

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

February 28, 2025

Daniel Simpson
Tasman Geosciences
6855 W. 119th Ave.
Broomfield, CO 80020
RE: Noble - UPRC 31-12H6
Work Order #2501150

Enclosed are the results of analyses for samples received by Summit Scientific on 01/13/25 17:55. 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 - UPRC 31-12H6

Project Number: UWRWE-A4263-ABN

Project Manager: Daniel Simpson

Reported:
02/28/25 09:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01@2'	2501150-01	Soil	01/13/25 10:20	01/13/25 17:55
BKG01@3'	2501150-02	Soil	01/13/25 10:23	01/13/25 17:55
BKG01@4'	2501150-03	Soil	01/13/25 10:25	01/13/25 17:55

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

Lab ID: 2501150 Page 1 of 1

		Send Data To:		Send Invoice To:	
Client: Tasman, Inc.		Project Manager: Daniel Simpson		Company: <u>Noble Energy</u>	
Address: 6855 W. 119th Ave.		E-Mail: tas-chevron-5@tasman-geo.com		Project Name/Location: <u>UPRC/ 31-12H6</u>	
City/State/Zip: Broomfield / CO/ 80020		RBUEUF27@chevron.com, <u>jason.davidson@chevron.com</u>		AFE#: <u>UWAWE-A4271-AES</u>	
Phone: <u>303 467 1228</u>		Project Name: <u>UPRC 31-12H6</u>		PO/Billing Codes:	
Sampler Name: J. Gustafson		Project Number:		Contact: <u>Mike Montoya</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested							Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Metals - 915	VOC - 915	TPH - 915	PAH - 915	SAR, EC, pH	Boron - HWS		HOLD	
1	BK601@2'	1/13/25	10 20	1			X			X						X	X			SAR, EC, pH by saturated paste	
2	BK601@3'		10 23																		
3	BK601@4'		10 25																		
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>1/13/25 1613</u>	Received by: <u>Tasman Lockbox</u>	Date/Time: <u>1/13/25 1613</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <u>Tasman Lockbox</u>	Date/Time: <u>1/13/25 1755</u>	Received by: <u>[Signature]</u>	Date/Time: <u>1/13/25 1755</u>	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: <u>4.8</u>	Corrected Temperature: <u>6</u>	IR gun #: <u>1</u>	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2501150

Client: Tasman/Novde Client Project ID: UPRC 3H-12HU

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"/>	<u>on ice</u>
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

1/13/25
Date/Time

30000 2



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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4263-ABN
Project Manager: Daniel Simpson

Reported:
02/28/25 09:33

BKG01@2'
2501150-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/13/25 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIB1124	02/20/25	02/25/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/13/25 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	5.28	0.200		mg/kg dry	1	BIA1417	01/30/25	02/01/25	EPA 6020B	
Barium	168	0.400		"	"	"	"	"	"	
Cadmium	0.343	0.200		"	"	"	"	"	"	
Copper	7.10	0.400		"	"	"	"	"	"	
Lead	9.37	0.200		"	"	"	"	"	"	
Nickel	8.28	0.400		"	"	"	"	"	"	
Silver	0.0596	0.0200		"	"	"	"	"	"	
Zinc	26.8	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/13/25 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIA1445	01/30/25	01/31/25	EPA 7196A	

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

Date Sampled: **01/13/25 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	57.7	0.0500		mg/L dry	1	BIB0150	02/05/25	02/08/25	EPA 6020B	
Magnesium	8.74	0.0500		"	"	"	"	"	"	
Sodium	29.4	0.0500		"	"	"	"	"	"	

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Project Number: UWRWE-A4263-ABN
Project Manager: Daniel Simpson

Reported:
02/28/25 09:33

BKG01@2'
2501150-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/13/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.953	0.00100	units	1	BIB0462	02/10/25	02/10/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/13/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.5		%	1	BIA1427	01/30/25	01/30/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/13/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.423	0.0100	mmhos/cm	1	BIB0145	02/05/25	02/06/25	EPA 120.1	

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

Date Sampled: **01/13/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.97		pH Units	1	BIB0137	02/05/25	02/06/25	EPA 9045D	

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Broomfield CO, 80020

Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4263-ABN
Project Manager: Daniel Simpson

Reported:
02/28/25 09:33

BKG01@3'
2501150-02 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/13/25 10:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIB1124	02/20/25	02/25/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/13/25 10:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	5.34	0.200		mg/kg dry	1	BIA1417	01/30/25	02/01/25	EPA 6020B	
Barium	201	0.400		"	"	"	"	"	"	
Cadmium	0.359	0.200		"	"	"	"	"	"	
Copper	6.65	0.400		"	"	"	"	"	"	
Lead	9.16	0.200		"	"	"	"	"	"	
Nickel	8.05	0.400		"	"	"	"	"	"	
Silver	0.0536	0.0200		"	"	"	"	"	"	
Zinc	26.0	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/13/25 10:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIA1445	01/30/25	01/31/25	EPA 7196A	

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

Date Sampled: **01/13/25 10:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	85.7	0.0500		mg/L dry	1	BIB0150	02/05/25	02/08/25	EPA 6020B	
Magnesium	15.9	0.0500		"	"	"	"	"	"	
Sodium	25.0	0.0500		"	"	"	"	"	"	

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Reported:
02/28/25 09:33

BKG01@3'
2501150-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/13/25 10:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.651	0.00100	units	1	BIB0462	02/10/25	02/10/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/13/25 10:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.9		%	1	BIA1427	01/30/25	01/30/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/13/25 10:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.588	0.0100	mmhos/cm	1	BIB0145	02/05/25	02/06/25	EPA 120.1	

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

Date Sampled: **01/13/25 10:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.63		pH Units	1	BIB0137	02/05/25	02/06/25	EPA 9045D	

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Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4263-ABN
Project Manager: Daniel Simpson

Reported:
02/28/25 09:33

BKG01@4'
2501150-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/13/25 10:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIB1124	02/20/25	02/25/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/13/25 10:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.97	0.200	mg/kg dry	1	BIA1417	01/30/25	02/01/25	EPA 6020B	
Barium	189	0.400	"	"	"	"	"	"	
Cadmium	0.340	0.200	"	"	"	"	"	"	
Copper	6.74	0.400	"	"	"	"	"	"	
Lead	9.55	0.200	"	"	"	"	"	"	
Nickel	8.14	0.400	"	"	"	"	"	"	
Silver	0.0624	0.0200	"	"	"	"	"	"	
Zinc	26.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/13/25 10:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA1445	01/30/25	01/31/25	EPA 7196A	

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

Date Sampled: **01/13/25 10:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	67.0	0.0500	mg/L dry	1	BIB0150	02/05/25	02/08/25	EPA 6020B	
Magnesium	16.1	0.0500	"	"	"	"	"	"	
Sodium	17.5	0.0500	"	"	"	"	"	"	

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Project Number: UWRWE-A4263-ABN
Project Manager: Daniel Simpson

Reported:
02/28/25 09:33

BKG01@4'
2501150-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/13/25 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.498	0.00100	units	1	BIB0462	02/10/25	02/10/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/13/25 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.0		%	1	BIA1427	01/30/25	01/30/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/13/25 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.498	0.0100	mmhos/cm	1	BIB0145	02/05/25	02/06/25	EPA 120.1	

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

Date Sampled: **01/13/25 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.01		pH Units	1	BIB0137	02/05/25	02/06/25	EPA 9045D	

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Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4263-ABN
Project Manager: Daniel Simpson

Reported:
02/28/25 09:33

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

Summit Scientific

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

Batch BIB1124 - EPA 3050B

Blank (BIB1124-BLK1)

Prepared: 02/20/25 Analyzed: 02/25/25

Boron ND 2.00 mg/L

LCS (BIB1124-BS1)

Prepared: 02/20/25 Analyzed: 02/25/25

Boron 4.57 2.00 mg/L 5.00 91.4 80-120

Duplicate (BIB1124-DUP1)

Source: 2501144-08

Prepared: 02/20/25 Analyzed: 02/25/25

Boron ND 2.00 mg/L ND 20

Matrix Spike (BIB1124-MS1)

Source: 2501144-08

Prepared: 02/20/25 Analyzed: 02/25/25

Boron 4.70 2.00 mg/L 5.00 ND 94.1 75-125

Matrix Spike Dup (BIB1124-MSD1)

Source: 2501144-08

Prepared: 02/20/25 Analyzed: 02/25/25

Boron 4.75 2.00 mg/L 5.00 ND 95.0 75-125 0.973 25

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Reported:
02/28/25 09:33

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 BIA1417 - EPA 3050B

Blank (BIA1417-BLK1)

Prepared: 01/30/25 Analyzed: 02/01/25

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 (BIA1417-BS1)

Prepared: 01/30/25 Analyzed: 02/01/25

Arsenic	37.7	0.200	mg/kg wet	41.3	91.2	80-120
Barium	37.1	0.400	"	41.3	89.7	80-120
Cadmium	1.86	0.200	"	2.07	90.0	80-120
Copper	38.2	0.400	"	41.3	92.5	80-120
Lead	18.6	0.200	"	20.7	90.1	80-120
Nickel	39.2	0.400	"	41.3	94.9	80-120
Silver	1.92	0.0200	"	2.07	92.8	80-120
Zinc	38.6	0.400	"	41.3	93.4	80-120
Selenium	3.92	0.260	"	4.13	94.9	80-120

Duplicate (BIA1417-DUP1)

Source: 2501143-01

Prepared: 01/30/25 Analyzed: 02/01/25

Arsenic	0.892	0.200	mg/kg dry	0.868	2.64	20
Barium	33.0	0.400	"	32.5	1.59	20
Cadmium	0.0750	0.200	"	0.0697	7.38	20
Copper	2.01	0.400	"	1.78	12.5	20
Lead	2.38	0.200	"	2.40	0.641	20
Nickel	1.95	0.400	"	1.72	12.9	20
Silver	0.0126	0.0200	"	0.00829	41.5	20
Zinc	8.50	0.400	"	7.93	6.88	20
Selenium	ND	0.260	"	ND		20

QR-01

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Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4263-ABN
Project Manager: Daniel Simpson

Reported:
02/28/25 09:33

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 BIA1417 - EPA 3050B

Matrix Spike (BIA1417-MS1)	Source: 2501143-01			Prepared: 01/30/25		Analyzed: 02/01/25					
Arsenic	35.5	0.200	mg/kg dry	40.5	0.868	85.5	75-125				
Barium	65.5	0.400	"	40.5	32.5	81.5	75-125				
Cadmium	1.80	0.200	"	2.03	0.0697	85.3	75-125				
Copper	30.4	0.400	"	40.5	1.78	70.7	75-125				QM-05
Lead	19.1	0.200	"	20.3	2.40	82.3	75-125				
Nickel	31.3	0.400	"	40.5	1.72	73.0	75-125				QM-05
Silver	1.68	0.0200	"	2.03	0.00829	82.7	75-125				
Zinc	37.7	0.400	"	40.5	7.93	73.5	75-125				QM-05
Selenium	3.21	0.260	"	4.05	ND	79.3	75-125				

Matrix Spike Dup (BIA1417-MSD1)	Source: 2501143-01			Prepared: 01/30/25		Analyzed: 02/01/25					
Arsenic	39.8	0.200	mg/kg dry	43.5	0.868	89.3	75-125	11.3	25		
Barium	70.3	0.400	"	43.5	32.5	86.9	75-125	7.07	25		
Cadmium	2.03	0.200	"	2.18	0.0697	90.0	75-125	12.1	25		
Copper	34.8	0.400	"	43.5	1.78	75.8	75-125	13.3	25		
Lead	21.7	0.200	"	21.8	2.40	88.5	75-125	12.8	25		
Nickel	35.7	0.400	"	43.5	1.72	78.1	75-125	13.3	25		
Silver	1.93	0.0200	"	2.18	0.00829	88.2	75-125	13.6	25		
Zinc	42.5	0.400	"	43.5	7.93	79.4	75-125	11.9	25		
Selenium	3.66	0.260	"	4.35	ND	84.0	75-125	12.9	25		

Summit Scientific

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

Project: Noble - UPRC 31-12H6
Project Number: UWRWE-A4263-ABN
Project Manager: Daniel Simpson

Reported:
02/28/25 09:33

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 BIA1445 - 3060A Mod

Blank (BIA1445-BLK1)

Prepared: 01/30/25 Analyzed: 01/31/25

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BIA1445-BS1)

Prepared: 01/30/25 Analyzed: 01/31/25

Chromium, Hexavalent 23.0 0.30 mg/kg wet 24.8 93.0 80-120

Duplicate (BIA1445-DUP1)

Source: 2501137-01

Prepared: 01/30/25 Analyzed: 01/31/25

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BIA1445-MS1)

Source: 2501137-01

Prepared: 01/30/25 Analyzed: 01/31/25

Chromium, Hexavalent 28.4 0.30 mg/kg dry 31.5 ND 90.2 75-125

Matrix Spike Dup (BIA1445-MSD1)

Source: 2501137-01

Prepared: 01/30/25 Analyzed: 01/31/25

Chromium, Hexavalent 29.0 0.30 mg/kg dry 29.9 ND 96.8 75-125 1.98 20

Summit Scientific

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

Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4263-ABN
Project Manager: Daniel Simpson

Reported:
02/28/25 09:33

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

Summit Scientific

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

Batch BIB0150 - General Preparation

Blank (BIB0150-BLK1)

Prepared: 02/05/25 Analyzed: 02/07/25

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

LCS (BIB0150-BS1)

Prepared: 02/05/25 Analyzed: 02/07/25

Calcium	5.92	0.0500	mg/L wet	5.00	118	70-130			
Magnesium	5.03	0.0500	"	5.00	101	70-130			
Sodium	5.52	0.0500	"	5.00	110	70-130			

Summit Scientific

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

Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4263-ABN

Project Manager: Daniel Simpson

Reported:
 02/28/25 09:33

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 BIA1427 - General Preparation

Duplicate (BIA1427-DUP1)

Source: 2501149-01

Prepared & Analyzed: 01/30/25

% Solids	86.9		%		86.9			0.0398	20	
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Summit Scientific

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

Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4263-ABN
Project Manager: Daniel Simpson

Reported:
02/28/25 09:33

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 BIB0145 - General Preparation

Blank (BIB0145-BLK1)

Prepared: 02/05/25 Analyzed: 02/06/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BIB0145-BS1)

Prepared: 02/05/25 Analyzed: 02/06/25

Specific Conductance (EC) 1.38 0.0100 mmhos/cm 1.41 97.9 95-105

Duplicate (BIB0145-DUP1)

Source: 2501141-50

Prepared: 02/05/25 Analyzed: 02/06/25

Specific Conductance (EC) 0.0600 0.0100 mmhos/cm 0.0588 1.87 20

Summit Scientific

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

Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4263-ABN
Project Manager: Daniel Simpson

Reported:
02/28/25 09:33

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 BIB0137 - General Preparation

LCS (BIB0137-BS1)

Prepared: 02/05/25 Analyzed: 02/06/25

pH 9.22 pH Units 9.18 100 95-105

Duplicate (BIB0137-DUP1)

Source: 2501141-50

Prepared: 02/05/25 Analyzed: 02/06/25

pH 8.82 pH Units 8.90 0.962 20

Summit Scientific

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Tasman Geosciences
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Broomfield CO, 80020

Project: Noble - UPRC 31-12H6

Project Number: UWRWE-A4263-ABN
Project Manager: Daniel Simpson

Reported:
02/28/25 09:33

Notes and Definitions

- QR-01 Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference