

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 17, 2025

Will Blust

Quandary Consultants

4480 Garfield St

Denver, CO 80237

RE: Fabrizio 33-14

Work Order #2511022

Enclosed are the results of analyses for samples received by Summit Scientific on 11/13/25 16:51. 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: Fabrizius 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
11/17/25 12:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB01@0.5'	2511022-01	Soil	11/13/25 13:00	11/13/25 16:51

Summit Scientific

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SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2511022	

		Send Data To:	Send Invoice To:
Client: <u>Quandary Consultants</u>	Project Manager: <u>Will Blust</u>	Company: <u>Quandary Consultants</u>	
Address: <u>4480 Barfield St.</u>	E-Mail: <u>wblust@quandaryconsultants.com</u>	Project Name/Location: <u>Fabrizius 33-14</u>	
City/State/Zip: <u>Denver, CO 80216</u>	<u>Samples@quandaryconsultants.com</u>	AFE#:	
Phone: <u>(720) 598-8660</u>	Project Name: <u>Fabrizius 33-14</u>	PO/Billing Codes:	
Sampler Name: <u>Colleen Meighan</u>	Project Number:	Contact: <u>ecastro@quandaryconsultants.com</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Other	Analysis Requested	Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #			
1	SB01 @ 0.5'	11/13/25	13:00	3			X						X	Full Table 915-1
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														

Relinquished by: <u>Colleen Meighan</u>	Date/Time: <u>11/13/25 16:51</u>	Received by: <u>[Signature]</u>	Date/Time: <u>16:57 11/13/25</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.	
				Standard	X Field Turb.	
Temperature Upon Receipt: <u>5.0</u>	Corrected Temperature: <u>5.2</u>	IR gun #: <u>7</u>	HNO3 lot #:			

S2 Work Order# 2511022**Sample Receipt Checklist**Client: Quandary Client Project ID: Fabrizius 33-14Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____Matrix (Circle all that apply) Air Soil Water Other Temp (°C) 5.0 Corrected (°C) 5.2Thermometer 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 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, Total Residual Chlorine (TRC)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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"/>	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

Control Form # SRC-001


Custodian Printed Name11/13/25
Date/Time



Quandary Consultants
4480 Garfield St
Denver CO, 80237

Project: Fabrizio 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
11/17/25 12:39

SB01@0.5'
2511022-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

R-06

Date Sampled: **11/13/25 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	8.7	0.25	mg/kg dry	100	BIK0118	11/13/25	11/13/25	EPA 8260B	
Toluene	150	50	"	10000	"	"	11/13/25	"	
Ethylbenzene	56	0.50	"	100	"	"	11/13/25	"	
Xylenes (total)	330	150	"	10000	"	"	11/13/25	"	
1,2,4-Trimethylbenzene	170	50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	46	0.50	"	100	"	"	11/13/25	"	
Naphthalene	40	0.38	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	11000	5000	"	10000	"	"	11/13/25	"	

Date Sampled: **11/13/25 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0502	96.2 %	50-150	"	"	"	11/13/25	"	
Surrogate: Toluene-d8	0.0519	99.5 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0873	167 %	50-150	"	"	"	"	"	S-06

Extractable Petroleum Hydrocarbons by 8015

R-06

Date Sampled: **11/13/25 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	23000	1000	mg/kg dry	20	BIK0119	11/13/25	11/13/25	EPA 8015M	
C28-C36 (ORO)	14000	1000	"	"	"	"	"	"	

Date Sampled: **11/13/25 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	0.00	%	50-140	"	"	"	"	"	S-01

PAH by EPA Method 8270E SIM

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SB01@0.5'
2511022-01 (Soil)

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PAH by EPA Method 8270E SIM

Date Sampled: **11/13/25 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Acenaphthene	3.07	0.498	mg/kg dry	10	BIK0128	11/14/25	11/14/25	EPA 8270E SIM	R-01
Anthracene	2.43	0.498	"	"	"	"	"	"	R-01
Benzo (a) anthracene	ND	0.498	"	"	"	"	"	"	R-01
Benzo (a) pyrene	ND	0.498	"	"	"	"	"	"	R-01
Benzo (b) fluoranthene	0.903	0.498	"	"	"	"	"	"	R-01
Benzo (k) fluoranthene	0.895	0.498	"	"	"	"	"	"	R-01
Chrysene	4.71	0.498	"	"	"	"	"	"	R-01
Dibenz (a,h) anthracene	ND	0.498	"	"	"	"	"	"	R-01
Fluoranthene	1.18	0.498	"	"	"	"	"	"	R-01
Fluorene	14.6	0.498	"	"	"	"	"	"	R-01
Indeno (1,2,3-cd) pyrene	ND	0.498	"	"	"	"	"	"	R-01
Pyrene	2.79	0.498	"	"	"	"	"	"	R-01
1-Methylnaphthalene	86.5	4.98	"	100	"	"	11/14/25	"	R-06
2-Methylnaphthalene	134	4.98	"	"	"	"	"	"	R-06

Date Sampled: **11/13/25 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10	0.435	1000 %	40-140		"	"	11/14/25	"	S-01
Surrogate: Fluoranthene-d10	0.116	268 %	40-140		"	"	"	"	S-01

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/13/25 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	1.00	mg/L dry	1	BIK0125	11/13/25	11/14/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **11/13/25 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.23	0.200	mg/kg dry	1	BIK0124	11/13/25	11/14/25	EPA 6020B	

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Project: Fabrizio 33-14

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Project Manager: Will Blust

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SB01@0.5'
2511022-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	141	0.400	mg/kg dry	1	BIK0124	11/13/25	11/14/25	EPA 6020B	
Cadmium	1.70	0.200	"	"	"	"	"	"	"
Copper	18.4	0.400	"	"	"	"	"	"	"
Lead	10.2	0.200	"	"	"	"	"	"	"
Nickel	7.14	0.400	"	"	"	"	"	"	"
Silver	0.0243	0.0200	"	"	"	"	"	"	"
Zinc	45.7	0.400	"	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"	"

Hexavalent Chromium by HACH M8023

Date Sampled: 11/13/25 13:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIK0126	11/13/25	11/14/25	HACH M10218	

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

Date Sampled: 11/13/25 13:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	199	0.0500	mg/L dry	1	BIK0121	11/13/25	11/14/25	EPA 6020B	
Magnesium	20.3	0.0500	"	"	"	"	"	"	"
Sodium	24.5	0.0500	"	"	"	"	"	"	"

Calculated Analysis

Date Sampled: 11/13/25 13:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.442	0.00100	units	1	BIK0130	11/14/25	11/14/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 11/13/25 13:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	76.7		%	1	BIK0120	11/13/25	11/14/25	Calculation	

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SB01@0.5'
2511022-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/13/25 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	1.31	0.0100	mmhos/cm	1	BIK0123	11/13/25	11/14/25	EPA 120.1	

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

Date Sampled: **11/13/25 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.30		pH Units	1	BIK0122	11/13/25	11/14/25	EPA 9045D	

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Project: Fabrizio 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
11/17/25 12:39

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BIK0118 - EPA 5030 Soil MS

Blank (BIK0118-BLK1)

Prepared & Analyzed: 11/13/25

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>	0.0429		"	0.0405		106	50-150			
<i>Surrogate: Toluene-d8</i>	0.0399		"	0.0405		98.5	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0418		"	0.0405		103	50-150			

LCS (BIK0118-BS1)

Prepared & Analyzed: 11/13/25

Benzene	0.102	0.0025	mg/kg wet	0.101		101	70-130			
Toluene	0.0995	0.0050	"	0.101		98.7	70-130			
Ethylbenzene	0.101	0.0050	"	0.101		100	70-130			
m,p-Xylene	0.199	0.010	"	0.202		98.8	70-130			
o-Xylene	0.100	0.0050	"	0.101		99.4	70-130			
1,2,4-Trimethylbenzene	0.104	0.0050	"	0.101		103	70-130			
1,3,5-Trimethylbenzene	0.104	0.0050	"	0.101		103	70-130			
Naphthalene	0.0988	0.0038	"	0.101		98.0	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0458		"	0.0403		113	50-150			
<i>Surrogate: Toluene-d8</i>	0.0410		"	0.0403		102	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0404		"	0.0403		100	50-150			

Matrix Spike (BIK0118-MS1)

Source: 2511020-01

Prepared & Analyzed: 11/13/25

Benzene	0.112	0.0025	mg/kg dry	0.117	ND	96.0	70-130			
Toluene	0.111	0.0050	"	0.117	ND	95.1	70-130			
Ethylbenzene	0.112	0.0050	"	0.117	ND	96.4	70-130			
m,p-Xylene	0.216	0.010	"	0.233	ND	92.9	70-130			
o-Xylene	0.108	0.0050	"	0.117	ND	92.5	70-130			
1,2,4-Trimethylbenzene	0.110	0.0050	"	0.117	0.00380	91.4	70-130			
1,3,5-Trimethylbenzene	0.106	0.0050	"	0.117	ND	90.9	70-130			
Naphthalene	0.115	0.0038	"	0.117	0.0209	81.1	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0461		"	0.0466		98.8	50-150			
<i>Surrogate: Toluene-d8</i>	0.0469		"	0.0466		101	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0452		"	0.0466		96.9	50-150			

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Project: Fabrizio 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
11/17/25 12:39

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 BIK0118 - EPA 5030 Soil MS

Matrix Spike Dup (BIK0118-MSD1)

Source: 2511020-01

Prepared & Analyzed: 11/13/25

Benzene	0.112	0.0025	mg/kg dry	0.114	ND	98.6	70-130	0.546	30	
Toluene	0.110	0.0050	"	0.114	ND	96.9	70-130	0.354	30	
Ethylbenzene	0.115	0.0050	"	0.114	ND	101	70-130	2.07	30	
m,p-Xylene	0.225	0.010	"	0.228	ND	98.7	70-130	3.85	30	
o-Xylene	0.112	0.0050	"	0.114	ND	97.8	70-130	3.45	30	
1,2,4-Trimethylbenzene	0.114	0.0050	"	0.114	0.00380	96.4	70-130	3.05	30	
1,3,5-Trimethylbenzene	0.111	0.0050	"	0.114	ND	97.4	70-130	4.65	30	
Naphthalene	0.113	0.0038	"	0.114	0.0209	80.5	70-130	2.41	30	
Surrogate: 1,2-Dichloroethane-d4	0.0470		"	0.0456		103	50-150			
Surrogate: Toluene-d8	0.0459		"	0.0456		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0452		"	0.0456		99.2	50-150			

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Project: Fabrizio 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
11/17/25 12:39

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 BIK0119 - EPA 3550A

Blank (BIK0119-BLK1)

Prepared & Analyzed: 11/13/25

C10-C28 (DRO)	ND	50	mg/kg wet							
C28-C36 (ORO)	ND	50	"							
Surrogate: <i>o</i> -Terphenyl	26.8		"	25.4		105	50-140			

LCS (BIK0119-BS1)

Prepared & Analyzed: 11/13/25

C10-C28 (DRO)	464	50	mg/kg wet	497		93.4	50-140			
C28-C36 (ORO)	425	50	"	497		85.5	0-200			
Surrogate: <i>o</i> -Terphenyl	25.1		"	24.9		101	50-140			

Matrix Spike (BIK0119-MS1)

Source: 2511021-01

Prepared & Analyzed: 11/13/25

C10-C28 (DRO)	450	50	mg/kg dry	555	8.86	79.4	50-140			
C28-C36 (ORO)	474	50	"	555	22.6	81.4	0-200			
Surrogate: <i>o</i> -Terphenyl	26.5		"	27.7		95.7	50-140			

Matrix Spike Dup (BIK0119-MSD1)

Source: 2511021-01

Prepared & Analyzed: 11/13/25

C10-C28 (DRO)	491	50	mg/kg dry	547	8.86	88.2	50-140	8.86	20	
C28-C36 (ORO)	513	50	"	547	22.6	89.7	0-200	7.89	200	
Surrogate: <i>o</i> -Terphenyl	26.1		"	27.4		95.4	50-140			

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Project: Fabrizio 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
11/17/25 12:39

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 BIK0128 - EPA 3550A

Blank (BIK0128-BLK1)

Prepared & Analyzed: 11/14/25

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	0.0217		"	0.0332		65.2	40-140			
Surrogate: Fluoranthene-d10	0.0196		"	0.0332		58.8	40-140			

LCS (BIK0128-BS1)

Prepared & Analyzed: 11/14/25

Acenaphthene	0.0203	0.00500	mg/kg wet	0.0331		61.1	40-140			
Anthracene	0.0200	0.00500	"	0.0331		60.4	40-140			
Benzo (a) anthracene	0.0193	0.00500	"	0.0331		58.3	40-140			
Benzo (a) pyrene	0.0192	0.00500	"	0.0331		57.9	40-140			
Benzo (b) fluoranthene	0.0202	0.00500	"	0.0331		61.1	40-140			
Benzo (k) fluoranthene	0.0202	0.00500	"	0.0331		61.0	40-140			
Chrysene	0.0190	0.00500	"	0.0331		57.3	40-140			
Dibenz (a,h) anthracene	0.0187	0.00500	"	0.0331		56.3	40-140			
Fluoranthene	0.0196	0.00500	"	0.0331		59.2	40-140			
Fluorene	0.0206	0.00500	"	0.0331		62.2	40-140			
Indeno (1,2,3-cd) pyrene	0.0192	0.00500	"	0.0331		58.0	40-140			
Pyrene	0.0190	0.00500	"	0.0331		57.4	40-140			
1-Methylnaphthalene	0.0211	0.00500	"	0.0331		63.5	40-140			
2-Methylnaphthalene	0.0210	0.00500	"	0.0331		63.5	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0210		"	0.0331		63.5	40-140			
Surrogate: Fluoranthene-d10	0.0195		"	0.0331		58.9	40-140			

Summit Scientific

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Quandary Consultants
4480 Garfield St
Denver CO, 80237

Project: Fabrizio 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
11/17/25 12:39

PAH by EPA Method 8270E SIM - Quality Control

Summit Scientific

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

Batch BIK0128 - EPA 3550A

Matrix Spike (BIK0128-MSI)

Source: 2511021-01

Prepared & Analyzed: 11/14/25

Acenaphthene	0.0222	0.00500	mg/kg dry	0.0363	ND	61.1	40-140		
Anthracene	0.0218	0.00500	"	0.0363	ND	60.0	40-140		
Benzo (a) anthracene	0.0213	0.00500	"	0.0363	ND	58.5	40-140		
Benzo (a) pyrene	0.0207	0.00500	"	0.0363	ND	57.0	40-140		
Benzo (b) fluoranthene	0.0220	0.00500	"	0.0363	ND	60.6	40-140		
Benzo (k) fluoranthene	0.0218	0.00500	"	0.0363	ND	59.9	40-140		
Chrysene	0.0210	0.00500	"	0.0363	ND	57.7	40-140		
Dibenz (a,h) anthracene	0.0201	0.00500	"	0.0363	ND	55.3	40-140		
Fluoranthene	0.0215	0.00500	"	0.0363	ND	59.2	40-140		
Fluorene	0.0225	0.00500	"	0.0363	ND	61.9	40-140		
Indeno (1,2,3-cd) pyrene	0.0202	0.00500	"	0.0363	ND	55.5	40-140		
Pyrene	0.0210	0.00500	"	0.0363	ND	57.7	40-140		
1-Methylnaphthalene	0.0230	0.00500	"	0.0363	ND	63.4	40-140		
2-Methylnaphthalene	0.0229	0.00500	"	0.0363	ND	63.1	40-140		
Surrogate: 2-Methylnaphthalene-d10	0.0230		"	0.0363		63.2	40-140		
Surrogate: Fluoranthene-d10	0.0212		"	0.0363		58.5	40-140		

Matrix Spike Dup (BIK0128-MSD1)

Source: 2511021-01

Prepared & Analyzed: 11/14/25

Acenaphthene	0.0212	0.00500	mg/kg dry	0.0366	ND	57.9	40-140	4.60	30
Anthracene	0.0211	0.00500	"	0.0366	ND	57.5	40-140	3.30	30
Benzo (a) anthracene	0.0204	0.00500	"	0.0366	ND	55.8	40-140	3.91	30
Benzo (a) pyrene	0.0199	0.00500	"	0.0366	ND	54.5	40-140	3.69	30
Benzo (b) fluoranthene	0.0217	0.00500	"	0.0366	ND	59.4	40-140	1.23	30
Benzo (k) fluoranthene	0.0216	0.00500	"	0.0366	ND	58.9	40-140	0.987	30
Chrysene	0.0201	0.00500	"	0.0366	ND	54.9	40-140	4.15	30
Dibenz (a,h) anthracene	0.0180	0.00500	"	0.0366	ND	49.1	40-140	10.9	30
Fluoranthene	0.0205	0.00500	"	0.0366	ND	55.9	40-140	4.97	30
Fluorene	0.0216	0.00500	"	0.0366	ND	58.9	40-140	4.22	30
Indeno (1,2,3-cd) pyrene	0.0176	0.00500	"	0.0366	ND	48.1	40-140	13.5	30
Pyrene	0.0199	0.00500	"	0.0366	ND	54.2	40-140	5.39	30
1-Methylnaphthalene	0.0221	0.00500	"	0.0366	ND	60.3	40-140	4.21	30
2-Methylnaphthalene	0.0222	0.00500	"	0.0366	ND	60.5	40-140	3.43	30
Surrogate: 2-Methylnaphthalene-d10	0.0221		"	0.0366		60.4	40-140		
Surrogate: Fluoranthene-d10	0.0204		"	0.0366		55.7	40-140		

Summit Scientific

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Quandary Consultants
4480 Garfield St
Denver CO, 80237

Project: Fabrizio 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
11/17/25 12:39

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	Limit	Notes
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Batch BIK0125 - EPA 3050B

Blank (BIK0125-BLK1)

Prepared: 11/13/25 Analyzed: 11/14/25

Boron ND 1.00 mg/L wet

LCS (BIK0125-BS1)

Prepared: 11/13/25 Analyzed: 11/14/25

Boron 4.80 1.00 mg/L wet 4.98 96.4 80-120

Duplicate (BIK0125-DUP1)

Source: 2511020-01

Prepared: 11/13/25 Analyzed: 11/14/25

Boron 0.168 1.00 mg/L dry 0.173 2.96 20

Matrix Spike (BIK0125-MS1)

Source: 2511020-01

Prepared: 11/13/25 Analyzed: 11/14/25

Boron 4.88 1.00 mg/L dry 5.76 0.173 81.8 75-125

Matrix Spike Dup (BIK0125-MSD1)

Source: 2511020-01

Prepared: 11/13/25 Analyzed: 11/14/25

Boron 4.84 1.00 mg/L dry 5.75 0.173 81.1 75-125 0.960 25

Summit Scientific

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Quandary Consultants
4480 Garfield St
Denver CO, 80237

Project: Fabrizio 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
11/17/25 12:39

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 BIK0124 - EPA 3050B

Blank (BIK0124-BLK1)

Prepared: 11/13/25 Analyzed: 11/14/25

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 (BIK0124-BS1)

Prepared: 11/13/25 Analyzed: 11/14/25

Arsenic	41.6	0.200	mg/kg wet	41.0	101	80-120
Barium	40.4	0.400	"	41.0	98.5	80-120
Cadmium	1.99	0.200	"	2.05	97.2	80-120
Copper	42.8	0.400	"	41.0	104	80-120
Lead	19.6	0.200	"	20.5	95.5	80-120
Nickel	41.8	0.400	"	41.0	102	80-120
Silver	2.00	0.0200	"	2.05	97.7	80-120
Zinc	42.1	0.400	"	41.0	103	80-120
Selenium	4.10	0.260	"	4.10	100	80-120

Duplicate (BIK0124-DUP1)

Source: 2511020-01

Prepared: 11/13/25 Analyzed: 11/14/25

Arsenic	1.04	0.200	mg/kg dry	1.21	15.3	20
Barium	17.2	0.400	"	16.6	3.52	20
Cadmium	0.116	0.200	"	0.122	5.00	20
Copper	3.00	0.400	"	2.85	5.03	20
Lead	3.85	0.200	"	3.84	0.315	20
Nickel	1.91	0.400	"	2.20	14.1	20
Silver	0.0401	0.0200	"	0.0362	10.3	20
Zinc	14.9	0.400	"	15.0	0.760	20
Selenium	ND	0.260	"	ND		20

Summit Scientific

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Quandary Consultants
4480 Garfield St
Denver CO, 80237

Project: Fabrizio 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
11/17/25 12:39

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BIK0124 - EPA 3050B

Matrix Spike (BIK0124-MS1)

Source: 2511020-01

Prepared: 11/13/25 Analyzed: 11/14/25

Arsenic	47.3	0.200	mg/kg dry	46.1	1.21	99.8	75-125		
Barium	62.4	0.400	"	46.1	16.6	99.1	75-125		
Cadmium	2.32	0.200	"	2.31	0.122	95.2	75-125		
Copper	49.2	0.400	"	46.1	2.85	101	75-125		
Lead	26.1	0.200	"	23.1	3.84	96.4	75-125		
Nickel	48.7	0.400	"	46.1	2.20	101	75-125		
Silver	2.20	0.0200	"	2.31	0.0362	93.6	75-125		
Zinc	62.2	0.400	"	46.1	15.0	102	75-125		
Selenium	4.38	0.260	"	4.61	ND	95.0	75-125		

Matrix Spike Dup (BIK0124-MSD1)

Source: 2511020-01

Prepared: 11/13/25 Analyzed: 11/14/25

Arsenic	46.4	0.200	mg/kg dry	45.1	1.21	100	75-125	1.90	25
Barium	58.5	0.400	"	45.1	16.6	92.9	75-125	6.38	25
Cadmium	2.25	0.200	"	2.25	0.122	94.4	75-125	2.99	25
Copper	48.0	0.400	"	45.1	2.85	100	75-125	2.58	25
Lead	24.8	0.200	"	22.5	3.84	93.2	75-125	4.90	25
Nickel	47.1	0.400	"	45.1	2.20	99.6	75-125	3.30	25
Silver	2.15	0.0200	"	2.25	0.0362	94.0	75-125	1.97	25
Zinc	59.6	0.400	"	45.1	15.0	99.1	75-125	4.16	25
Selenium	4.24	0.260	"	4.51	ND	94.1	75-125	3.23	25

Summit Scientific

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Quandary Consultants
 4480 Garfield St
 Denver CO, 80237

Project: Fabrizio 33-14

Project Number: [none]
 Project Manager: Will Blust

Reported:
 11/17/25 12:39

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 BIK0126 - 3060A_Mod

Blank (BIK0126-BLK1)		Prepared: 11/13/25 Analyzed: 11/14/25								
Chromium, Hexavalent	ND	0.30	mg/kg wet							
LCS (BIK0126-BS1)		Prepared: 11/13/25 Analyzed: 11/14/25								
Chromium, Hexavalent	27.3	0.30	mg/kg wet	25.3		108	80-120			
Duplicate (BIK0126-DUP1)		Source: 2511020-01 Prepared: 11/13/25 Analyzed: 11/14/25								
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
Matrix Spike (BIK0126-MS1)		Source: 2511020-01 Prepared: 11/13/25 Analyzed: 11/14/25								
Chromium, Hexavalent	26.3	0.30	mg/kg dry	30.0	ND	87.6	75-125			
Matrix Spike Dup (BIK0126-MSD1)		Source: 2511020-01 Prepared: 11/13/25 Analyzed: 11/14/25								
Chromium, Hexavalent	32.1	0.30	mg/kg dry	28.8	ND	111	75-125	19.7	20	

Summit Scientific

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Quandary Consultants
 4480 Garfield St
 Denver CO, 80237

Project: Fabrizio 33-14

Project Number: [none]
 Project Manager: Will Blust

Reported:
 11/17/25 12:39

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 BIK0121 - General Preparation

Blank (BIK0121-BLK1)

Prepared: 11/13/25 Analyzed: 11/14/25

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

LCS (BIK0121-BS1)

Prepared: 11/13/25 Analyzed: 11/14/25

Calcium	5.28	0.0500	mg/L wet	5.00		106	70-130			
Magnesium	4.80	0.0500	"	5.00		96.0	70-130			
Sodium	4.85	0.0500	"	5.00		97.0	70-130			

Summit Scientific

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Quandary Consultants
 4480 Garfield St
 Denver CO, 80237

Project: Fabrizio 33-14

Project Number: [none]
 Project Manager: Will Blust

Reported:
 11/17/25 12:39

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 BIK0120 - General Preparation

Duplicate (BIK0120-DUP1)	Source: 2511020-01	Prepared: 11/13/25	Analyzed: 11/14/25
% Solids	79.7	%	86.7
			8.39
			20

Summit Scientific

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Quandary Consultants
 4480 Garfield St
 Denver CO, 80237

Project: Fabrizio 33-14

Project Number: [none]
 Project Manager: Will Blust

Reported:
 11/17/25 12:39

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 BIK0123 - General Preparation

Blank (BIK0123-BLK1)

Prepared: 11/13/25 Analyzed: 11/14/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BIK0123-BS1)

Prepared: 11/13/25 Analyzed: 11/14/25

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 101 95-105

Duplicate (BIK0123-DUP1)

Source: 2511020-01

Prepared: 11/13/25 Analyzed: 11/14/25

Specific Conductance (EC) 0.579 0.0100 mmhos/cm 0.588 1.51 20

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Quandary Consultants
 4480 Garfield St
 Denver CO, 80237

Project: Fabrizio 33-14

Project Number: [none]
 Project Manager: Will Blust

Reported:
 11/17/25 12:39

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 BIK0122 - General Preparation

LCS (BIK0122-BS1)

Prepared: 11/13/25 Analyzed: 11/14/25

pH	9.22		pH Units	9.18		100	95-105			
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Duplicate (BIK0122-DUP1)

Source: 2511020-01

Prepared: 11/13/25 Analyzed: 11/14/25

pH	8.42		pH Units		8.43			0.154	20	
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Summit Scientific

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Quandary Consultants
4480 Garfield St
Denver CO, 80237

Project: Fabrizio 33-14

Project Number: [none]
Project Manager: Will Blust

Reported:
11/17/25 12:39

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference.
- S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
- R-06 The reporting limit for this sample has been raised due to the presence of high levels of target analytes.
- R-01 The reporting limit for this analyte has been raised to account for matrix interference.
- 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