

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 02, 2025

Daniel Simpson
Tasman Geosciences
6855 W. 119th Ave.
Broomfield, CO 80020
RE: Noble - Wolfe USX CC07-25
Work Order #2501471

Enclosed are the results of analyses for samples received by Summit Scientific on 01/30/25 18:16. 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 - Wolfe USX CC07-25

Project Number: UWRWE-A4005-ABN
Project Manager: Daniel Simpson

Reported:
04/02/25 10:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01-04@4'	2501471-01	Soil	01/30/25 14:20	01/30/25 18:16
FL01-08@4'	2501471-02	Soil	01/30/25 14:46	01/30/25 18:16

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

Lab ID	Page 1 of 1
2501471	

		Send Data To:	Send Invoice To:
Client: Tasman, Inc.	Project Manager: Daniel Simpson		Company: Noble CC7-25
Address: 6855 W. 119th Ave.	E-Mail: tas-chevron-5@tasman-geo.com		Project Name/Location: Wolfe USX CC07-25 ↑
City/State/Zip: Broomfield / CO / 80020	RBUEUF27@chevron.com / Jason.Davidson@chevron.com		AFE#: UWRWE-A4005-ABN
Phone: 303-487-0228	Project Name: Wolfe USX CC07-25 CC07-25		PO/Billing Codes:
Sampler Name: E. Card	Project Number: Wolfe USX CC7-25		Contact: Mike Montoya

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	FL01-04 @ 4'	1/30/25	1420	2			X			X			X	X	X	X	X	X		SAR, EC, pH by saturated paste
2	E.G. tile						X			X			X	X	X	X	X	X		
3	FL01-08 @ 4'	1/30/25	1446	2			X			X			X	X	X	X	X	X		
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: M. E. Card	Date/Time: 1/30/25 1730	Received by: M. E. Card	Date/Time: 1/30/25 1730	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: Tasman USX	Date/Time: 1/30/25 1200	Received by: [Signature]	Date/Time: 1/30/25 1800	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: 0.7	Corrected Temperature: 6	IR gun #: 1	HNO3 lot #:			

S₂

S2 Work Order# 2501471

Sample Receipt Checklist

Client: Tarman/Noble Client Project ID: Wolfe USX CC7-25

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

Matrix (Circle all that apply) Air/Soil/Water/Other Temp (°C) 0.7 Thermometer # 1

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.	-			<u>NOTE</u>
If custody seals are present, are they intact? ⁽¹⁾	-			
Are samples due within 48 hours?		-		
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)		-		
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	-			
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	-			
Were all samples received intact? ⁽¹⁾	✓			
Was adequate sample volume provided? ⁽¹⁾	✓			
Were samples provided in appropriate bottle ware?	✓			
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	✓			
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			✓	
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.			✓	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
Are there requested analysis that cannot be performed by S2? Note analysis in the comments column		✓		
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Control Form #: SRC-001

AS
Custodian Printed Name

1/30/25
Date/Time



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

Project: Noble - Wolfe USX CC07-25

Project Number: UWRWE-A4005-ABN
Project Manager: Daniel Simpson

Reported:
04/02/25 10:51

FL01-04@4'
2501471-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/30/25 14:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BIB0561	02/11/25	02/17/25	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **01/30/25 14:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0448	112 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0388	96.9 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0422	106 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/30/25 14:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BIB0565	02/11/25	02/14/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/30/25 14:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	11.6	93.0 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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04/02/25 10:51

FL01-04@4'
2501471-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **01/30/25 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIB0348	02/07/25	02/13/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0107	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.00742	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/30/25 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0168	50.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0173	51.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/30/25 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1655	02/28/25	03/12/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/30/25 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: UWRWE-A4005-ABN
Project Manager: Daniel Simpson

Reported:
04/02/25 10:51

FL01-04@4'
2501471-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	0.603	0.200	mg/kg dry	1	BIC0632	03/11/25	03/27/25	EPA 6020B
Barium	83.8	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.90	0.400	"	"	"	"	"	"
Lead	5.92	0.200	"	"	"	"	"	"
Nickel	1.80	0.400	"	"	"	"	"	"
Silver	0.0328	0.0200	"	"	"	"	"	"
Zinc	7.25	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/30/25 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0492	02/10/25	02/11/25	EPA 7196A	

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

Date Sampled: **01/30/25 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	186	0.0500	mg/L dry	1	BIB1158	02/20/25	02/25/25	EPA 6020B	
Magnesium	58.3	0.0500	"	"	"	"	"	"	
Sodium	196	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/30/25 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.21	0.00100	units	1	BIB1414	02/25/25	02/25/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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2501471-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/30/25 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.8		%	1	BIB0684	02/13/25	02/13/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/30/25 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.774	0.0100	mmhos/cm	1	BIB1160	02/20/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/30/25 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.53		pH Units	1	BIB1159	02/20/25	02/24/25	EPA 9045D	

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Project Number: UWRWE-A4005-ABN
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Reported:
04/02/25 10:51

FL01-08@4'
2501471-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/30/25 14:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BIB0561	02/11/25	02/17/25	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **01/30/25 14:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0461	115 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.5 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0407	102 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/30/25 14:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BIB0565	02/11/25	02/14/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/30/25 14:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	9.48	75.8 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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FL01-08@4'
2501471-02 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **01/30/25 14:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIB0348	02/07/25	02/13/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/30/25 14:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0158	47.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0163	48.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/30/25 14:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1655	02/28/25	03/12/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/30/25 14:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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FL01-08@4'
2501471-02 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	0.682	0.200	mg/kg dry	1	BIC0632	03/11/25	03/27/25	EPA 6020B
Barium	104	0.400	"	"	"	"	"	"
Cadmium	0.221	0.200	"	"	"	"	"	"
Copper	2.75	0.400	"	"	"	"	"	"
Lead	10.6	0.200	"	"	"	"	"	"
Nickel	2.20	0.400	"	"	"	"	"	"
Silver	0.0472	0.0200	"	"	"	"	"	"
Zinc	9.22	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/30/25 14:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0492	02/10/25	02/11/25	EPA 7196A	

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

Date Sampled: **01/30/25 14:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	389	0.0500	mg/L dry	1	BIB1158	02/20/25	02/25/25	EPA 6020B	
Magnesium	62.0	0.0500	"	"	"	"	"	"	
Sodium	48.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/30/25 14:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.601	0.00100	units	1	BIB1414	02/25/25	02/25/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/30/25 14:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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FL01-08@4'
2501471-02 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	87.9	%	1	BIB0684	02/13/25	02/13/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/30/25 14:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.10	0.0100	mmhos/cm	1	BIB1160	02/20/25	02/24/25	EPA 120.1	

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

Date Sampled: **01/30/25 14:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.88		pH Units	1	BIB1159	02/20/25	02/24/25	EPA 9045D	

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04/02/25 10:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BIB0561 - EPA 5030 Soil MS

Blank (BIB0561-BLK1)

Prepared: 02/11/25 Analyzed: 02/16/25

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
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>0.0447</i>		<i>"</i>	<i>0.0400</i>		<i>112</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0396</i>		<i>"</i>	<i>0.0400</i>		<i>99.1</i>	<i>50-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0414</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>				

LCS (BIB0561-BS1)

Prepared: 02/11/25 Analyzed: 02/16/25

Benzene	0.107	0.0020	mg/kg	0.100		107	70-130				
Toluene	0.106	0.0050	"	0.100		106	70-130				
Ethylbenzene	0.107	0.0050	"	0.100		107	70-130				
m,p-Xylene	0.208	0.010	"	0.200		104	70-130				
o-Xylene	0.104	0.0050	"	0.100		104	70-130				
1,2,4-Trimethylbenzene	0.104	0.0050	"	0.100		104	70-130				
1,3,5-Trimethylbenzene	0.103	0.0050	"	0.100		103	70-130				
Naphthalene	0.112	0.0038	"	0.100		112	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0458</i>		<i>"</i>	<i>0.0400</i>		<i>114</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0403</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0419</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>50-150</i>				

Matrix Spike (BIB0561-MS1)

Source: 2501465-01

Prepared: 02/11/25 Analyzed: 02/16/25

Benzene	0.109	0.0020	mg/kg	0.100	ND	109	70-130				
Toluene	0.106	0.0050	"	0.100	ND	106	70-130				
Ethylbenzene	0.104	0.0050	"	0.100	ND	104	70-130				
m,p-Xylene	0.201	0.010	"	0.200	ND	100	70-130				
o-Xylene	0.0994	0.0050	"	0.100	ND	99.4	70-130				
1,2,4-Trimethylbenzene	0.100	0.0050	"	0.100	ND	100	70-130				
1,3,5-Trimethylbenzene	0.0987	0.0050	"	0.100	ND	98.7	70-130				
Naphthalene	0.103	0.0038	"	0.100	ND	103	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0477</i>		<i>"</i>	<i>0.0400</i>		<i>119</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0409</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0414</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>				

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

Project: Noble - Wolfe USX CC07-25

Project Number: UWRWE-A4005-ABN
Project Manager: Daniel Simpson

Reported:
04/02/25 10:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BIB0561 - EPA 5030 Soil MS

Matrix Spike Dup (BIB0561-MSD1)	Source: 2501465-01			Prepared: 02/11/25 Analyzed: 02/16/25						
Benzene	0.110	0.0020	mg/kg	0.100	ND	110	70-130	0.384	30	
Toluene	0.104	0.0050	"	0.100	ND	104	70-130	1.06	30	
Ethylbenzene	0.111	0.0050	"	0.100	ND	111	70-130	6.46	30	
m,p-Xylene	0.212	0.010	"	0.200	ND	106	70-130	5.19	30	
o-Xylene	0.105	0.0050	"	0.100	ND	105	70-130	5.92	30	
1,2,4-Trimethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130	5.39	30	
1,3,5-Trimethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130	6.07	30	
Naphthalene	0.108	0.0038	"	0.100	ND	108	70-130	4.60	30	
Surrogate: 1,2-Dichloroethane-d4	0.0447		"	0.0400		112	50-150			
Surrogate: Toluene-d8	0.0397		"	0.0400		99.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0409		"	0.0400		102	50-150			

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Broomfield CO, 80020

Project: Noble - Wolfe USX CC07-25
Project Number: UWRWE-A4005-ABN
Project Manager: Daniel Simpson

Reported:
04/02/25 10:51

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BIB0565 - EPA 3550A

Blank (BIB0565-BLK1)

Prepared: 02/11/25 Analyzed: 02/13/25

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	12.7		"	12.5		101	30-150				

LCS (BIB0565-BS1)

Prepared: 02/11/25 Analyzed: 02/13/25

C10-C28 (DRO)	475	50	mg/kg	500		95.0	70-130				
Surrogate: <i>o</i> -Terphenyl	11.8		"	12.5		94.6	30-150				

Matrix Spike (BIB0565-MS1)

Source: 2501465-01

Prepared: 02/11/25 Analyzed: 02/13/25

C10-C28 (DRO)	432	50	mg/kg	500	ND	86.4	70-130				
Surrogate: <i>o</i> -Terphenyl	10.2		"	12.5		81.4	30-150				

Matrix Spike Dup (BIB0565-MSD1)

Source: 2501465-01

Prepared: 02/11/25 Analyzed: 02/13/25

C10-C28 (DRO)	419	50	mg/kg	500	ND	83.8	70-130	2.99	20		
Surrogate: <i>o</i> -Terphenyl	9.32		"	12.5		74.5	30-150				

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Project: Noble - Wolfe USX CC07-25

Project Number: UWRWE-A4005-ABN
Project Manager: Daniel Simpson

Reported:
04/02/25 10:51

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BIB0348 - EPA 5030 Soil MS

Blank (BIB0348-BLK1)

Prepared: 02/07/25 Analyzed: 02/12/25

Acenaphthene	ND	0.00500	mg/kg								
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	"								
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0187</i>		"	<i>0.0333</i>		<i>56.2</i>		<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0194</i>		"	<i>0.0333</i>		<i>58.3</i>		<i>40-140</i>			

LCS (BIB0348-BS1)

Prepared: 02/07/25 Analyzed: 02/12/25

Acenaphthene	0.0234	0.00500	mg/kg	0.0333		70.2		40-140			
Anthracene	0.0230	0.00500	"	0.0333		68.9		40-140			
Benzo (a) anthracene	0.0245	0.00500	"	0.0333		73.6		40-140			
Benzo (a) pyrene	0.0243	0.00500	"	0.0333		72.9		40-140			
Benzo (b) fluoranthene	0.0176	0.00500	"	0.0333		52.9		40-140			
Benzo (k) fluoranthene	0.0169	0.00500	"	0.0333		50.7		40-140			
Chrysene	0.0255	0.00500	"	0.0333		76.5		40-140			
Dibenz (a,h) anthracene	0.0248	0.00500	"	0.0333		74.3		40-140			
Fluoranthene	0.0235	0.00500	"	0.0333		70.4		40-140			
Fluorene	0.0233	0.00500	"	0.0333		69.9		40-140			
Indeno (1,2,3-cd) pyrene	0.0261	0.00500	"	0.0333		78.4		40-140			
Pyrene	0.0246	0.00500	"	0.0333		73.7		40-140			
1-Methylnaphthalene	0.0229	0.00500	"	0.0333		68.7		40-140			
2-Methylnaphthalene	0.0226	0.00500	"	0.0333		67.9		40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0234</i>		"	<i>0.0333</i>		<i>70.2</i>		<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0242</i>		"	<i>0.0333</i>		<i>72.5</i>		<i>40-140</i>			

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Wolfe USX CC07-25

Project Number: UWRWE-A4005-ABN
Project Manager: Daniel Simpson

Reported:
04/02/25 10:51

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BIB0348 - EPA 5030 Soil MS

Matrix Spike (BIB0348-MS1)		Source: 2501465-01			Prepared: 02/07/25		Analyzed: 02/13/25	
Acenaphthene	0.0119	0.00500	mg/kg	0.0333	ND	35.6	40-140	QM-05
Anthracene	0.0122	0.00500	"	0.0333	ND	36.6	40-140	QM-05
Benzo (a) anthracene	0.0145	0.00500	"	0.0333	ND	43.6	40-140	
Benzo (a) pyrene	0.0148	0.00500	"	0.0333	ND	44.3	40-140	
Benzo (b) fluoranthene	0.0153	0.00500	"	0.0333	ND	45.8	40-140	
Benzo (k) fluoranthene	0.0142	0.00500	"	0.0333	ND	42.5	40-140	
Chrysene	0.0147	0.00500	"	0.0333	ND	44.2	40-140	
Dibenz (a,h) anthracene	0.00890	0.00500	"	0.0333	ND	26.7	40-140	QM-05
Fluoranthene	0.0157	0.00500	"	0.0333	ND	47.0	40-140	
Fluorene	0.0124	0.00500	"	0.0333	ND	37.3	40-140	QM-05
Indeno (1,2,3-cd) pyrene	0.0120	0.00500	"	0.0333	ND	35.9	40-140	QM-05
Pyrene	0.0165	0.00500	"	0.0333	ND	49.4	40-140	
1-Methylnaphthalene	0.0123	0.00500	"	0.0333	ND	36.9	40-140	QM-05
2-Methylnaphthalene	0.0121	0.00500	"	0.0333	ND	36.3	40-140	QM-05
Surrogate: 2-Methylnaphthalene-d10	0.0116		"	0.0333		34.9	40-140	QM-05
Surrogate: Fluoranthene-d10	0.0127		"	0.0333		38.1	40-140	QM-05

Matrix Spike Dup (BIB0348-MSD1)		Source: 2501465-01			Prepared: 02/07/25		Analyzed: 02/13/25	
Acenaphthene	0.0159	0.00500	mg/kg	0.0333	ND	47.8	40-140	29.3 30
Anthracene	0.0154	0.00500	"	0.0333	ND	46.2	40-140	23.2 30
Benzo (a) anthracene	0.0196	0.00500	"	0.0333	ND	58.9	40-140	29.9 30
Benzo (a) pyrene	0.0198	0.00500	"	0.0333	ND	59.5	40-140	29.3 30
Benzo (b) fluoranthene	0.0218	0.00500	"	0.0333	ND	65.5	40-140	35.3 30
Benzo (k) fluoranthene	0.0187	0.00500	"	0.0333	ND	56.0	40-140	27.3 30
Chrysene	0.0202	0.00500	"	0.0333	ND	60.5	40-140	31.0 30
Dibenz (a,h) anthracene	0.0186	0.00500	"	0.0333	ND	55.7	40-140	70.3 30
Fluoranthene	0.0194	0.00500	"	0.0333	ND	58.2	40-140	21.3 30
Fluorene	0.0165	0.00500	"	0.0333	ND	49.5	40-140	28.2 30
Indeno (1,2,3-cd) pyrene	0.0223	0.00500	"	0.0333	ND	66.9	40-140	60.2 30
Pyrene	0.0228	0.00500	"	0.0333	ND	68.4	40-140	32.4 30
1-Methylnaphthalene	0.0162	0.00500	"	0.0333	ND	48.6	40-140	27.4 30
2-Methylnaphthalene	0.0160	0.00500	"	0.0333	ND	48.0	40-140	27.8 30
Surrogate: 2-Methylnaphthalene-d10	0.0154		"	0.0333		46.2	40-140	
Surrogate: Fluoranthene-d10	0.0161		"	0.0333		48.4	40-140	

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

Project: Noble - Wolfe USX CC07-25

Project Number: UWRWE-A4005-ABN
Project Manager: Daniel Simpson

Reported:
04/02/25 10:51

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

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

Batch BIB1655 - EPA 3050B

Blank (BIB1655-BLK1)

Prepared: 02/28/25 Analyzed: 03/12/25

Boron ND 2.00 mg/L

LCS (BIB1655-BS1)

Prepared: 02/28/25 Analyzed: 03/12/25

Boron 4.77 2.00 mg/L 5.00 95.4 80-120

Duplicate (BIB1655-DUP1)

Source: 2501470-02

Prepared: 02/28/25 Analyzed: 03/12/25

Boron 0.0490 2.00 mg/L 0.0460 6.45 20

Matrix Spike (BIB1655-MS1)

Source: 2501470-02

Prepared: 02/28/25 Analyzed: 03/12/25

Boron 4.93 2.00 mg/L 4.99 0.0460 98.0 75-125

Matrix Spike Dup (BIB1655-MSD1)

Source: 2501470-02

Prepared: 02/28/25 Analyzed: 03/12/25

Boron 5.06 2.00 mg/L 4.99 0.0460 101 75-125 2.61 25

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Broomfield CO, 80020

Project: Noble - Wolfe USX CC07-25

Project Number: UWRWE-A4005-ABN
Project Manager: Daniel Simpson

Reported:
04/02/25 10:51

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BIC0632 - EPA 3050B

Blank (BIC0632-BLK1)

Prepared: 03/11/25 Analyzed: 03/27/25

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 (BIC0632-BS1)

Prepared: 03/11/25 Analyzed: 03/27/25

Arsenic	41.4	0.200	mg/kg wet	40.7	102	80-120		
Barium	41.1	0.400	"	40.7	101	80-120		
Cadmium	2.03	0.200	"	2.03	99.8	80-120		
Copper	42.5	0.400	"	40.7	105	80-120		
Lead	20.8	0.200	"	20.3	102	80-120		
Nickel	42.6	0.400	"	40.7	105	80-120		
Silver	1.99	0.0200	"	2.03	97.9	80-120		
Zinc	40.9	0.400	"	40.7	101	80-120		
Selenium	4.43	0.260	"	4.07	109	80-120		

Duplicate (BIC0632-DUP1)

Source: 2501455-01

Prepared: 03/11/25 Analyzed: 03/26/25

Arsenic	1.15	0.200	mg/kg dry	1.15	0.0777	20		
Barium	62.8	0.400	"	67.1	6.63	20		
Cadmium	0.0869	0.200	"	0.129	39.0	20		QR-01
Copper	1.35	0.400	"	1.43	6.02	20		
Lead	4.85	0.200	"	7.55	43.6	20		QR-04
Nickel	1.60	0.400	"	1.86	14.8	20		
Silver	0.0179	0.0200	"	0.0161	10.5	20		
Zinc	5.96	0.400	"	6.97	15.7	20		
Selenium	ND	0.260	"	ND		20		

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Wolfe USX CC07-25

Project Number: UWRWE-A4005-ABN
Project Manager: Daniel Simpson

Reported:
04/02/25 10:51

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 BIC0632 - EPA 3050B

Matrix Spike (BIC0632-MS1)	Source: 2501455-01			Prepared: 03/11/25 Analyzed: 03/26/25								
Arsenic	12.5	0.200	mg/kg dry	44.1	1.15	25.8	75-125					QM-05
Barium	116	0.400	"	44.1	67.1	110	75-125					
Cadmium	2.15	0.200	"	2.21	0.129	91.7	75-125					
Copper	13.0	0.400	"	44.1	1.43	26.3	75-125					QM-05
Lead	23.7	0.200	"	22.1	7.55	73.2	75-125					QM-05
Nickel	13.3	0.400	"	44.1	1.86	25.9	75-125					QM-05
Silver	2.05	0.0200	"	2.21	0.0161	92.0	75-125					
Zinc	17.3	0.400	"	44.1	6.97	23.4	75-125					QM-05
Selenium	4.83	0.260	"	4.41	ND	109	75-125					

Matrix Spike Dup (BIC0632-MSD1)	Source: 2501455-01			Prepared: 03/11/25 Analyzed: 03/26/25								
Arsenic	14.9	0.200	mg/kg dry	47.1	1.15	29.3	75-125	17.4	25			QM-05
Barium	103	0.400	"	47.1	67.1	75.5	75-125	11.8	25			
Cadmium	2.39	0.200	"	2.35	0.129	96.2	75-125	10.6	25			
Copper	15.3	0.400	"	47.1	1.43	29.4	75-125	16.0	25			QM-05
Lead	25.7	0.200	"	23.5	7.55	77.2	75-125	8.22	25			
Nickel	15.6	0.400	"	47.1	1.86	29.3	75-125	16.3	25			QM-05
Silver	2.25	0.0200	"	2.35	0.0161	95.0	75-125	9.53	25			
Zinc	19.7	0.400	"	47.1	6.97	27.0	75-125	12.9	25			QM-05
Selenium	5.71	0.260	"	4.71	ND	121	75-125	16.8	25			

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Broomfield CO, 80020

Project: Noble - Wolfe USX CC07-25

Project Number: UWRWE-A4005-ABN
Project Manager: Daniel Simpson

Reported:
04/02/25 10:51

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BIB0492 - 3060A Mod

Blank (BIB0492-BLK1)		Prepared: 02/10/25 Analyzed: 02/11/25								
Chromium, Hexavalent	ND	0.30	mg/kg wet							
LCS (BIB0492-BS1)		Prepared: 02/10/25 Analyzed: 02/11/25								
Chromium, Hexavalent	24.4	0.30	mg/kg wet	23.8		102	80-120			
Duplicate (BIB0492-DUP1)		Source: 2501463-01		Prepared: 02/10/25 Analyzed: 02/11/25						
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
Matrix Spike (BIB0492-MS1)		Source: 2501463-01		Prepared: 02/10/25 Analyzed: 02/11/25						
Chromium, Hexavalent	29.6	0.30	mg/kg dry	29.7	ND	99.6	75-125			
Matrix Spike Dup (BIB0492-MSD1)		Source: 2501463-01		Prepared: 02/10/25 Analyzed: 02/11/25						
Chromium, Hexavalent	28.5	0.30	mg/kg dry	27.4	ND	104	75-125	3.79	20	

Summit Scientific

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

Project: Noble - Wolfe USX CC07-25

Project Number: UWRWE-A4005-ABN
Project Manager: Daniel Simpson

Reported:
04/02/25 10:51

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

Summit Scientific

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

Batch BIB1158 - General Preparation

Blank (BIB1158-BLK1)

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

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

LCS (BIB1158-BS1)

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

Calcium	4.29	0.0500	mg/L wet	5.00	85.8	70-130
Magnesium	4.75	0.0500	"	5.00	94.9	70-130
Sodium	4.75	0.0500	"	5.00	95.0	70-130

Summit Scientific

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

Project: Noble - Wolfe USX CC07-25

Project Number: UWRWE-A4005-ABN
Project Manager: Daniel Simpson

Reported:
04/02/25 10:51

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 BIB1160 - General Preparation

Blank (BIB1160-BLK1)

Prepared: 02/20/25 Analyzed: 02/24/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BIB1160-BS1)

Prepared: 02/20/25 Analyzed: 02/24/25

Specific Conductance (EC) 1.46 0.0100 mmhos/cm 1.41 103 95-105

Duplicate (BIB1160-DUP1)

Source: 2501468-01

Prepared: 02/20/25 Analyzed: 02/24/25

Specific Conductance (EC) 0.792 0.0100 mmhos/cm 0.795 0.387 20

Summit Scientific

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

Project: Noble - Wolfe USX CC07-25

Project Number: UWRWE-A4005-ABN
Project Manager: Daniel Simpson

Reported:
04/02/25 10:51

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 BIB1159 - General Preparation

LCS (BIB1159-BS1)

Prepared: 02/20/25 Analyzed: 02/24/25

pH	9.23	pH Units	9.18	101	95-105
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Duplicate (BIB1159-DUP1)

Source: 2501468-01

Prepared: 02/20/25 Analyzed: 02/24/25

pH	8.21	pH Units	8.29	0.870	20
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Summit Scientific

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

Project: Noble - Wolfe USX CC07-25

Project Number: UWRWE-A4005-ABN
Project Manager: Daniel Simpson

Reported:
04/02/25 10:51

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values. Only applies to source/DUP and MS/MSD pairs.
- 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