

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 06, 2024

Jacob Whritenour
Tasman Geosciences
6855 W. 119th Ave.
Broomfield, CO 80020
RE: Noble - Frico 20-15
Work Order #2408364

Enclosed are the results of analyses for samples received by Summit Scientific on 08/28/24 17:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Natalie Tessier". The signature is written in a cursive, flowing style.

Natalie Tessier For Paul Shrewsbury
President



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

Project: Noble - Frico 20-15

Project Number: UWRWE-A3591-ABN

Project Manager: Jacob Whritenour

Reported:
09/06/24 08:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01@3'	2408364-01	Soil	08/28/24 13:40	08/28/24 17:40
BKG01@4'	2408364-02	Soil	08/28/24 13:45	08/28/24 17:40
BKG01@5'	2408364-03	Soil	08/28/24 13:50	08/28/24 17:40

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

Lab ID	Page 1 of 1
2408364	

Client: Noble Noble / Tasman		Send Data To: Project Manager: Jake Whritenour		Send Invoice To: Company: Chevron	
Address: 6855 W 119th Ave		E-Mail: Jwhritenour@tasman-geo.com		Project Name/Location: Frico 20-15	
City/State/Zip: Broomfield / CO / 80220		Project Name: Frico 20-15		AFE#: UWRWE - A3591-ABN	
Phone:		Project Number:		PO/Billing Codes:	
Sampler Name: Jordan Hestmark				Contact: Wade Firestien	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested							Special Instructions			
					HCl	HNO3	None	Other	Water	Soil			BTEXN - 8260B	TPH - (C6 - C36)	1,2,4 & 1,3,5 - TMB	Boron - HWS	pH, EC, SAR	PAHs - 915	Metals - 915		TDS, SO4, Cl	Hold	
1	BK601 @ 3'	8/28/24	1340	2			X			X							X	X		X			
2	BK601 @ 4'		1345																				
3	BK601 @ 5'		1350																				
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							
13																							
14																							
15																							

Relinquished by: Jordan Hestmark	Date/Time: 8/28/24 1500	Received by: Tasman Lockbox	Date/Time: 8/28/24 1500	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: Tasman Lockbox	Date/Time: 8/28/24 1740	Received by: [Signature]	Date/Time: 8/28/24 1740	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: 7.4	Corrected Temperature: 8	IR gun #: 1	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2408304

Client: Niobit Casman Client Project ID: FRCC 20-19

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C)

Thermometer #

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

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

AS
Custodian Printed Name

8/28/24
Date/Time



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

Project: Noble - Frico 20-15
Project Number: UWRWE-A3591-ABN
Project Manager: Jacob Whritenour

Reported:
09/06/24 08:52

BKG01@3'
2408364-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/28/24 13:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHH0903	08/29/24	08/30/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/28/24 13:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.79	0.200	mg/kg dry	1	BHH0921	08/29/24	09/03/24	EPA 6020B	
Barium	63.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.78	0.400	"	"	"	"	"	"	
Lead	5.02	0.200	"	"	"	"	"	"	
Nickel	5.39	0.400	"	"	"	"	"	"	
Silver	0.0278	0.0200	"	"	"	"	"	"	
Zinc	24.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/28/24 13:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0910	08/29/24	08/29/24	EPA 7196A	

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

Date Sampled: **08/28/24 13:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	92.9	0.0500	mg/L dry	1	BHH0989	08/31/24	09/05/24	EPA 6020B	
Magnesium	32.5	0.0500	"	"	"	"	"	"	
Sodium	408	0.0500	"	"	"	"	"	"	

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09/06/24 08:52

BKG01@3'
2408364-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **08/28/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.28	0.00100	units	1	BHI0161	09/06/24	09/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/28/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.9		%	1	BHH0891	08/29/24	08/29/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/28/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.98	0.0100	mmhos/cm	1	BHH0991	08/31/24	09/03/24	EPA 120.1	

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

Date Sampled: **08/28/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.74		pH Units	1	BHH0992	08/31/24	09/03/24	EPA 9045D	

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Reported:
09/06/24 08:52

BKG01@4'
2408364-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/28/24 13:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHH0903	08/29/24	08/30/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/28/24 13:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.79	0.200	mg/kg dry	1	BHH0921	08/29/24	09/03/24	EPA 6020B	
Barium	67.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.71	0.400	"	"	"	"	"	"	
Lead	5.05	0.200	"	"	"	"	"	"	
Nickel	5.60	0.400	"	"	"	"	"	"	
Silver	0.0244	0.0200	"	"	"	"	"	"	
Zinc	21.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/28/24 13:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0910	08/29/24	08/29/24	EPA 7196A	

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

Date Sampled: **08/28/24 13:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	74.6	0.0500	mg/L dry	1	BHH0989	08/31/24	09/05/24	EPA 6020B	
Magnesium	30.5	0.0500	"	"	"	"	"	"	
Sodium	562	0.0500	"	"	"	"	"	"	

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Reported:
09/06/24 08:52

BKG01@4'
2408364-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **08/28/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	13.8	0.00100	units	1	BHI0161	09/06/24	09/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/28/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.3		%	1	BHH0891	08/29/24	08/29/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/28/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.50	0.0100	mmhos/cm	1	BHH0991	08/31/24	09/03/24	EPA 120.1	

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

Date Sampled: **08/28/24 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.92		pH Units	1	BHH0992	08/31/24	09/03/24	EPA 9045D	

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Reported:
09/06/24 08:52

BKG01@5'
2408364-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/28/24 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHH0903	08/29/24	08/30/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/28/24 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	5.04	0.200	mg/kg dry	1	BHH0921	08/29/24	09/03/24	EPA 6020B	
Barium	159	0.400	"	"	"	"	"	"	
Cadmium	0.269	0.200	"	"	"	"	"	"	
Copper	12.3	0.400	"	"	"	"	"	"	
Lead	10.7	0.200	"	"	"	"	"	"	
Nickel	13.8	0.400	"	"	"	"	"	"	
Silver	0.0555	0.0200	"	"	"	"	"	"	
Zinc	37.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/28/24 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0910	08/29/24	08/29/24	EPA 7196A	

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

Date Sampled: **08/28/24 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	72.9	0.0500	mg/L dry	1	BHH0989	08/31/24	09/05/24	EPA 6020B	
Magnesium	23.8	0.0500	"	"	"	"	"	"	
Sodium	323	0.0500	"	"	"	"	"	"	

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Reported:
09/06/24 08:52

BKG01@5'
2408364-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **08/28/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.40	0.00100	units	1	BHI0161	09/06/24	09/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/28/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.5		%	1	BHH0891	08/29/24	08/29/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/28/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.13	0.0100	mmhos/cm	1	BHH0991	08/31/24	09/03/24	EPA 120.1	

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

Date Sampled: **08/28/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.33		pH Units	1	BHH0992	08/31/24	09/03/24	EPA 9045D	

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Project Number: UWRWE-A3591-ABN
Project Manager: Jacob Whritenour

Reported:
09/06/24 08:52

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

Summit Scientific

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

Batch BHH0903 - EPA 3050B

Blank (BHH0903-BLK1)				Prepared: 08/29/24 Analyzed: 08/30/24							
Boron	ND	2.00	mg/L								
LCS (BHH0903-BS1)				Prepared: 08/29/24 Analyzed: 08/30/24							
Boron	4.65	2.00	mg/L	5.00	93.0	80-120					
Duplicate (BHH0903-DUP1)				Source: 2408359-01		Prepared: 08/29/24 Analyzed: 08/30/24					
Boron	0.202	2.00	mg/L		0.211			4.29	20		
Matrix Spike (BHH0903-MS1)				Source: 2408359-01		Prepared: 08/29/24 Analyzed: 08/30/24					
Boron	4.53	2.00	mg/L	5.02	0.211	86.0	75-125				
Matrix Spike Dup (BHH0903-MSD1)				Source: 2408359-01		Prepared: 08/29/24 Analyzed: 08/30/24					
Boron	4.66	2.00	mg/L	5.02	0.211	88.6	75-125	2.93	25		

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Reported:
09/06/24 08:52

Total Metals by EPA 6020B - Quality Control
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Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

Batch BHH0921 - EPA 3050B

Blank (BHH0921-BLK1)

Prepared: 08/29/24 Analyzed: 09/03/24

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 (BHH0921-BS1)

Prepared: 08/29/24 Analyzed: 09/03/24

Arsenic	39.9	0.200	mg/kg wet	40.0	99.8	80-120
Barium	37.1	0.400	"	40.0	92.8	80-120
Cadmium	1.92	0.200	"	2.00	96.1	80-120
Copper	41.1	0.400	"	40.0	103	80-120
Lead	18.6	0.200	"	20.0	93.2	80-120
Nickel	38.7	0.400	"	40.0	96.7	80-120
Silver	1.93	0.0200	"	2.00	96.4	80-120
Zinc	40.5	0.400	"	40.0	101	80-120
Selenium	3.65	0.260	"	4.00	91.2	80-120

Duplicate (BHH0921-DUP1)

Source: 2408356-01

Prepared: 08/29/24 Analyzed: 09/03/24

Arsenic	3.02	0.200	mg/kg dry	2.92	3.36	20	
Barium	57.6	0.400	"	50.0	14.1	20	
Cadmium	0.146	0.200	"	0.103	34.1	20	QR-01
Copper	3.92	0.400	"	3.44	12.9	20	
Lead	6.21	0.200	"	4.89	23.8	20	QR-02
Nickel	4.33	0.400	"	3.87	11.2	20	
Silver	0.0134	0.0200	"	0.0150	11.5	20	
Zinc	16.9	0.400	"	15.5	8.94	20	
Selenium	ND	0.260	"	ND		20	

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Project Number: UWRWE-A3591-ABN
Project Manager: Jacob Whritenour

Reported:
09/06/24 08:52

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHH0921 - EPA 3050B

Matrix Spike (BHH0921-MS1)

Source: 2408356-01

Prepared: 08/29/24 Analyzed: 09/03/24

Arsenic	38.5	0.200	mg/kg dry	38.7	2.92	91.8	75-125			
Barium	105	0.400	"	38.7	50.0	143	75-125			QM-05
Cadmium	1.84	0.200	"	1.94	0.103	89.9	75-125			
Copper	40.2	0.400	"	38.7	3.44	94.8	75-125			
Lead	25.9	0.200	"	19.4	4.89	109	75-125			
Nickel	41.5	0.400	"	38.7	3.87	97.2	75-125			
Silver	1.72	0.0200	"	1.94	0.0150	87.9	75-125			
Zinc	52.9	0.400	"	38.7	15.5	96.8	75-125			
Selenium	3.07	0.260	"	3.87	ND	79.4	75-125			

Matrix Spike Dup (BHH0921-MSD1)

Source: 2408356-01

Prepared: 08/29/24 Analyzed: 09/03/24

Arsenic	36.9	0.200	mg/kg dry	37.9	2.92	89.7	75-125	4.21	25
Barium	86.6	0.400	"	37.9	50.0	96.6	75-125	19.4	25
Cadmium	1.77	0.200	"	1.89	0.103	87.9	75-125	4.29	25
Copper	38.4	0.400	"	37.9	3.44	92.4	75-125	4.43	25
Lead	22.7	0.200	"	18.9	4.89	94.2	75-125	13.2	25
Nickel	40.1	0.400	"	37.9	3.87	95.7	75-125	3.37	25
Silver	1.65	0.0200	"	1.89	0.0150	86.3	75-125	4.07	25
Zinc	51.5	0.400	"	37.9	15.5	95.2	75-125	2.71	25
Selenium	3.05	0.260	"	3.79	ND	80.6	75-125	0.681	25

Summit Scientific

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

Project: Noble - Frico 20-15
Project Number: UWRWE-A3591-ABN
Project Manager: Jacob Whritenour

Reported:
09/06/24 08:52

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHH0910 - 3060A Mod

Blank (BHH0910-BLK1)

Prepared & Analyzed: 08/29/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHH0910-BS1)

Prepared & Analyzed: 08/29/24

Chromium, Hexavalent 23.8 0.30 mg/kg wet 25.0 95.2 80-120

Duplicate (BHH0910-DUP1)

Source: 2408356-01

Prepared & Analyzed: 08/29/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHH0910-MS1)

Source: 2408356-01

Prepared & Analyzed: 08/29/24

Chromium, Hexavalent 25.5 0.30 mg/kg dry 25.8 ND 99.0 75-125

Matrix Spike Dup (BHH0910-MSD1)

Source: 2408356-01

Prepared & Analyzed: 08/29/24

Chromium, Hexavalent 25.1 0.30 mg/kg dry 25.8 ND 97.4 75-125 1.63 20

Summit Scientific

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

Project: Noble - Frico 20-15

Project Number: UWRWE-A3591-ABN
Project Manager: Jacob Whritenour

Reported:
09/06/24 08:52

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

Summit Scientific

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

Batch BHH0989 - General Preparation

Blank (BHH0989-BLK1)

Prepared: 08/31/24 Analyzed: 09/05/24

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

LCS (BHH0989-BS1)

Prepared: 08/31/24 Analyzed: 09/05/24

Calcium	5.46	0.0500	mg/L wet	5.00	109	70-130				
Magnesium	5.21	0.0500	"	5.00	104	70-130				
Sodium	5.26	0.0500	"	5.00	105	70-130				

Summit Scientific

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Tasman Geosciences
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Broomfield CO, 80020

Project: Noble - Frico 20-15

Project Number: UWRWE-A3591-ABN

Project Manager: Jacob Whritenour

Reported:
09/06/24 08:52

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

Summit Scientific

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

Batch BHH0891 - General Preparation

Duplicate (BHH0891-DUP1)

Source: 2408331-01

Prepared & Analyzed: 08/29/24

% Solids	79.3		%		78.6			0.971		20	
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Summit Scientific

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

Project: Noble - Frico 20-15

Project Number: UWRWE-A3591-ABN
Project Manager: Jacob Whritenour

Reported:
09/06/24 08:52

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

Summit Scientific

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

Batch BHH0991 - General Preparation

Blank (BHH0991-BLK1)

Prepared: 08/31/24 Analyzed: 09/03/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHH0991-BS1)

Prepared: 08/31/24 Analyzed: 09/03/24

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BHH0991-DUP1)

Source: 2408363-01

Prepared: 08/31/24 Analyzed: 09/03/24

Specific Conductance (EC) 0.317 0.0100 mmhos/cm 0.320 0.943 20

Summit Scientific

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

Project: Noble - Frico 20-15

Project Number: UWRWE-A3591-ABN
Project Manager: Jacob Whritenour

Reported:
09/06/24 08:52

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

Summit Scientific

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

Batch BHH0992 - General Preparation

LCS (BHH0992-BS1)

Prepared: 08/31/24 Analyzed: 09/03/24

pH	9.21	pH Units	9.18	100	95-105
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Duplicate (BHH0992-DUP1)

Source: 2408363-01

Prepared: 08/31/24 Analyzed: 09/03/24

pH	8.53	pH Units	8.55	0.234	20
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Summit Scientific

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

Project: Noble - Frico 20-15

Project Number: UWRWE-A3591-ABN

Project Manager: Jacob Whritenour

Reported:
09/06/24 08:52

Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QR-01 Analyses are not controlled on RPD values from sample concentrations below the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- 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