

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 30, 2024

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

RE: Noble - Torres USX AB 35-09

Work Order #2407304

Enclosed are the results of analyses for samples received by Summit Scientific on 07/23/24 17:47. 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 - Torres USX AB 35-09

Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01R-S@4'	2407304-01	Soil	07/23/24 13:00	07/23/24 17:47
FL01R-W@3'	2407304-02	Soil	07/23/24 12:15	07/23/24 17:47



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

Lab ID	Page 1 of 1
2407304	

Send Data To:		Send Invoice To:	
Client: Noble/Tasman	Project Manager: Jake Whritenour	Company: Chevron	
Address: 6855 W. 119th Ave.	E-Mail: Jwhritenour@tasman-geo.com	Project Name/Location: Torres USX AB35-09	
City/State/Zip: Broomfield/CO/ 80020		AFE#: UWRWE-44149-ABV	
Phone: 832-922-0152	Project Name: Torres USX AB35-09	PO/Billing Codes:	
Sampler Name: Tanner Lacy	Project Number:	Contact: Wade Firestein	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions			
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	VOC-915	TPH-915	PAH-915	pH,EC,SAR	Boron-915	Metals-915		HOLD		
1	Floor-S@4'	7/23/24	1300	1			X			X				X	X	X	X	X	X		SAR, EC, pH by saturated paste	
2	Floor-W@3'	7/23/24	1215	1			X			X				X	X	X	X	X	X			
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						

Relinquished by: <i>Tanner Lacy</i>	Date/Time: 7/23/24 1640	Received by: Tasman Lock Box	Date/Time: 7/23/24 1640	TAT Business Days	Field DO	Notes:
Relinquished by: <i>Tasman Lock Box</i>	Date/Time: 7/23/24 1747	Received by: <i>[Signature]</i>	Date/Time: 7/23/24 1747	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 9.0	Corrected Temperature: 6	IR gun #: 1	HNO3 lot #:	Standard	X Field Turb.	

S₂

Sample Receipt Checklist

S2 Work Order# 2407304

Client: Noble Gasman Client Project ID: Torres USX AB 30-09

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"/>	outside
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

7/23/24
Date/Time



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

Project: Noble - Torres USX AB 35-09

Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

FL01R-S@4'
2407304-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/23/24 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHG0749	07/25/24	07/29/24	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: **07/23/24 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0392	97.9 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0405	101 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/23/24 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHG0750	07/25/24	07/26/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **07/23/24 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.14	57.1 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PAH by EPA Method 8270D SIM

Date Sampled: **07/23/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHG0669	07/24/24	07/25/24	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: **07/23/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0133	40.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0169	50.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/23/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHG0676	07/24/24	07/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/23/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Torres USX AB 35-09

Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

FL01R-S@4'
2407304-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.38	0.200	mg/kg dry	1	BHG0683	07/24/24	07/25/24	EPA 6020B
Barium	44.9	0.400	"	"	"	"	"	"
Cadmium	0.256	0.200	"	"	"	"	"	"
Copper	5.52	0.400	"	"	"	"	"	"
Lead	6.83	0.200	"	"	"	"	"	"
Nickel	4.54	0.400	"	"	"	"	"	"
Silver	0.0272	0.0200	"	"	"	"	"	"
Zinc	25.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/23/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0688	07/24/24	07/24/24	EPA 7196A	

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

Date Sampled: **07/23/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	40.4	0.0500	mg/L dry	1	BHG0684	07/24/24	07/26/24	EPA 6020B	
Magnesium	7.44	0.0500	"	"	"	"	"	"	
Sodium	1.56	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/23/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0592	0.00100	units	1	BHG0841	07/29/24	07/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/23/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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07/30/24 09:14

FL01R-S@4'
2407304-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	79.8	%	1	BHG0678	07/24/24	07/24/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/23/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.156	0.0100	mmhos/cm	1	BHG0685	07/24/24	07/26/24	EPA 120.1	

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

Date Sampled: **07/23/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.77		pH Units	1	BHG0687	07/24/24	07/26/24	EPA 9045D	

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Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

FL01R-W@3'
2407304-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/23/24 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHG0749	07/25/24	07/29/24	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: **07/23/24 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0467	117 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0396	98.9 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0391	97.6 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/23/24 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHG0750	07/25/24	07/26/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **07/23/24 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.25	58.0 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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07/30/24 09:14

FL01R-W@3'
2407304-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **07/23/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHG0669	07/24/24	07/25/24	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	0.00564	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: **07/23/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0134	40.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0149	44.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/23/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHG0676	07/24/24	07/25/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/23/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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FL01R-W@3'
2407304-02 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.88	0.200	mg/kg dry	1	BHG0683	07/24/24	07/25/24	EPA 6020B	
Barium	44.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.30	0.400	"	"	"	"	"	"	
Lead	4.43	0.200	"	"	"	"	"	"	
Nickel	3.48	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	15.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/23/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0688	07/24/24	07/24/24	EPA 7196A	

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

Date Sampled: **07/23/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	52.8	0.0500	mg/L dry	1	BHG0684	07/24/24	07/26/24	EPA 6020B	
Magnesium	11.0	0.0500	"	"	"	"	"	"	
Sodium	19.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/23/24 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.628	0.00100	units	1	BHG0841	07/29/24	07/29/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

FL01R-W@3'
2407304-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/23/24 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	84.7			%	1	BHG0678	07/24/24	07/24/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/23/24 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.485	0.0100		mmhos/cm	1	BHG0685	07/24/24	07/26/24	EPA 120.1	

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

Date Sampled: **07/23/24 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.11			pH Units	1	BHG0687	07/24/24	07/26/24	EPA 9045D	

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Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

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 BHG0749 - EPA 5030 Soil MS

Blank (BHG0749-BLK1)

Prepared: 07/25/24 Analyzed: 07/28/24

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	"							
Surrogate: 1,2-Dichloroethane-d4	0.0429		"	0.0400		107	50-150			
Surrogate: Toluene-d8	0.0409		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0386		"	0.0400		96.5	50-150			

LCS (BHG0749-BS1)

Prepared: 07/25/24 Analyzed: 07/28/24

Benzene	0.0844	0.0020	mg/kg	0.100		84.4	70-130			
Toluene	0.100	0.0050	"	0.100		100	70-130			
Ethylbenzene	0.0910	0.0050	"	0.100		91.0	70-130			
m,p-Xylene	0.186	0.010	"	0.200		92.8	70-130			
o-Xylene	0.0955	0.0050	"	0.100		95.5	70-130			
1,2,4-Trimethylbenzene	0.0838	0.0050	"	0.100		83.8	70-130			
1,3,5-Trimethylbenzene	0.0843	0.0050	"	0.100		84.3	70-130			
Naphthalene	0.0778	0.0038	"	0.100		77.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0399		"	0.0400		99.8	50-150			
Surrogate: Toluene-d8	0.0420		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0390		"	0.0400		97.6	50-150			

Matrix Spike (BHG0749-MS1)

Source: 2407289-01

Prepared: 07/25/24 Analyzed: 07/28/24

Benzene	0.0727	0.0020	mg/kg	0.100	ND	72.7	70-130			
Toluene	0.0815	0.0050	"	0.100	ND	81.5	70-130			
Ethylbenzene	0.0680	0.0050	"	0.100	ND	68.0	70-130			QM-05
m,p-Xylene	0.135	0.010	"	0.200	ND	67.5	70-130			QM-05
o-Xylene	0.0691	0.0050	"	0.100	ND	69.1	70-130			QM-05
1,2,4-Trimethylbenzene	0.0571	0.0050	"	0.100	ND	57.1	70-130			QM-05
1,3,5-Trimethylbenzene	0.0615	0.0050	"	0.100	ND	61.5	70-130			QM-05
Naphthalene	0.0535	0.0038	"	0.100	ND	53.5	70-130			QM-05
Surrogate: 1,2-Dichloroethane-d4	0.0504		"	0.0400		126	50-150			
Surrogate: Toluene-d8	0.0429		"	0.0400		107	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		99.1	50-150			

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

Project: Noble - Torres USX AB 35-09

Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHG0749 - EPA 5030 Soil MS

Matrix Spike Dup (BHG0749-MSD1)	Source: 2407289-01			Prepared: 07/25/24 Analyzed: 07/29/24						
Benzene	0.0640	0.0020	mg/kg	0.100	ND	64.0	70-130	12.7	30	QM-05
Toluene	0.0748	0.0050	"	0.100	ND	74.8	70-130	8.56	30	
Ethylbenzene	0.0678	0.0050	"	0.100	ND	67.8	70-130	0.221	30	QM-05
m,p-Xylene	0.135	0.010	"	0.200	ND	67.4	70-130	0.0222	30	QM-05
o-Xylene	0.0674	0.0050	"	0.100	ND	67.4	70-130	2.42	30	QM-05
1,2,4-Trimethylbenzene	0.0562	0.0050	"	0.100	ND	56.2	70-130	1.54	30	QM-05
1,3,5-Trimethylbenzene	0.0610	0.0050	"	0.100	ND	61.0	70-130	0.734	30	QM-05
Naphthalene	0.0490	0.0038	"	0.100	ND	49.0	70-130	8.72	30	QM-05
Surrogate: 1,2-Dichloroethane-d4	0.0461		"	0.0400		115	50-150			
Surrogate: Toluene-d8	0.0426		"	0.0400		106	50-150			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.4	50-150			

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Broomfield CO, 80020

Project: Noble - Torres USX AB 35-09

Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

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 BHG0750 - EPA 3550A

Blank (BHG0750-BLK1)

Prepared & Analyzed: 07/25/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	11.7		"	12.5		93.4	30-150				

LCS (BHG0750-BS1)

Prepared & Analyzed: 07/25/24

C10-C28 (DRO)	584	50	mg/kg	500		117	70-130				
Surrogate: <i>o</i> -Terphenyl	13.3		"	12.5		106	30-150				

Matrix Spike (BHG0750-MS1)

Source: 2407289-01

Prepared & Analyzed: 07/25/24

C10-C28 (DRO)	468	50	mg/kg	500	21.0	89.4	70-130				
Surrogate: <i>o</i> -Terphenyl	10.2		"	12.5		81.2	30-150				

Matrix Spike Dup (BHG0750-MSD1)

Source: 2407289-01

Prepared & Analyzed: 07/25/24

C10-C28 (DRO)	496	50	mg/kg	500	21.0	95.0	70-130	5.90	20		
Surrogate: <i>o</i> -Terphenyl	12.2		"	12.5		97.7	30-150				

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Project: Noble - Torres USX AB 35-09

Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

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 BHG0669 - EPA 5030 Soil MS

Blank (BHG0669-BLK1)

Prepared & Analyzed: 07/24/24

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>0.0160</i>		<i>"</i>	<i>0.0333</i>		<i>48.0</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0195</i>		<i>"</i>	<i>0.0333</i>		<i>58.6</i>	<i>40-150</i>			

LCS (BHG0669-BS1)

Prepared & Analyzed: 07/24/24

Acenaphthene	0.0184	0.00500	mg/kg	0.0333		55.3	31-137			
Anthracene	0.0194	0.00500	"	0.0333		58.2	30-120			
Benzo (a) anthracene	0.0221	0.00500	"	0.0333		66.3	30-120			
Benzo (a) pyrene	0.0163	0.00500	"	0.0333		48.8	30-120			
Benzo (b) fluoranthene	0.0140	0.00500	"	0.0333		41.9	30-120			
Benzo (k) fluoranthene	0.0146	0.00500	"	0.0333		43.7	30-120			
Chrysene	0.0188	0.00500	"	0.0333		56.3	30-120			
Dibenz (a,h) anthracene	0.0189	0.00500	"	0.0333		56.8	30-120			
Fluoranthene	0.0196	0.00500	"	0.0333		58.9	30-120			
Fluorene	0.0194	0.00500	"	0.0333		58.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0206	0.00500	"	0.0333		61.9	30-120			
Pyrene	0.0249	0.00500	"	0.0333		74.6	35-142			
1-Methylnaphthalene	0.0183	0.00500	"	0.0333		54.9	35-142			
2-Methylnaphthalene	0.0182	0.00500	"	0.0333		54.5	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0179</i>		<i>"</i>	<i>0.0333</i>		<i>53.8</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0209</i>		<i>"</i>	<i>0.0333</i>		<i>62.6</i>	<i>40-150</i>			

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

Project: Noble - Torres USX AB 35-09
Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

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 BHG0669 - EPA 5030 Soil MS

Matrix Spike (BHG0669-MS1)	Source: 2407302-01			Prepared & Analyzed: 07/24/24								
Acenaphthene	0.0167	0.00500	mg/kg	0.0333	ND	50.1	31-137					
Anthracene	0.0197	0.00500	"	0.0333	ND	59.2	30-120					
Benzo (a) anthracene	0.0227	0.00500	"	0.0333	ND	68.2	30-120					
Benzo (a) pyrene	0.0148	0.00500	"	0.0333	ND	44.5	30-120					
Benzo (b) fluoranthene	0.0172	0.00500	"	0.0333	ND	51.5	30-120					
Benzo (k) fluoranthene	0.0166	0.00500	"	0.0333	ND	49.9	30-120					
Chrysene	0.0184	0.00500	"	0.0333	ND	55.2	30-120					
Dibenz (a,h) anthracene	0.0148	0.00500	"	0.0333	ND	44.5	30-120					
Fluoranthene	0.0202	0.00500	"	0.0333	ND	60.5	30-120					
Fluorene	0.0197	0.00500	"	0.0333	ND	59.0	30-120					
Indeno (1,2,3-cd) pyrene	0.0200	0.00500	"	0.0333	ND	60.1	30-120					
Pyrene	0.0232	0.00500	"	0.0333	ND	69.5	35-142					
1-Methylnaphthalene	0.0183	0.00500	"	0.0333	ND	54.9	15-130					
2-Methylnaphthalene	0.0194	0.00500	"	0.0333	ND	58.2	15-130					
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0160</i>		<i>"</i>	<i>0.0333</i>		<i>47.9</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0207</i>		<i>"</i>	<i>0.0333</i>		<i>62.0</i>	<i>40-150</i>					

Matrix Spike Dup (BHG0669-MSD1)	Source: 2407302-01			Prepared & Analyzed: 07/24/24								
Acenaphthene	0.0150	0.00500	mg/kg	0.0333	ND	45.0	31-137	10.7	30			
Anthracene	0.0183	0.00500	"	0.0333	ND	54.8	30-120	7.73	30			
Benzo (a) anthracene	0.0216	0.00500	"	0.0333	ND	64.7	30-120	5.25	30			
Benzo (a) pyrene	0.0134	0.00500	"	0.0333	ND	40.3	30-120	9.80	30			
Benzo (b) fluoranthene	0.0158	0.00500	"	0.0333	ND	47.4	30-120	8.12	30			
Benzo (k) fluoranthene	0.0198	0.00500	"	0.0333	ND	59.5	30-120	17.5	30			
Chrysene	0.0174	0.00500	"	0.0333	ND	52.2	30-120	5.64	30			
Dibenz (a,h) anthracene	0.0189	0.00500	"	0.0333	ND	56.6	30-120	24.1	30			
Fluoranthene	0.0190	0.00500	"	0.0333	ND	57.0	30-120	5.90	30			
Fluorene	0.0198	0.00500	"	0.0333	ND	59.3	30-120	0.482	30			
Indeno (1,2,3-cd) pyrene	0.0157	0.00500	"	0.0333	ND	47.1	30-120	24.3	30			
Pyrene	0.0190	0.00500	"	0.0333	ND	57.0	35-142	19.7	30			
1-Methylnaphthalene	0.0174	0.00500	"	0.0333	ND	52.3	15-130	4.90	50			
2-Methylnaphthalene	0.0191	0.00500	"	0.0333	ND	57.4	15-130	1.35	50			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0146</i>		<i>"</i>	<i>0.0333</i>		<i>43.8</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0192</i>		<i>"</i>	<i>0.0333</i>		<i>57.7</i>	<i>40-150</i>					

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

Project: Noble - Torres USX AB 35-09

Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

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 BHG0676 - EPA 3050B

Blank (BHG0676-BLK1)

Prepared & Analyzed: 07/24/24

Boron ND 2.00 mg/L

LCS (BHG0676-BS1)

Prepared & Analyzed: 07/24/24

Boron 5.11 2.00 mg/L 5.00 102 80-120

Duplicate (BHG0676-DUP1)

Source: 2407287-01

Prepared & Analyzed: 07/24/24

Boron 0.0501 2.00 mg/L 0.152 101 20 QR-01

Matrix Spike (BHG0676-MS1)

Source: 2407287-01

Prepared & Analyzed: 07/24/24

Boron 5.19 2.00 mg/L 5.04 0.152 100 75-125

Matrix Spike Dup (BHG0676-MSD1)

Source: 2407287-01

Prepared & Analyzed: 07/24/24

Boron 5.45 2.00 mg/L 5.04 0.152 105 75-125 4.96 25

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Broomfield CO, 80020

Project: Noble - Torres USX AB 35-09

Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHG0683 - EPA 3050B

Blank (BHG0683-BLK1)

Prepared: 07/24/24 Analyzed: 07/25/24

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 (BHG0683-BS1)

Prepared: 07/24/24 Analyzed: 07/25/24

Arsenic	38.3	0.200	mg/kg wet	36.5	105	80-120
Barium	37.4	0.400	"	36.5	102	80-120
Cadmium	1.75	0.200	"	1.82	95.7	80-120
Copper	37.0	0.400	"	36.5	101	80-120
Lead	17.6	0.200	"	18.2	96.4	80-120
Nickel	36.5	0.400	"	36.5	99.9	80-120
Silver	1.75	0.0200	"	1.82	95.9	80-120
Zinc	37.0	0.400	"	36.5	101	80-120
Selenium	3.86	0.260	"	3.65	106	80-120

Duplicate (BHG0683-DUP1)

Source: 2407289-01

Prepared: 07/24/24 Analyzed: 07/25/24

Arsenic	2.46	0.200	mg/kg dry	2.32	5.69	20
Barium	80.3	0.400	"	87.3	8.29	20
Cadmium	0.272	0.200	"	0.234	15.1	20
Copper	5.49	0.400	"	5.32	3.14	20
Lead	7.88	0.200	"	7.53	4.47	20
Nickel	6.23	0.400	"	5.93	4.99	20
Silver	0.0196	0.0200	"	0.0170	14.6	20
Zinc	18.7	0.400	"	18.5	1.04	20
Selenium	ND	0.260	"	ND		20

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Broomfield CO, 80020

Project: Noble - Torres USX AB 35-09

Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

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 BHG0683 - EPA 3050B

Matrix Spike (BHG0683-MS1)

Source: 2407289-01

Prepared: 07/24/24 Analyzed: 07/25/24

Arsenic	21.0	0.200	mg/kg dry	40.5	2.32	46.2	75-125				QM-05
Barium	114	0.400	"	40.5	87.3	65.2	75-125				QM-07
Cadmium	2.23	0.200	"	2.03	0.234	98.3	75-125				
Copper	23.9	0.400	"	40.5	5.32	45.8	75-125				QM-05
Lead	24.1	0.200	"	20.3	7.53	81.8	75-125				
Nickel	23.8	0.400	"	40.5	5.93	44.2	75-125				QM-05
Silver	1.95	0.0200	"	2.03	0.0170	95.2	75-125				
Zinc	37.0	0.400	"	40.5	18.5	45.6	75-125				QM-05
Selenium	3.23	0.260	"	4.05	ND	79.6	75-125				

Matrix Spike Dup (BHG0683-MSD1)

Source: 2407289-01

Prepared: 07/24/24 Analyzed: 07/25/24

Arsenic	19.9	0.181	mg/kg dry	40.0	2.32	44.0	75-125	5.63	25		QM-05
Barium	143	0.362	"	40.0	87.3	141	75-125	23.1	25		QM-07
Cadmium	2.19	0.181	"	2.00	0.234	98.0	75-125	1.50	25		
Copper	23.1	0.362	"	40.0	5.32	44.4	75-125	3.57	25		QM-05
Lead	23.4	0.181	"	20.0	7.53	79.5	75-125	2.95	25		
Nickel	23.7	0.362	"	40.0	5.93	44.5	75-125	0.472	25		QM-05
Silver	1.92	0.0181	"	2.00	0.0170	95.2	75-125	1.50	25		
Zinc	36.2	0.362	"	40.0	18.5	44.3	75-125	2.13	25		QM-05
Selenium	3.15	0.236	"	4.00	ND	78.9	75-125	2.24	25		

Post Spike (BHG0683-PS1)

Source: 2407289-01

Prepared: 07/24/24 Analyzed: 07/25/24

Arsenic	55.3		ug/l	100	5.27	50.0	75-125				QM-01
Barium	296		"	100	198	98.5	75-125				
Cadmium	5.42		"	5.00	0.530	97.8	75-125				
Copper	61.2		"	100	12.1	49.1	75-125				QM-01
Lead	59.8		"	50.0	17.1	85.4	75-125				
Nickel	61.8		"	100	13.4	48.4	75-125				QM-01
Silver	4.88		"	5.00	0.0385	96.9	75-125				
Zinc	92.8		"	100	42.0	50.8	75-125				QM-01
Selenium	8.92		"	10.0	0.133	87.9	75-125				

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Tasman Geosciences
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Broomfield CO, 80020

Project: Noble - Torres USX AB 35-09

Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

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 BHG0688 - 3060A Mod

Blank (BHG0688-BLK1)

Prepared & Analyzed: 07/24/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHG0688-BS1)

Prepared & Analyzed: 07/24/24

Chromium, Hexavalent 25.6 0.30 mg/kg wet 25.0 102 80-120

Duplicate (BHG0688-DUP1)

Source: 2407289-01

Prepared & Analyzed: 07/24/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHG0688-MS1)

Source: 2407289-01

Prepared & Analyzed: 07/24/24

Chromium, Hexavalent 29.4 0.30 mg/kg dry 27.6 ND 107 75-125

Matrix Spike Dup (BHG0688-MSD1)

Source: 2407289-01

Prepared & Analyzed: 07/24/24

Chromium, Hexavalent 29.2 0.30 mg/kg dry 27.6 ND 106 75-125 0.752 20

Summit Scientific

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

Project: Noble - Torres USX AB 35-09

Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

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 BHG0684 - General Preparation

Blank (BHG0684-BLK1)

Prepared: 07/24/24 Analyzed: 07/26/24

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

LCS (BHG0684-BS1)

Prepared: 07/24/24 Analyzed: 07/26/24

Calcium	5.62	0.0500	mg/L wet			70-130				
Magnesium	5.78	0.0500	"			70-130				
Sodium	5.71	0.0500	"			70-130				

Summit Scientific

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

Project: Noble - Torres USX AB 35-09

Project Number: UWRWE-A4149-ABN
 Project Manager: Jacob Whritenour

Reported:
 07/30/24 09:14

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 BHG0678 - General Preparation

Duplicate (BHG0678-DUP1)

Source: 2407302-01

Prepared & Analyzed: 07/24/24

% Solids	92.7		%		92.5			0.245	20	
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Summit Scientific

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

Project: Noble - Torres USX AB 35-09

Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

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 BHG0685 - General Preparation

Blank (BHG0685-BLK1)

Prepared: 07/24/24 Analyzed: 07/26/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHG0685-BS1)

Prepared: 07/24/24 Analyzed: 07/26/24

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 103 95-105

Duplicate (BHG0685-DUP1)

Source: 2407289-01

Prepared: 07/24/24 Analyzed: 07/26/24

Specific Conductance (EC) 0.206 0.0100 mmhos/cm 0.209 1.30 20

Summit Scientific

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

Project: Noble - Torres USX AB 35-09

Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

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 BHG0687 - General Preparation

LCS (BHG0687-BS1)

Prepared: 07/24/24 Analyzed: 07/26/24

pH	9.17	pH Units	9.18	99.9	95-105
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Duplicate (BHG0687-DUP1)

Source: 2407289-01

Prepared: 07/24/24 Analyzed: 07/26/24

pH	9.06	pH Units	9.18	1.32	20
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Summit Scientific

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

Project: Noble - Torres USX AB 35-09

Project Number: UWRWE-A4149-ABN
Project Manager: Jacob Whritenour

Reported:
07/30/24 09:14

Notes and Definitions

- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- 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.
- QM-01 The spike recovery for this QC sample is outside of established control limits due to sample 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