

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 15, 2026

Will Blust

Quandary Consultants

4480 Garfield St

Denver, CO 80237

RE: Bison IV - Fabrizio 33-14

Work Order #2601010

Enclosed are the results of analyses for samples received by Summit Scientific on 01/13/26 15:34. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Amanda Stilwell". The signature is fluid and cursive, with a large initial "A" and "S".

Amanda Stilwell For Gavin Stonehouse
Lab Manager



Quandary Consultants
4480 Garfield St
Denver CO, 80237

Project: Bison IV - Fabrizzius 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
01/15/26 12:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB01@7'	2601010-01	Soil	01/13/26 11:46	01/13/26 15:34
E02@3'	2601010-02	Soil	01/13/26 11:53	01/13/26 15:34
W02@3'	2601010-03	Soil	01/13/26 12:21	01/13/26 15:34

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

Lab ID	Page	of
2601010		

Client: <u>Quandary Consultants</u>		Project Manager: <u>Will Blust</u>		Company: <u>Quandary Consultants</u>	
Address: <u>4480 Garfield St</u>		E-Mail: <u>Samples@quandaryconsultants.com</u>		Project Name/Location: <u>Fabrizius 33-14, Bison</u>	
City/State/Zip: <u>Denver, CO, 80216</u>		Project Name: <u>Fabrizius 33-14</u>		AFE#:	
Phone: <u>831-227-7308</u>		Project Number: <u>Bison IV</u>		PO/Billing Codes:	
Sampler Name: <u>Andrew Christensen</u>		Contact:			

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Fol/T-915-1						
1	SB01@7'	1/13/26	11:46	3			X			X			X						
2	E02@3'	1/13/26	11:53	3			X			X			X						
3	W02@3'	1/13/26	12:21	3			X			X			X						
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <u>Andrew Christensen</u>	Date/Time: <u>1/13/26 15:34</u>	Received by: <u>Jh Deper</u>	Date/Time: <u>15:34 1/13/26</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: <u>3.6</u>	Corrected Temperature: <u>3.7</u>	IR gun #: <u>2</u>	HNO3 lot #:	Standard	<input checked="" type="checkbox"/> Field Turb.	



Sample Receipt Checklist

Client: Quandary Client Project ID: Bison IV - Fabrizius 33-14Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____Matrix (Circle all that apply) Air/ Soil /Water/Other Temp (°C) 3.6 Corrected (°C) 3.7Thermometer 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"/>			<u>ON ICE</u>
If custody seals are present, are they intact? ⁽¹⁾			<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?			<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 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"/>			
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>			
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>			
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>			
Were samples provided in appropriate bottleware?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			<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 checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.			<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?			<input checked="" type="checkbox"/>	
Will any samples be performed outside of Summit Scientific? Note analysis in comments column		<input checked="" 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 Name1/13/26 ¹⁵³⁴
Date/Time



Quandary Consultants
4480 Garfield St
Denver CO, 80237

Project: Bison IV - Fabrizzius 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
01/15/26 12:53

SB01@7'
2601010-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/13/26 11:46**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0025	mg/kg dry	1	BJA0095	01/13/26	01/14/26	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.015	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.0071	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	0.0047	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/13/26 11:46**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0557	106 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0544	104 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0525	100 %	50-150	"	"	"	"	"	

PAH by EPA Method 8270E SIM

Date Sampled: **01/13/26 11:46**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Acenaphthene	0.000659	0.00500	mg/kg dry	1	BJA0103	01/14/26	01/14/26	EPA 8270E SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.000923	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.000791	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.00154	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.00149	0.00500	"	"	"	"	"	"	
Chrysene	0.00268	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.00180	0.00500	"	"	"	"	"	"	
Fluorene	0.0112	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.000923	0.00500	"	"	"	"	"	"	
Pyrene	0.00426	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0133	0.00500	"	"	"	"	"	"	

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Project: Bison IV - Fabrzius 33-14

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Project Manager: Will Blust

Reported:
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SB01@7'
2601010-01 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

2-Methylnaphthalene 0.0210 0.00500 mg/kg dry 1 BJA0103 01/14/26 01/14/26 EPA 8270E SIM

Date Sampled: 01/13/26 11:46

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0179	40.7 %	40-140	"	"	"	"	"	
Surrogate: Fluoranthene-d10	0.0281	63.9 %	40-140	"	"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: 01/13/26 11:46

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	1.00	mg/L dry	1	BJA0094	01/13/26	01/14/26	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: 01/13/26 11:46

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.55	0.200	mg/kg dry	1	BJA0093	01/13/26	01/14/26	EPA 6020B	
Barium	267	0.400	"	"	"	"	"	"	
Cadmium	0.488	0.200	"	"	"	"	"	"	
Copper	8.81	0.400	"	"	"	"	"	"	
Lead	10.6	0.200	"	"	"	"	"	"	
Nickel	7.78	0.400	"	"	"	"	"	"	
Silver	0.0319	0.0200	"	"	"	"	"	"	
Zinc	32.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: 01/13/26 11:46

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BJA0090	01/13/26	01/14/26	HACH M10218	

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Project: Bison IV - Fabrizzius 33-14
Project Number: [none]
Project Manager: Will Blust

Reported:
01/15/26 12:53

SB01@7'
2601010-01 (Soil)

Summit Scientific

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

Date Sampled: **01/13/26 11:46**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	118	0.0500	mg/L dry	1	BJA0092	01/13/26	01/14/26	EPA 6020B	
Magnesium	14.1	0.0500	"	"	"	"	"	"	
Sodium	56.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/13/26 11:46**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	1.31	0.00100	units	1	BJA0104	01/14/26	01/14/26	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/13/26 11:46**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	76.5		%	1	BJA0091	01/13/26	01/14/26	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/13/26 11:46**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.210	0.0100	mmhos/cm	1	BJA0098	01/13/26	01/14/26	EPA 120.1	

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

Date Sampled: **01/13/26 11:46**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.89		pH Units	1	BJA0097	01/13/26	01/14/26	EPA 9045D	

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Project: Bison IV - Fabrizzius 33-14

Project Number: [none]
 Project Manager: Will Blust

Reported:
 01/15/26 12:53

SB01@7'
2601010-01RE1 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/13/26 11:46**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg dry	1	BJA0099	01/14/26	01/14/26	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/13/26 11:46**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: <i>o</i> -Terphenyl	32.3	97.7 %	50-140		"	"	"	"	

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Project Number: [none]
Project Manager: Will Blust

Reported:
01/15/26 12:53

E02@3'
2601010-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/13/26 11:53**

Analyte	Result	Reporting							
		Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0025	mg/kg dry	1	BJA0095	01/13/26	01/14/26	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.023	0.015	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.095	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.023	0.0050	"	"	"	"	"	"	
Naphthalene	0.10	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.1	0.50	"	"	"	"	"	"	

Date Sampled: **01/13/26 11:53**

Analyte	Result	Reporting							
		Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0500	109 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0500	109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0471	102 %	50-150		"	"	"	"	

PAH by EPA Method 8270E SIM

Date Sampled: **01/13/26 11:53**

Analyte	Result	Reporting							
		Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0151	0.00500	mg/kg dry	1	BJA0103	01/14/26	01/14/26	EPA 8270E SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.00703	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0194	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.00262	0.00500	"	"	"	"	"	"	
Chrysene	0.0649	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	0.00243	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0276	0.00500	"	"	"	"	"	"	
Fluorene	0.402	0.0500	"	10	"	"	01/14/26	"	R-06
Indeno (1,2,3-cd) pyrene	0.00367	0.00500	"	1	"	"	01/14/26	"	
Pyrene	0.0599	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	1.50	0.0500	"	10	"	"	01/14/26	"	R-06

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Project: Bison IV - Fabrzius 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
01/15/26 12:53

E02@3'

2601010-02 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

2-Methylnaphthalene 2.04 0.100 mg/kg dry 20 BJA0103 01/14/26 01/14/26 EPA 8270E SIM R-06

Date Sampled: 01/13/26 11:53

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0187	50.0 %	40-140	"	"	"	01/14/26	"	
Surrogate: Fluoranthene-d10	0.0293	78.2 %	40-140	"	"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: 01/13/26 11:53

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	1.00	mg/L dry	1	BJA0094	01/13/26	01/14/26	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: 01/13/26 11:53

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.86	0.200	mg/kg dry	1	BJA0093	01/13/26	01/14/26	EPA 6020B	
Barium	234	0.400	"	"	"	"	"	"	
Cadmium	0.346	0.200	"	"	"	"	"	"	
Copper	7.95	0.400	"	"	"	"	"	"	
Lead	14.9	0.200	"	"	"	"	"	"	
Nickel	5.56	0.400	"	"	"	"	"	"	
Silver	0.0227	0.0200	"	"	"	"	"	"	
Zinc	24.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: 01/13/26 11:53

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BJA0090	01/13/26	01/14/26	HACH M10218	

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Project: Bison IV - Fabrizzius 33-14
Project Number: [none]
Project Manager: Will Blust

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01/15/26 12:53

E02@3'
2601010-02 (Soil)

Summit Scientific

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

Date Sampled: **01/13/26 11:53**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	261	0.0500	mg/L dry	1	BJA0092	01/13/26	01/14/26	EPA 6020B	
Magnesium	13.8	0.0500	"	"	"	"	"	"	
Sodium	11.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/13/26 11:53**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.181	0.00100	units	1	BJA0104	01/14/26	01/14/26	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/13/26 11:53**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	88.2		%	1	BJA0091	01/13/26	01/14/26	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/13/26 11:53**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.198	0.0100	mmhos/cm	1	BJA0098	01/13/26	01/14/26	EPA 120.1	

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

Date Sampled: **01/13/26 11:53**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.13		pH Units	1	BJA0097	01/13/26	01/14/26	EPA 9045D	

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Project: Bison IV - Fabrizzius 33-14

Project Number: [none]
 Project Manager: Will Blust

Reported:
 01/15/26 12:53

E02@3'
2601010-02RE1 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/13/26 11:53**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	1000	50	mg/kg dry	1	BJA0099	01/14/26	01/14/26	EPA 8015M	
C28-C36 (ORO)	710	50	"	"	"	"	"	"	

Date Sampled: **01/13/26 11:53**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: <i>o</i> -Terphenyl	27.5	96.1 %	50-140		"	"	"	"	

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Project: Bison IV - Fabrizzius 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
01/15/26 12:53

W02@3'
2601010-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/13/26 12:21**

Analyte	Result	Reporting							
		Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0025	mg/kg dry	1	BJA0095	01/13/26	01/14/26	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.018	0.015	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.040	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.015	0.0050	"	"	"	"	"	"	
Naphthalene	0.034	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.1	0.50	"	"	"	"	"	"	

Date Sampled: **01/13/26 12:21**

Analyte	Result	Reporting							
		Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0568	114 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0560	113 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0504	101 %	50-150		"	"	"	"	

PAH by EPA Method 8270E SIM

Date Sampled: **01/13/26 12:21**

Analyte	Result	Reporting							
		Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0206	0.00500	mg/kg dry	1	BJA0103	01/14/26	01/14/26	EPA 8270E SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.00447	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0132	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.00189	0.00500	"	"	"	"	"	"	
Chrysene	0.0440	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	0.00242	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0174	0.00500	"	"	"	"	"	"	
Fluorene	0.233	0.0500	"	10	"	"	01/14/26	"	R-06
Indeno (1,2,3-cd) pyrene	0.00291	0.00500	"	1	"	"	01/14/26	"	
Pyrene	0.0379	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.650	0.0500	"	10	"	"	01/14/26	"	R-06

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Quandary Consultants
4480 Garfield St
Denver CO, 80237

Project: Bison IV - Fabrzius 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
01/15/26 12:53

W02@3'
2601010-03 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

2-Methylnaphthalene **0.939** 0.0500 mg/kg dry 10 BJA0103 01/14/26 01/14/26 EPA 8270E SIM R-06

Date Sampled: **01/13/26 12:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0260	63.3 %	40-140	"	"	"	01/14/26	"	
Surrogate: Fluoranthene-d10	0.0300	73.0 %	40-140	"	"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/13/26 12:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	1.00	mg/L dry	1	BJA0094	01/13/26	01/14/26	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/13/26 12:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.83	0.200	mg/kg dry	1	BJA0093	01/13/26	01/14/26	EPA 6020B	
Barium	215	0.400	"	"	"	"	"	"	
Cadmium	0.361	0.200	"	"	"	"	"	"	
Copper	9.82	0.400	"	"	"	"	"	"	
Lead	10.3	0.200	"	"	"	"	"	"	
Nickel	5.66	0.400	"	"	"	"	"	"	
Silver	0.0258	0.0200	"	"	"	"	"	"	
Zinc	25.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **01/13/26 12:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BJA0090	01/13/26	01/14/26	HACH M10218	

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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:
01/15/26 12:53

W02@3'
2601010-03 (Soil)

Summit Scientific

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

Date Sampled: **01/13/26 12:21**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	124	0.0500	mg/L dry	1	BJA0092	01/13/26	01/14/26	EPA 6020B	
Magnesium	11.6	0.0500	"	"	"	"	"	"	
Sodium	12.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/13/26 12:21**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.276	0.00100	units	1	BJA0104	01/14/26	01/14/26	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/13/26 12:21**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	81.2		%	1	BJA0091	01/13/26	01/14/26	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/13/26 12:21**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.428	0.0100	mmhos/cm	1	BJA0098	01/13/26	01/14/26	EPA 120.1	

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

Date Sampled: **01/13/26 12:21**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.47		pH Units	1	BJA0097	01/13/26	01/14/26	EPA 9045D	

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 4480 Garfield St
 Denver CO, 80237

Project: Bison IV - Fabrizzius 33-14

Project Number: [none]
 Project Manager: Will Blust

Reported:
 01/15/26 12:53

W02@3'
2601010-03RE1 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/13/26 12:21**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	480	50	mg/kg dry	1	BJA0099	01/14/26	01/14/26	EPA 8015M	
C28-C36 (ORO)	350	50	"	"	"	"	"	"	

Date Sampled: **01/13/26 12:21**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<i>Surrogate: o-Terphenyl</i>	33.4	108 %	50-140		"	"	"	"	

Summit Scientific

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Quandary Consultants
4480 Garfield St
Denver CO, 80237

Project: Bison IV - Fabrzius 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
01/15/26 12:53

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BJA0095 - EPA 5030 Soil MS

Blank (BJA0095-BLK1)

Prepared & Analyzed: 01/13/26

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>	<i>0.0404</i>		<i>"</i>	<i>0.0399</i>		<i>101</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0417</i>		<i>"</i>	<i>0.0399</i>		<i>104</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0406</i>		<i>"</i>	<i>0.0399</i>		<i>102</i>	<i>50-150</i>			

LCS (BJA0095-BS1)

Prepared & Analyzed: 01/13/26

Benzene	0.0892	0.0025	mg/kg wet	0.0984		90.6	70-130			
Toluene	0.0923	0.0050	"	0.0984		93.8	70-130			
Ethylbenzene	0.0891	0.0050	"	0.0984		90.5	70-130			
m,p-Xylene	0.177	0.010	"	0.197		90.0	70-130			
o-Xylene	0.0894	0.0050	"	0.0984		90.8	70-130			
1,2,4-Trimethylbenzene	0.0914	0.0050	"	0.0984		92.9	70-130			
1,3,5-Trimethylbenzene	0.0911	0.0050	"	0.0984		92.5	70-130			
Naphthalene	0.0976	0.0038	"	0.0984		99.2	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0418</i>		<i>"</i>	<i>0.0394</i>		<i>106</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0413</i>		<i>"</i>	<i>0.0394</i>		<i>105</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0410</i>		<i>"</i>	<i>0.0394</i>		<i>104</i>	<i>50-150</i>			

Matrix Spike (BJA0095-MS1)

Source: 2601010-01

Prepared & Analyzed: 01/13/26

Benzene	0.117	0.0025	mg/kg dry	0.131	ND	89.5	70-130			
Toluene	0.120	0.0050	"	0.131	ND	91.2	70-130			
Ethylbenzene	0.116	0.0050	"	0.131	ND	88.3	70-130			
m,p-Xylene	0.232	0.010	"	0.262	0.00612	86.3	70-130			
o-Xylene	0.118	0.0050	"	0.131	0.00494	86.3	70-130			
1,2,4-Trimethylbenzene	0.129	0.0050	"	0.131	0.00706	92.8	70-130			
1,3,5-Trimethylbenzene	0.120	0.0050	"	0.131	0.00334	89.4	70-130			
Naphthalene	0.139	0.0038	"	0.131	0.00475	103	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0554</i>		<i>"</i>	<i>0.0524</i>		<i>106</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0534</i>		<i>"</i>	<i>0.0524</i>		<i>102</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0534</i>		<i>"</i>	<i>0.0524</i>		<i>102</i>	<i>50-150</i>			

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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:
01/15/26 12:53

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limit	RPD	RPD Limit	Notes
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Batch BJA0095 - EPA 5030 Soil MS

Matrix Spike Dup (BJA0095-MSD1)

Source: 2601010-01

Prepared & Analyzed: 01/13/26

Benzene	0.114	0.0025	mg/kg dry	0.132	ND	86.5	70-130	2.87	30	
Toluene	0.114	0.0050	"	0.132	ND	86.2	70-130	5.05	30	
Ethylbenzene	0.110	0.0050	"	0.132	ND	83.6	70-130	4.81	30	
m,p-Xylene	0.221	0.010	"	0.264	0.00612	81.4	70-130	5.09	30	
o-Xylene	0.112	0.0050	"	0.132	0.00494	81.2	70-130	5.23	30	
1,2,4-Trimethylbenzene	0.118	0.0050	"	0.132	0.00706	84.5	70-130	8.30	30	
1,3,5-Trimethylbenzene	0.111	0.0050	"	0.132	0.00334	81.7	70-130	8.08	30	
Naphthalene	0.129	0.0038	"	0.132	0.00475	94.0	70-130	7.84	30	
Surrogate: 1,2-Dichloroethane-d4	0.0574		"	0.0527		109	50-150			
Surrogate: Toluene-d8	0.0562		"	0.0527		107	50-150			
Surrogate: 4-Bromofluorobenzene	0.0537		"	0.0527		102	50-150			

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Quandary Consultants
4480 Garfield St
Denver CO, 80237

Project: Bison IV - Fabrzius 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
01/15/26 12:53

Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limit	RPD	RPD Limit	Notes
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Batch BJA0099 - EPA 3550A

Blank (BJA0099-BLK1)

Prepared & Analyzed: 01/14/26

C10-C28 (DRO)	ND	50	mg/kg wet							
C28-C36 (ORO)	ND	50	"							
Surrogate: <i>o</i> -Terphenyl	26.4		"	25.2		105	50-140			

LCS (BJA0099-BS1)

Prepared & Analyzed: 01/14/26

C10-C28 (DRO)	447	50	mg/kg wet	493		90.7	50-140			
C28-C36 (ORO)	438	50	"	493		88.8	0-200			
Surrogate: <i>o</i> -Terphenyl	24.9		"	24.7		101	50-140			

Matrix Spike (BJA0099-MS1)

Source: 2601011-01RE1

Prepared & Analyzed: 01/14/26

C10-C28 (DRO)	535	50	mg/kg dry	546	ND	97.9	50-140			
C28-C36 (ORO)	547	50	"	546	ND	100	0-200			
Surrogate: <i>o</i> -Terphenyl	27.1		"	27.3		99.3	50-140			

Matrix Spike Dup (BJA0099-MSD1)

Source: 2601011-01RE1

Prepared & Analyzed: 01/14/26

C10-C28 (DRO)	510	50	mg/kg dry	542	ND	94.1	50-140	4.76	20	
C28-C36 (ORO)	507	50	"	542	ND	93.5	0-200	7.53	200	
Surrogate: <i>o</i> -Terphenyl	26.2		"	27.1		96.5	50-140			

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Quandary Consultants
4480 Garfield St
Denver CO, 80237

Project: Bison IV - Fabrzius 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
01/15/26 12:53

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 BJA0103 - EPA 3550A

Blank (BJA0103-BLK1)

Prepared & Analyzed: 01/14/26

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	0.0172		"	0.0334		51.6	40-140			
Surrogate: Fluoranthene-d10	0.0204		"	0.0334		61.2	40-140			

LCS (BJA0103-BS1)

Prepared & Analyzed: 01/14/26

Acenaphthene	0.0214	0.00500	mg/kg wet	0.0332		64.6	40-140			
Anthracene	0.0221	0.00500	"	0.0332		66.6	40-140			
Benzo (a) anthracene	0.0221	0.00500	"	0.0332		66.6	40-140			
Benzo (a) pyrene	0.0221	0.00500	"	0.0332		66.8	40-140			
Benzo (b) fluoranthene	0.0222	0.00500	"	0.0332		66.9	40-140			
Benzo (k) fluoranthene	0.0224	0.00500	"	0.0332		67.5	40-140			
Chrysene	0.0219	0.00500	"	0.0332		65.9	40-140			
Dibenz (a,h) anthracene	0.0176	0.00500	"	0.0332		53.1	40-140			
Fluoranthene	0.0222	0.00500	"	0.0332		67.0	40-140			
Fluorene	0.0233	0.00500	"	0.0332		70.2	40-140			
Indeno (1,2,3-cd) pyrene	0.0199	0.00500	"	0.0332		60.1	40-140			
Pyrene	0.0218	0.00500	"	0.0332		65.6	40-140			
1-Methylnaphthalene	0.0197	0.00500	"	0.0332		59.3	40-140			
2-Methylnaphthalene	0.0196	0.00500	"	0.0332		59.0	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0204		"	0.0332		61.5	40-140			
Surrogate: Fluoranthene-d10	0.0268		"	0.0332		80.7	40-140			

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Quandary Consultants
4480 Garfield St
Denver CO, 80237

Project: Bison IV - Fabrzius 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
01/15/26 12:53

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 BJA0103 - EPA 3550A

Matrix Spike (BJA0103-MSI)

Source: 2601011-01

Prepared & Analyzed: 01/14/26

Acenaphthene	0.0169	0.00500	mg/kg dry	0.0363	ND	46.4	40-140			
Anthracene	0.0234	0.00500	"	0.0363	0.00118	61.2	40-140			
Benzo (a) anthracene	0.0247	0.00500	"	0.0363	0.000679	66.2	40-140			
Benzo (a) pyrene	0.0235	0.00500	"	0.0363	0.000643	62.9	40-140			
Benzo (b) fluoranthene	0.0235	0.00500	"	0.0363	0.000679	62.7	40-140			
Benzo (k) fluoranthene	0.0236	0.00500	"	0.0363	0.000715	63.0	40-140			
Chrysene	0.0245	0.00500	"	0.0363	ND	67.4	40-140			
Dibenz (a,h) anthracene	0.0200	0.00500	"	0.0363	ND	55.0	40-140			
Fluoranthene	0.0258	0.00500	"	0.0363	0.00104	68.2	40-140			
Fluorene	0.0211	0.00500	"	0.0363	ND	58.0	40-140			
Indeno (1,2,3-cd) pyrene	0.0204	0.00500	"	0.0363	0.00118	53.0	40-140			
Pyrene	0.0230	0.00500	"	0.0363	0.00164	58.9	40-140			
1-Methylnaphthalene	0.0130	0.00500	"	0.0363	ND	35.9	40-140			QM-01
2-Methylnaphthalene	0.0132	0.00500	"	0.0363	ND	36.4	40-140			QM-01
Surrogate: 2-Methylnaphthalene-d10	0.0154		"	0.0363		42.4	40-140			
Surrogate: Fluoranthene-d10	0.0291		"	0.0363		80.0	40-140			

Matrix Spike Dup (BJA0103-MSD1)

Source: 2601011-01

Prepared & Analyzed: 01/14/26

Acenaphthene	0.0200	0.00500	mg/kg dry	0.0360	ND	55.4	40-140	16.9	30	
Anthracene	0.0290	0.00500	"	0.0360	0.00118	77.3	40-140	21.5	30	
Benzo (a) anthracene	0.0295	0.00500	"	0.0360	0.000679	79.9	40-140	17.5	30	
Benzo (a) pyrene	0.0300	0.00500	"	0.0360	0.000643	81.4	40-140	24.2	30	
Benzo (b) fluoranthene	0.0293	0.00500	"	0.0360	0.000679	79.4	40-140	22.1	30	
Benzo (k) fluoranthene	0.0290	0.00500	"	0.0360	0.000715	78.4	40-140	20.4	30	
Chrysene	0.0312	0.00500	"	0.0360	ND	86.6	40-140	24.1	30	
Dibenz (a,h) anthracene	0.0254	0.00500	"	0.0360	ND	70.5	40-140	23.9	30	
Fluoranthene	0.0307	0.00500	"	0.0360	0.00104	82.4	40-140	17.3	30	
Fluorene	0.0250	0.00500	"	0.0360	ND	69.3	40-140	16.9	30	
Indeno (1,2,3-cd) pyrene	0.0258	0.00500	"	0.0360	0.00118	68.2	40-140	23.1	30	
Pyrene	0.0284	0.00500	"	0.0360	0.00164	74.3	40-140	21.0	30	
1-Methylnaphthalene	0.0151	0.00500	"	0.0360	ND	42.0	40-140	14.8	30	
2-Methylnaphthalene	0.0179	0.00500	"	0.0360	ND	49.6	40-140	29.9	30	
Surrogate: 2-Methylnaphthalene-d10	0.0171		"	0.0360		47.6	40-140			
Surrogate: Fluoranthene-d10	0.0322		"	0.0360		89.4	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:
 01/15/26 12:53

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limit	RPD	RPD Limit	Notes
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Batch BJA0094 - EPA 3050B

Blank (BJA0094-BLK1)				Prepared: 01/13/26 Analyzed: 01/14/26						
Boron	ND	1.00	mg/L wet							
LCS (BJA0094-BS1)				Prepared: 01/13/26 Analyzed: 01/14/26						
Boron	5.37	1.00	mg/L wet	5.00		108	80-120			
Duplicate (BJA0094-DUP1)				Source: 2601010-01 Prepared: 01/13/26 Analyzed: 01/14/26						
Boron	0.205	1.00	mg/L dry		0.240			15.7	20	
Matrix Spike (BJA0094-MS1)				Source: 2601010-01 Prepared: 01/13/26 Analyzed: 01/14/26						
Boron	5.93	1.00	mg/L dry	6.51	0.240	87.4	75-125			
Matrix Spike Dup (BJA0094-MSD1)				Source: 2601010-01 Prepared: 01/13/26 Analyzed: 01/14/26						
Boron	6.21	1.00	mg/L dry	6.53	0.240	91.4	75-125	4.65	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:
01/15/26 12:53

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 BJA0093 - EPA 3050B

Blank (BJA0093-BLK1)

Prepared: 01/13/26 Analyzed: 01/14/26

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 (BJA0093-BS1)

Prepared: 01/13/26 Analyzed: 01/14/26

Arsenic	41.9	0.200	mg/kg wet	38.8	108	80-120
Barium	40.4	0.400	"	38.8	104	80-120
Cadmium	2.03	0.200	"	1.94	105	80-120
Copper	42.9	0.400	"	38.8	111	80-120
Lead	20.3	0.200	"	19.4	105	80-120
Nickel	42.8	0.400	"	38.8	111	80-120
Silver	2.06	0.0200	"	1.94	106	80-120
Zinc	42.0	0.400	"	38.8	108	80-120
Selenium	4.54	0.260	"	3.88	117	80-120

Duplicate (BJA0093-DUP1)

Source: 2601010-01

Prepared: 01/13/26 Analyzed: 01/14/26

Arsenic	4.65	0.200	mg/kg dry	4.55	1.98	20
Barium	260	0.400	"	267	2.68	20
Cadmium	0.580	0.200	"	0.488	17.2	20
Copper	8.76	0.400	"	8.81	0.598	20
Lead	10.2	0.200	"	10.6	3.71	20
Nickel	7.92	0.400	"	7.78	1.73	20
Silver	0.0324	0.0200	"	0.0319	1.67	20
Zinc	31.8	0.400	"	32.1	0.812	20
Selenium	ND	0.260	"	ND		20

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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:
01/15/26 12:53

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BJA0093 - EPA 3050B

Matrix Spike (BJA0093-MS1)

Source: 2601010-01

Prepared: 01/13/26 Analyzed: 01/14/26

Arsenic	58.9	0.200	mg/kg dry	53.6	4.55	101	75-125		
Barium	321	0.400	"	53.6	267	100	75-125		
Cadmium	3.39	0.200	"	2.68	0.488	108	75-125		
Copper	59.9	0.400	"	53.6	8.81	95.3	75-125		
Lead	37.9	0.200	"	26.8	10.6	102	75-125		
Nickel	59.3	0.400	"	53.6	7.78	96.0	75-125		
Silver	2.81	0.0200	"	2.68	0.0319	104	75-125		
Zinc	85.6	0.400	"	53.6	32.1	99.9	75-125		
Selenium	5.88	0.260	"	5.36	ND	110	75-125		

Matrix Spike Dup (BJA0093-MSD1)

Source: 2601010-01

Prepared: 01/13/26 Analyzed: 01/14/26

Arsenic	55.9	0.200	mg/kg dry	52.3	4.55	98.2	75-125	5.24	25	
Barium	383	0.400	"	52.3	267	222	75-125	17.7	25	QM-05
Cadmium	3.32	0.200	"	2.62	0.488	108	75-125	2.03	25	
Copper	57.1	0.400	"	52.3	8.81	92.3	75-125	4.76	25	
Lead	36.0	0.200	"	26.2	10.6	97.1	75-125	4.97	25	
Nickel	56.3	0.400	"	52.3	7.78	92.8	75-125	5.04	25	
Silver	2.76	0.0200	"	2.62	0.0319	104	75-125	1.63	25	
Zinc	80.3	0.400	"	52.3	32.1	92.2	75-125	6.46	25	
Selenium	5.66	0.260	"	5.23	ND	108	75-125	3.89	25	

Summit Scientific

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Denver CO, 80237

Project: Bison IV - Fabrizzius 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
01/15/26 12:53

Hexavalent Chromium by HACH M8023 - Quality Control
Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limit	RPD	RPD Limit	Notes
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Batch BJA0090 - 3060A_Mod

Blank (BJA0090-BLK1)

Prepared: 01/13/26 Analyzed: 01/14/26

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BJA0090-BS1)

Prepared: 01/13/26 Analyzed: 01/14/26

Chromium, Hexavalent 26.0 0.30 mg/kg wet 25.5 102 80-120

Duplicate (BJA0090-DUP1)

Source: 2601010-01

Prepared: 01/13/26 Analyzed: 01/14/26

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BJA0090-MS1)

Source: 2601010-01

Prepared: 01/13/26 Analyzed: 01/14/26

Chromium, Hexavalent 34.4 0.30 mg/kg dry 34.1 ND 101 75-125

Matrix Spike Dup (BJA0090-MSD1)

Source: 2601010-01

Prepared: 01/13/26 Analyzed: 01/14/26

Chromium, Hexavalent 34.9 0.30 mg/kg dry 34.4 ND 101 75-125 1.44 20

Summit Scientific

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 4480 Garfield St
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Project: Bison IV - Fabrizzius 33-14

Project Number: [none]
 Project Manager: Will Blust

Reported:
 01/15/26 12:53

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 BJA0092 - General Preparation

Blank (BJA0092-BLK1)

Prepared: 01/13/26 Analyzed: 01/14/26

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

LCS (BJA0092-BS1)

Prepared: 01/13/26 Analyzed: 01/14/26

Calcium	4.88	0.0500	mg/L wet	5.00		97.7	70-130			
Magnesium	4.78	0.0500	"	5.00		95.6	70-130			
Sodium	4.71	0.0500	"	5.00		94.3	70-130			

Summit Scientific

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 4480 Garfield St
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Project: Bison IV - Fabrizzius 33-14

Project Number: [none]
 Project Manager: Will Blust

Reported:
 01/15/26 12:53

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 BJA0091 - General Preparation

Duplicate (BJA0091-DUP1)	Source: 2601010-01	Prepared: 01/13/26	Analyzed: 01/14/26		
% Solids	74.6	%	76.5	2.45	20

Summit Scientific

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 4480 Garfield St
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Project: Bison IV - Fabrizzius 33-14

Project Number: [none]
 Project Manager: Will Blust

Reported:
 01/15/26 12:53

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Notes
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Batch BJA0098 - General Preparation

Blank (BJA0098-BLK1)

Prepared: 01/13/26 Analyzed: 01/14/26

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BJA0098-BS1)

Prepared: 01/13/26 Analyzed: 01/14/26

Specific Conductance (EC) 1.38 0.0100 mmhos/cm 1.41 97.8 95-105

Duplicate (BJA0098-DUP1)

Source: 2601010-01

Prepared: 01/13/26 Analyzed: 01/14/26

Specific Conductance (EC) 0.209 0.0100 mmhos/cm 0.210 0.467 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:
 01/15/26 12:53

Physical Parameters by APHA/ASTM/EPA Methods, 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 BJA0097 - General Preparation

LCS (BJA0097-BS1)

Prepared: 01/13/26 Analyzed: 01/14/26

pH	9.11		pH Units	9.18		99.3	95-105			
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Duplicate (BJA0097-DUP1)

Source: 2601010-01

Prepared: 01/13/26 Analyzed: 01/14/26

pH	8.88		pH Units	8.89				0.104	20	
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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:
01/15/26 12:53

Notes and Definitions

- R-06 The reporting limit for this sample has been raised due to the presence of high levels of target analytes.
- 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.
- QM-01 The spike recovery for this QC sample is outside of established control limits due to sample 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