND	62.9	40-140			
Fluorene	0.0215	0.00500	"	0.0438	0.00123	46.3	40-140			
Indeno (1,2,3-cd) pyrene	0.0265	0.00500	"	0.0438	ND	60.4	40-140			
Pyrene	0.0268	0.00500	"	0.0438	ND	61.1	40-140			
1-Methylnaphthalene	0.0209	0.00500	"	0.0438	0.00114	45.1	40-140			
2-Methylnaphthalene	0.0225	0.00500	"	0.0438	0.00140	48.1	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0234		"	0.0438		53.5	40-140			
Surrogate: Fluoranthene-d10	0.0279		"	0.0438		63.6	40-140			

Matrix Spike Dup (BJA0195-MSD1)

Source: 2601023-02

Prepared & Analyzed: 01/22/26

Acenaphthene	0.0202	0.00500	mg/kg dry	0.0438	ND	46.0	40-140	8.13	30	
Anthracene	0.0241	0.00500	"	0.0438	0.00259	49.1	40-140	4.08	30	
Benzo (a) anthracene	0.0237	0.00500	"	0.0438	ND	54.2	40-140	3.27	30	
Benzo (a) pyrene	0.0241	0.00500	"	0.0438	0.000657	53.6	40-140	5.47	30	
Benzo (b) fluoranthene	0.0230	0.00500	"	0.0438	ND	52.6	40-140	6.44	30	
Benzo (k) fluoranthene	0.0235	0.00500	"	0.0438	ND	53.7	40-140	10.2	30	
Chrysene	0.0241	0.00500	"	0.0438	ND	55.0	40-140	6.68	30	
Dibenz (a,h) anthracene	0.0226	0.00500	"	0.0438	ND	51.5	40-140	7.84	30	
Fluoranthene	0.0255	0.00500	"	0.0438	ND	58.1	40-140	7.93	30	
Fluorene	0.0215	0.00500	"	0.0438	0.00123	46.3	40-140	0.00	30	
Indeno (1,2,3-cd) pyrene	0.0222	0.00500	"	0.0438	ND	50.6	40-140	17.7	30	
Pyrene	0.0241	0.00500	"	0.0438	ND	55.0	40-140	10.5	30	
1-Methylnaphthalene	0.0207	0.00500	"	0.0438	0.00114	44.7	40-140	0.842	30	
2-Methylnaphthalene	0.0210	0.00500	"	0.0438	0.00140	44.8	40-140	6.65	30	
Surrogate: 2-Methylnaphthalene-d10	0.0233		"	0.0438		53.1	40-140			
Surrogate: Fluoranthene-d10	0.0268		"	0.0438		61.1	40-140			

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Quandary Consultants
4480 Garfield St
Denver CO, 80237

Project: Bison IV - Fabrizzius 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
01/23/26 11:12

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch BJA0190 - EPA 3050B

Blank (BJA0190-BLK1)

Prepared: 01/21/26 Analyzed: 01/22/26

Boron ND 1.00 mg/L wet

LCS (BJA0190-BS1)

Prepared: 01/21/26 Analyzed: 01/22/26

Boron 5.08 1.00 mg/L wet 4.99 102 80-120

Duplicate (BJA0190-DUP1)

Source: 2601022-01

Prepared: 01/21/26 Analyzed: 01/22/26

Boron 0.214 1.00 mg/L dry 0.225 4.93 20

Matrix Spike (BJA0190-MS1)

Source: 2601022-01

Prepared: 01/21/26 Analyzed: 01/22/26

Boron 4.89 1.00 mg/L dry 5.22 0.225 89.4 75-125

Matrix Spike Dup (BJA0190-MSD1)

Source: 2601022-01

Prepared: 01/21/26 Analyzed: 01/22/26

Boron 5.00 1.00 mg/L dry 5.23 0.225 91.5 75-125 2.32 25

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Quandary Consultants
4480 Garfield St
Denver CO, 80237

Project: Bison IV - Fabrizzius 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
01/23/26 11:12

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BJA0191 - EPA 3050B

Blank (BJA0191-BLK1)

Prepared: 01/21/26 Analyzed: 01/22/26

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 (BJA0191-BS1)

Prepared: 01/21/26 Analyzed: 01/22/26

Arsenic	39.1	0.200	mg/kg wet	40.0		97.8	80-120			
Barium	39.2	0.400	"	40.0		98.1	80-120			
Cadmium	1.96	0.200	"	2.00		98.0	80-120			
Copper	40.9	0.400	"	40.0		102	80-120			
Lead	19.7	0.200	"	20.0		98.5	80-120			
Nickel	40.4	0.400	"	40.0		101	80-120			
Silver	1.97	0.0200	"	2.00		98.5	80-120			
Zinc	39.9	0.400	"	40.0		99.9	80-120			
Selenium	3.87	0.260	"	4.00		96.9	80-120			

Matrix Spike (BJA0191-MS1)

Source: 2601022-01

Prepared: 01/21/26 Analyzed: 01/22/26

Arsenic	41.1	0.200	mg/kg dry	41.9	2.53	91.9	75-125			
Barium	781	0.400	"	41.9	773	19.4	75-125			QM-05
Cadmium	2.39	0.200	"	2.10	0.432	93.3	75-125			
Copper	47.3	0.400	"	41.9	9.94	89.0	75-125			
Lead	23.8	0.200	"	21.0	4.41	92.6	75-125			
Nickel	46.0	0.400	"	41.9	8.04	90.5	75-125			
Silver	2.06	0.0200	"	2.10	0.0266	97.0	75-125			
Zinc	62.7	0.400	"	41.9	21.5	98.1	75-125			
Selenium	4.16	0.260	"	4.19	0.527	86.6	75-125			

Summit Scientific

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Quandary Consultants
 4480 Garfield St
 Denver CO, 80237

Project: Bison IV - Fabrizzius 33-14

Project Number: [none]
 Project Manager: Will Blust

Reported:
 01/23/26 11:12

Total Metals by EPA 6020B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Notes
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Batch BJA0191 - EPA 3050B

Matrix Spike Dup (BJA0191-MSD1)

Source: 2601022-01

Prepared: 01/21/26 Analyzed: 01/22/26

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Notes
Arsenic	41.4	0.200	mg/kg dry	41.9	2.53	92.7	75-125	0.870	25	
Barium	834	0.400	"	41.9	773	146	75-125	6.58	25	QM-05
Cadmium	2.47	0.200	"	2.10	0.432	97.4	75-125	3.54	25	
Copper	48.8	0.400	"	41.9	9.94	92.6	75-125	3.14	25	
Lead	24.0	0.200	"	21.0	4.41	93.6	75-125	0.922	25	
Nickel	47.9	0.400	"	41.9	8.04	95.0	75-125	4.09	25	
Silver	2.05	0.0200	"	2.10	0.0266	96.7	75-125	0.306	25	
Zinc	58.6	0.400	"	41.9	21.5	88.4	75-125	6.71	25	
Selenium	4.10	0.260	"	4.19	0.527	85.1	75-125	1.48	25	

Summit Scientific

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Quandary Consultants
4480 Garfield St
Denver CO, 80237

Project: Bison IV - Fabrizzius 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
01/23/26 11:12

Hexavalent Chromium by HACH M8023 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch BJA0192 - 3060A_Mod

Blank (BJA0192-BLK1)

Prepared: 01/21/26 Analyzed: 01/22/26

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BJA0192-BS1)

Prepared: 01/21/26 Analyzed: 01/22/26

Chromium, Hexavalent 24.5 0.30 mg/kg wet 24.5 100 80-120

Duplicate (BJA0192-DUP1)

Source: 2601022-01

Prepared: 01/21/26 Analyzed: 01/22/26

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BJA0192-MS1)

Source: 2601022-01

Prepared: 01/21/26 Analyzed: 01/22/26

Chromium, Hexavalent 26.2 0.30 mg/kg dry 26.7 ND 97.8 75-125

Matrix Spike Dup (BJA0192-MSD1)

Source: 2601022-01

Prepared: 01/21/26 Analyzed: 01/22/26

Chromium, Hexavalent 28.2 0.30 mg/kg dry 27.3 ND 103 75-125 7.63 20

Summit Scientific

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Quandary Consultants
 4480 Garfield St
 Denver CO, 80237

Project: Bison IV - Fabrizzius 33-14

Project Number: [none]
 Project Manager: Will Blust

Reported:
 01/23/26 11:12

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Notes
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Batch BJA0187 - General Preparation

Blank (BJA0187-BLK1)

Prepared: 01/21/26 Analyzed: 01/22/26

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

LCS (BJA0187-BS1)

Prepared: 01/21/26 Analyzed: 01/22/26

Calcium	5.28	0.0500	mg/L wet	5.00		106	70-130			
Magnesium	4.65	0.0500	"	5.00		92.9	70-130			
Sodium	4.50	0.0500	"	5.00		90.0	70-130			

Summit Scientific

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Quandary Consultants
4480 Garfield St
Denver CO, 80237

Project: Bison IV - Fabrizzius 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
01/23/26 11:12

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch BJA0186 - General Preparation

Duplicate (BJA0186-DUP1)

Source: 2601022-01

Prepared: 01/21/26 Analyzed: 01/22/26

% Solids	95.7	%		95.4		0.297	20
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Summit Scientific

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Quandary Consultants
 4480 Garfield St
 Denver CO, 80237

Project: Bison IV - Fabrizzius 33-14

Project Number: [none]
 Project Manager: Will Blust

Reported:
 01/23/26 11:12

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch BJA0188 - General Preparation

Blank (BJA0188-BLK1)		Prepared: 01/21/26 Analyzed: 01/22/26								
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
LCS (BJA0188-BS1)		Prepared: 01/21/26 Analyzed: 01/22/26								
Specific Conductance (EC)	1.45	0.0100	mmhos/cm	1.41		103	95-105			
Duplicate (BJA0188-DUP1)		Source: 2601022-01 Prepared: 01/21/26 Analyzed: 01/22/26								
Specific Conductance (EC)	1.46	0.0100	mmhos/cm		1.49			2.06	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.



Quandary Consultants
 4480 Garfield St
 Denver CO, 80237

Project: Bison IV - Fabrizzius 33-14

Project Number: [none]
 Project Manager: Will Blust

Reported:
 01/23/26 11:12

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch BJA0189 - General Preparation

LCS (BJA0189-BS1)

Prepared: 01/21/26 Analyzed: 01/22/26

pH	9.04		pH Units	9.18		98.5	95-105			
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Duplicate (BJA0189-DUP1)

Source: 2601022-01

Prepared: 01/21/26 Analyzed: 01/22/26

pH	8.24		pH Units	8.21				0.272	20	
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Summit Scientific

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Quandary Consultants
4480 Garfield St
Denver CO, 80237

Project: Bison IV - Fabrizius 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
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Notes and Definitions

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.

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