TABLE 1
SOIL SAMPLE LOCATIONS
NOBLE ENERGY, INC. - GREER 23-28

Soil Sample ID	Date	PID (ppm)	Visual	Olfactory	Sample Type (Grab/Lab)	Latitude[1]	Longitude	PDOP
FL01-A@3'	09/26/23	0.3	No Staining	No Odor	Lab	40.108164	-104.557673	0.9

Notes:

PID = Photoionization detector

ppm = parts per million

PDOP = Position dilution of precision

HC = Hydrocarbon

1.) Latitude and longitude coordinates will be provided in decimal degrees with an accuracy and precision of 5 decimals of a degree using the North American Datum (“NAD”) of 1983

TABLE 2
SOIL ANALYTICAL DATA
NOBLE ENERGY, INC. - GREER 23-28

Soil Sample ID	Date	[1]Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4 - TMB (mg/kg)	1,3,5 - TMB (mg/kg)	Naphthalene (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benz(a) (mg/kg)	Benzo(a) (mg/kg)	Benzo(b) (mg/kg)	Benzo(k) (mg/kg)	Chrysene (mg/kg)	A,H (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	Pyrene (mg/kg)	1-M (mg/kg)	2-M (mg/kg)
Residential SSL[2]		**1.2**	**490**	**5.8**	**58**	**30**	**27**	**2**	**500**			**360**	**1,800**	**1.1**	**0.11**	**1.1**	**11**	**110**	**0.11**	**240**	**240**	**1.1**	**180**	**18**	**24**
Protection of Groundwater SSL[2,3]		**0.0026**	**0.69**	**0.78**	**9.9**	**0.0081**	**0.0087**	**0.0038**	**500**			**0.55**	**6**	**0.011**	**0.24**	**0.3**	**2.9**	**9**	**0.096**	**8.9**	**0.54**	**0.98**	**1.3**	**0.006**	**0.019**
FL01-A@3'	09/26/23	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	70	<50	0.0345	0.0976	**0.162**	**0.111**	0.151	0.0592	0.153	0.0160	0.355	0.0433	0.0821	0.255	**0.0154**	**0.0303**

Soil Sample ID	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
Residential SSL[2]		**6 - 8.3**	**<6**	**<4mmhos/cm**	**2**
FL01-A@3'	09/26/23	8.28	0.201	0.215	<2.00

Soil Sample ID	Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
Residential SSL[2]		**0.68**	**15,000**	**71**	**0.3**	**3,100**	**400**	**1,500**	**390**	**390**	**23,000**
Protection of Groundwater SSL[2,3]		**0.29**	**82**	**0.38**	**0.00067**	**46**	**14**	**26**	**0.26**	**0.8**	**370**
FL01-A@3'	09/26/23	**5.00**	**174**	**0.555**	<0.30	11.4	**39.7**	7.88	<0.260	0.0660	34.4

Notes:
1. Compounds referenced from 2 CCR 404-1, Table 915-1, effective January 15, 2021.
2. Soil Screening Levels (SSL) referenced from EPA Regional Screening Levels (EPA RSLs) for Chemical Contaminants at Superfund Sites, effective November 2020.
3. SSLs are applicable if a pathway for communication with groundwater is present.

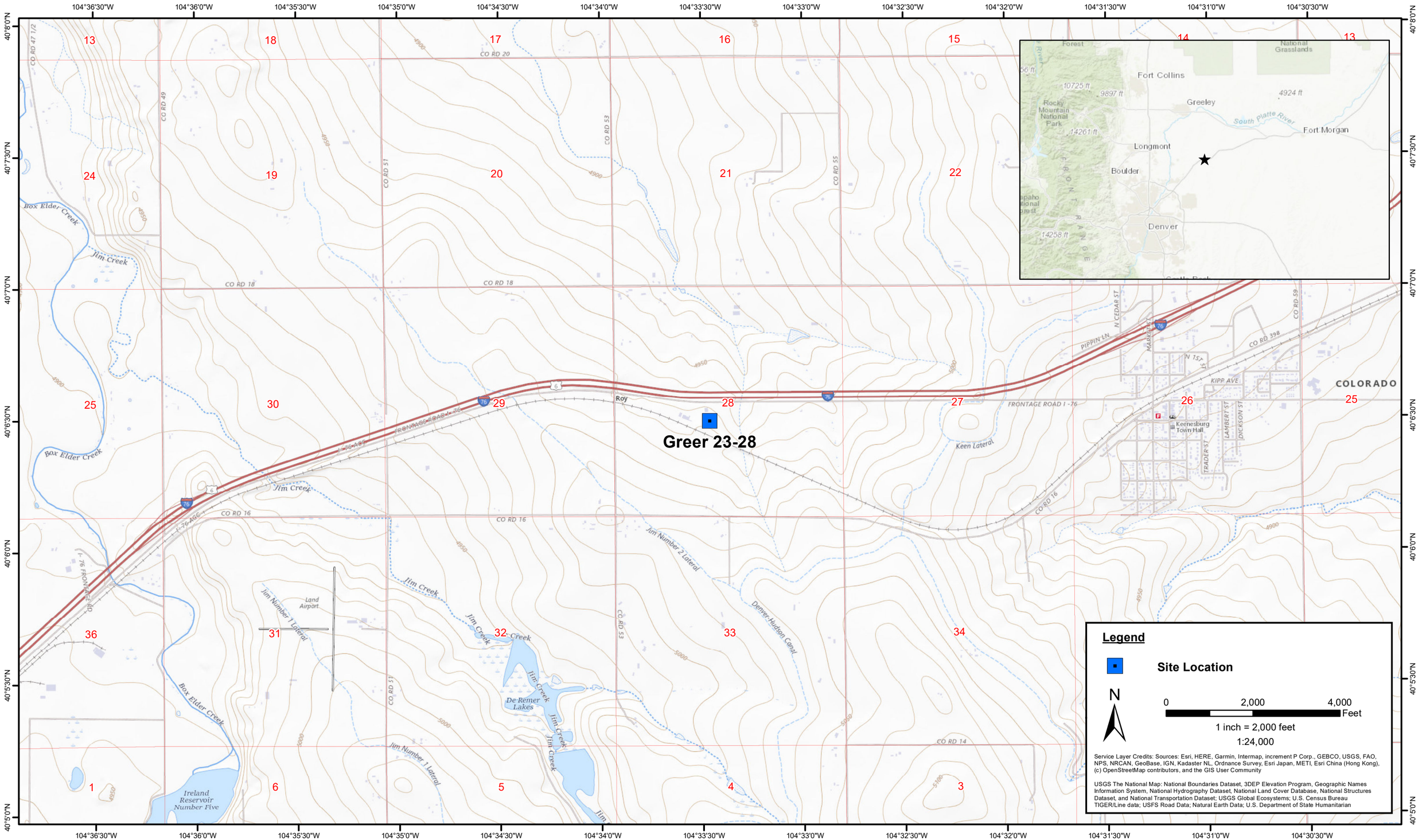
Definitions:

COGCC = Colorado Oil and Gas Conservation Commission
TPH-GRO = Total petroleum hydrocarbons - gasoline range organics
TPH-DRO = Total petroleum hydrocarbons - diesel range organics
TPH-ORO = Total petroleum hydrocarbons - oil range organics
mg/kg = Milligrams per kilogram
SAR = Sodium Adsorption Ratio
EC = Electrical Conductivity
mmhos/cm = Millmhos per centimeter
mg/L = Milligrams per liter
< = Analytical result is less than the indicated laboratory reporting limit
Highlighted results are equal to or exceed the COGCC Table 915-1 standard

1,2,4 - TMB = 1,2,4 Trimethylbenzene
1,3,5 - TMB = 1,3,5 Trimethylbenzene
Benz(a) = Benzo(a)anthracene
Benzo(b) = Benzo(b)fluoranthene
Benzo(k) = Benzo(k)fluoranthene
Benzo(a) = Benzo(a)pyrene
A,H = Dibenzo(a,h)anthracene
1,2,3-CD = Indeno(1,2,3-cd)pyrene
1-M = 1-methylnaphthalene
2-M = 2-methylnaphthalene

Photographic Log

Equipment ID: FL01-A@3'	**Equipment Type:** Flowline		**Equipment ID:**	**Equipment Type:**	
Material: Steel	**Volume:**	**Contents:** Oil/Gas/Water	**Material:**	**Volume:**	**Contents:**
Notes/Conditions: Facing West			**Notes/Conditions:**		



DATE: October 2023 DESIGNED BY: J. Whritenour DRAWN BY: L. Reed	TASMAN **Tasman, Inc.** **6855 W. 119th Ave** **Broomfield, CO 80020**	**Noble Energy, Inc - DJ Basin** **Greer 23-28** NESW, Section 28, Township 2 North, Range 64 West Weld County, Colorado	Site Location Map	Figure 1

DATE:	10/13/2023
DESIGNED BY:	JW
DRAWN BY:	HM

TASMAN GEOSCIENCES

Tasman Geosciences, Inc.
6855 W 119th Avenue
Broomfield, CO 80020

Noble Energy, Inc. – DJ Basin
Greer 23-28
NESW, Section 28, Township 2 North, Range 64 West
Weld County, Colorado

Flowline Closure & Soil Analytical Results Map
(09/26/2023)

FIGURE
2

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

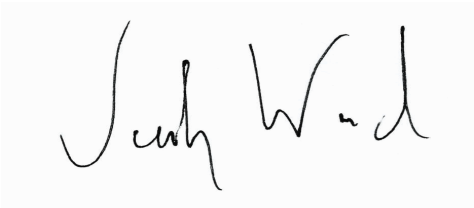
October 13, 2023

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

RE: Noble - Greer 23-28
Work Order #2309480

Enclosed are the results of analyses for samples received by Summit Scientific on 09/26/23 18:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jacob Wood For Paul Shrewsbury
President

S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Greer 23-28 Project Number: UWRWE-A1888-ABN Project Manager: Jacob Whritenour	**Reported:** 10/13/23 13:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01-A@3'	2309480-01	Soil	09/26/23 13:19	09/26/23 18:00

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
230914 AB 80	

	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: Greer 23-28
City/State/Zip: Broomfield, CO 80020		AFE#: UWRWE-A1888-ABN
Phone: 303-903-5168	Project Name: Greer 23-28	PO/Billing Codes:
Sampler Name: Dalton Hagen	Project Number:	Contact: Miguel Barron

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other ___	Water	Soil	Air-Canister #	Other ___	VOC - 915	TPH - 915	PAH - 915	pH,EC,SAR	Boron - HWS	Metals - 915	HOLD		pH, EC, SAR by saturated paste
1	FL01-AE3	9/26/23	1319	3			X			X			X	X	X	X	X	X			
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by:	Date/Time:	Received by:	Date/Time:
Dalton	9/26/23 1500	Tasman Lockbox	9/26/23 1500
Tasman Lockbox	9/26/23 1500	[signature]	9/26/23 1500

TAT Business Days		Field DO	
Same Day		Field EC	
1 Day		Field ORP	
2 Days		Field pH	
3 Days		Field Temp.	
Standard	X	Field Turb.	

Notes:

Temperature Upon Receipt: 3.4 | Corrected Temperature: — | IR gun #: 2 | HNO3 lot #:

S2

Sample Receipt Checklist

S2 Work Order# 2309480

Client: Noble / Tasman Client Project ID: Greer 23-28

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

[ ] [✓] [ ] [ ] [ ]

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

Temp (°C) 3.4 Thermometer # 2

	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.	✓			on ice
If custody seals are present, are they intact? (1)	✓			
Are samples due within 48 hours present?		✓		
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			✓	
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)	✓			
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 samples preserved that require preservation **(excluding cooling)?** (1) Note the type of preservative in the comments column – HCl, H_2SO_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?			✓	
Additional Comments (if any):				
(1) If NO, then contact the client before proceeding with analysis and note in case narrative.				

AS
Custodian Printed Name

9/26/23
Date/Time

S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Greer 23-28 Project Number: UWRWE-A1888-ABN Project Manager: Jacob Whritenour	**Reported:** 10/13/23 13:38

FL01-A@3'

2309480-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/26/23 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGI0863	09/27/23	09/28/23	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: **09/26/23 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0415	*104 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8	0.0419	*105 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0386	*96.4 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/26/23 13:19**

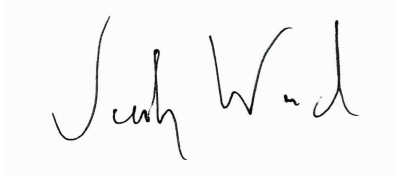
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**70**	50	mg/kg	1	BGI0864	09/27/23	09/28/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/26/23 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	6.72	*53.8 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific



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S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Greer 23-28 Project Number: UWRWE-A1888-ABN Project Manager: Jacob Whritenour	**Reported:** 10/13/23 13:38

FL01-A@3'

2309480-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/26/23 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	**0.0345**	0.00500	mg/kg	1	BGI0835	09/27/23	09/28/23	EPA 8270D SIM	
Anthracene	**0.0976**	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	**0.162**	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	**0.111**	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	**0.151**	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	**0.0592**	0.00500	"	"	"	"	"	"	
Chrysene	**0.153**	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	**0.0160**	0.00500	"	"	"	"	"	"	
Fluoranthene	**0.355**	0.00500	"	"	"	"	"	"	
Fluorene	**0.0433**	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	**0.0821**	0.00500	"	"	"	"	"	"	
Pyrene	**0.255**	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	**0.0154**	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	**0.0303**	0.00500	"	"	"	"	"	"	

Date Sampled: **09/26/23 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0195	*58.5 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0148	*44.5 %*	*40-150*		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/26/23 13:19**

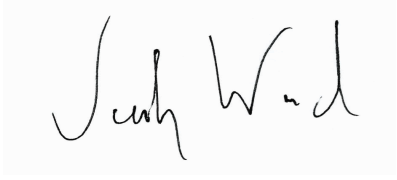
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGI0942	09/29/23	10/02/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/26/23 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**5.00**	0.200	mg/kg dry	1	BGI0958	09/29/23	10/01/23	EPA 6020B	

Summit Scientific



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S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Greer 23-28 Project Number: UWRWE-A1888-ABN Project Manager: Jacob Whritenour	**Reported:** 10/13/23 13:38

FL01-A@3'

2309480-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Barium	**174**	0.400	mg/kg dry	1	BGI0958	09/29/23	10/01/23	EPA 6020B
Cadmium	**0.555**	0.200	"	"	"	"	"	"
Copper	**11.4**	0.400	"	"	"	"	"	"
Lead	**39.7**	0.200	"	"	"	"	"	"
Nickel	**7.88**	0.400	"	"	"	"	"	"
Silver	**0.0660**	0.0200	"	"	"	"	"	"
Zinc	**34.4**	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/26/23 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0850	09/27/23	09/27/23	EPA 7196A	

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

Date Sampled: **09/26/23 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**106**	0.0500	mg/L dry	1	BGI0957	09/29/23	10/02/23	EPA 6020B	
Magnesium	**10.7**	0.0500	"	"	"	"	"	"	
Sodium	**8.14**	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/26/23 13:19**

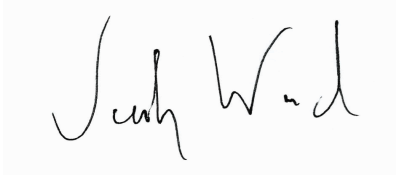
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.201**	0.00100	units	1	BGJ0067	10/03/23	10/03/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/26/23 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**84.2**		%	1	BGI0938	09/29/23	09/29/23	Calculation	

Summit Scientific



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S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Greer 23-28 Project Number: UWRWE-A1888-ABN Project Manager: Jacob Whritenour	**Reported:** 10/13/23 13:38

FL01-A@3'

2309480-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

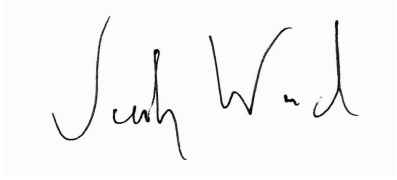
Date Sampled: **09/26/23 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.215**	0.0100	mmhos/cm	1	BGJ0011	10/02/23	10/02/23	EPA 120.1	

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

Date Sampled: **09/26/23 13:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.28**		pH Units	1	BGJ0012	10/02/23	10/02/23	EPA 9045D	



S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Greer 23-28 Project Number: UWRWE-A1888-ABN Project Manager: Jacob Whritenour	**Reported:** 10/13/23 13:38

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGI0863 - EPA 5030 Soil MS										
Blank (BGI0863-BLK1)				Prepared & Analyzed: 09/27/23						
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	*0.0418*		*"*	*0.0400*		*105*	*50-150*			
Surrogate: Toluene-d8	*0.0403*		*"*	*0.0400*		*101*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0386*		*"*	*0.0400*		*96.5*	*50-150*			
LCS (BGI0863-BS1)				Prepared & Analyzed: 09/27/23						
Benzene	0.134	0.0020	mg/kg	0.100		134	70-130			QLCS-01
Toluene	0.135	0.0050	"	0.100		135	70-130			QLCS-01
Ethylbenzene	0.134	0.0050	"	0.100		134	70-130			QLCS-01
m,p-Xylene	0.263	0.010	"	0.200		132	70-130			QLCS-01
o-Xylene	0.116	0.0050	"	0.100		116	70-130			
1,2,4-Trimethylbenzene	0.118	0.0050	"	0.100		118	70-130			
1,3,5-Trimethylbenzene	0.122	0.0050	"	0.100		122	70-130			
Naphthalene	0.106	0.0038	"	0.100		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0428*		*"*	*0.0400*		*107*	*50-150*			
Surrogate: Toluene-d8	*0.0405*		*"*	*0.0400*		*101*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0398*		*"*	*0.0400*		*99.4*	*50-150*			
Matrix Spike (BGI0863-MS1)		**Source: 2309460-01**		Prepared & Analyzed: 09/27/23						
Benzene	0.117	0.0020	mg/kg	0.100	ND	117	70-130			
Toluene	0.116	0.0050	"	0.100	ND	116	70-130			
Ethylbenzene	0.114	0.0050	"	0.100	ND	114	70-130			
m,p-Xylene	0.223	0.010	"	0.200	ND	112	70-130			
o-Xylene	0.0979	0.0050	"	0.100	ND	97.9	70-130			
1,2,4-Trimethylbenzene	0.0970	0.0050	"	0.100	ND	97.0	70-130			
1,3,5-Trimethylbenzene	0.0997	0.0050	"	0.100	ND	99.7	70-130			
Naphthalene	0.0947	0.0038	"	0.100	ND	94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0415*		*"*	*0.0400*		*104*	*50-150*			
Surrogate: Toluene-d8	*0.0398*		*"*	*0.0400*		*99.6*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0389*		*"*	*0.0400*		*97.4*	*50-150*			

Summit Scientific

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Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Greer 23-28 Project Number: UWRWE-A1888-ABN Project Manager: Jacob Whritenour	**Reported:** 10/13/23 13:38

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGI0863 - EPA 5030 Soil MS										
Matrix Spike Dup (BGI0863-MSD1)	**Source: 2309460-01**			Prepared & Analyzed: 09/27/23						
Benzene	0.0959	0.0020	mg/kg	0.100	ND	95.9	70-130	19.4	30	
Toluene	0.0978	0.0050	"	0.100	ND	97.8	70-130	16.8	30	
Ethylbenzene	0.0974	0.0050	"	0.100	ND	97.4	70-130	16.1	30	
m,p-Xylene	0.192	0.010	"	0.200	ND	96.0	70-130	15.1	30	
o-Xylene	0.0838	0.0050	"	0.100	ND	83.8	70-130	15.5	30	
1,2,4-Trimethylbenzene	0.0806	0.0050	"	0.100	ND	80.6	70-130	18.5	30	
1,3,5-Trimethylbenzene	0.0831	0.0050	"	0.100	ND	83.1	70-130	18.2	30	
Naphthalene	0.0838	0.0038	"	0.100	ND	83.8	70-130	12.2	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0436*		*"*	*0.0400*		*109*	*50-150*			
Surrogate: Toluene-d8	*0.0404*		*"*	*0.0400*		*101*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0375*		*"*	*0.0400*		*93.7*	*50-150*			

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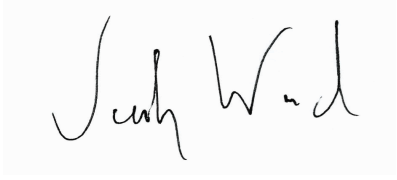
Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Greer 23-28 Project Number: UWRWE-A1888-ABN Project Manager: Jacob Whritenour	**Reported:** 10/13/23 13:38

Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGI0864 - EPA 3550A										
Blank (BGI0864-BLK1)				Prepared & Analyzed: 09/27/23						
C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	*11.3*		*"*	*12.5*		*90.0*	*30-150*			
LCS (BGI0864-BS1)				Prepared & Analyzed: 09/27/23						
C10-C28 (DRO)	351	50	mg/kg	500		70.2	70-130			
Surrogate: o-Terphenyl	*10.9*		*"*	*12.5*		*86.9*	*30-150*			
Matrix Spike (BGI0864-MS1)	**Source: 2309460-01**			Prepared & Analyzed: 09/27/23						
C10-C28 (DRO)	365	50	mg/kg	500	7.96	71.4	70-130			
Surrogate: o-Terphenyl	*10.9*		*"*	*12.5*		*87.2*	*30-150*			
Matrix Spike Dup (BGI0864-MSD1)	**Source: 2309460-01**			Prepared & Analyzed: 09/27/23						
C10-C28 (DRO)	373	50	mg/kg	500	7.96	73.0	70-130	2.17	20	
Surrogate: o-Terphenyl	*9.53*		*"*	*12.5*		*76.2*	*30-150*			



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Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Greer 23-28 Project Number: UWRWE-A1888-ABN Project Manager: Jacob Whritenour	**Reported:** 10/13/23 13:38

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGI0835 - EPA 5030 Soil MS										
Blank (BGI0835-BLK1)				Prepared & Analyzed: 09/27/23						
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	"							
Surrogate: 2-Methylnaphthalene-d10	*0.0214*		*"*	*0.0333*		*64.2*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0180*		*"*	*0.0333*		*53.9*	*40-150*			
LCS (BGI0835-BS1)				Prepared & Analyzed: 09/27/23						
Acenaphthene	0.0359	0.00500	mg/kg	0.0333		108	31-137			
Anthracene	0.0357	0.00500	"	0.0333		107	30-120			
Benzo (a) anthracene	0.0324	0.00500	"	0.0333		97.2	30-120			
Benzo (a) pyrene	0.0352	0.00500	"	0.0333		106	30-120			
Benzo (b) fluoranthene	0.0361	0.00500	"	0.0333		108	30-120			
Benzo (k) fluoranthene	0.0365	0.00500	"	0.0333		110	30-120			
Chrysene	0.0343	0.00500	"	0.0333		103	30-120			
Dibenz (a,h) anthracene	0.0335	0.00500	"	0.0333		100	30-120			
Fluoranthene	0.0369	0.00500	"	0.0333		111	30-120			
Fluorene	0.0356	0.00500	"	0.0333		107	30-120			
Indeno (1,2,3-cd) pyrene	0.0250	0.00500	"	0.0333		74.9	30-120			
Pyrene	0.0339	0.00500	"	0.0333		102	35-142			
1-Methylnaphthalene	0.0354	0.00500	"	0.0333		106	35-142			
2-Methylnaphthalene	0.0398	0.00500	"	0.0333		119	35-142			
Surrogate: 2-Methylnaphthalene-d10	*0.0360*		*"*	*0.0333*		*108*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0304*		*"*	*0.0333*		*91.2*	*40-150*			

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Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Greer 23-28 Project Number: UWRWE-A1888-ABN Project Manager: Jacob Whritenour	**Reported:** 10/13/23 13:38

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGI0835 - EPA 5030 Soil MS										
Matrix Spike (BGI0835-MS1)	**Source: 2309477-01**			Prepared & Analyzed: 09/27/23						
Acenaphthene	0.0170	0.00500	mg/kg	0.0333	ND	51.1	31-137			
Anthracene	0.0180	0.00500	"	0.0333	ND	53.9	30-120			
Benzo (a) anthracene	0.0138	0.00500	"	0.0333	ND	41.4	30-120			
Benzo (a) pyrene	0.0144	0.00500	"	0.0333	ND	43.1	30-120			
Benzo (b) fluoranthene	0.0146	0.00500	"	0.0333	ND	43.9	30-120			
Benzo (k) fluoranthene	0.0157	0.00500	"	0.0333	ND	47.1	30-120			
Chrysene	0.0154	0.00500	"	0.0333	ND	46.1	30-120			
Dibenz (a,h) anthracene	0.0168	0.00500	"	0.0333	ND	50.3	30-120			
Fluoranthene	0.0185	0.00500	"	0.0333	ND	55.6	30-120			
Fluorene	0.0173	0.00500	"	0.0333	ND	52.0	30-120			
Indeno (1,2,3-cd) pyrene	0.0159	0.00500	"	0.0333	ND	47.8	30-120			
Pyrene	0.0158	0.00500	"	0.0333	ND	47.4	35-142			
1-Methylnaphthalene	0.0138	0.00500	"	0.0333	ND	41.4	15-130			
2-Methylnaphthalene	0.0137	0.00500	"	0.0333	ND	41.0	15-130			
Surrogate: 2-Methylnaphthalene-d10	*0.0175*		*"*	*0.0333*		*52.4*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0173*		*"*	*0.0333*		*52.0*	*40-150*			
Matrix Spike Dup (BGI0835-MSD1)	**Source: 2309477-01**			Prepared & Analyzed: 09/27/23						
Acenaphthene	0.0182	0.00500	mg/kg	0.0333	ND	54.5	31-137	6.29	30	
Anthracene	0.0158	0.00500	"	0.0333	ND	47.5	30-120	12.6	30	
Benzo (a) anthracene	0.0171	0.00500	"	0.0333	ND	51.2	30-120	21.1	30	
Benzo (a) pyrene	0.0135	0.00500	"	0.0333	ND	40.4	30-120	6.42	30	
Benzo (b) fluoranthene	0.0136	0.00500	"	0.0333	ND	40.9	30-120	6.91	30	
Benzo (k) fluoranthene	0.0146	0.00500	"	0.0333	ND	43.8	30-120	7.17	30	
Chrysene	0.0149	0.00500	"	0.0333	ND	44.6	30-120	3.36	30	
Dibenz (a,h) anthracene	0.0163	0.00500	"	0.0333	ND	48.9	30-120	2.77	30	
Fluoranthene	0.0164	0.00500	"	0.0333	ND	49.2	30-120	12.3	30	
Fluorene	0.0181	0.00500	"	0.0333	ND	54.4	30-120	4.64	30	
Indeno (1,2,3-cd) pyrene	0.0141	0.00500	"	0.0333	ND	42.3	30-120	12.3	30	
Pyrene	0.0153	0.00500	"	0.0333	ND	46.0	35-142	2.93	30	
1-Methylnaphthalene	0.0164	0.00500	"	0.0333	ND	49.1	15-130	17.0	50	
2-Methylnaphthalene	0.0178	0.00500	"	0.0333	ND	53.3	15-130	26.0	50	
Surrogate: 2-Methylnaphthalene-d10	*0.0153*		*"*	*0.0333*		*45.9*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0151*		*"*	*0.0333*		*45.2*	*40-150*			

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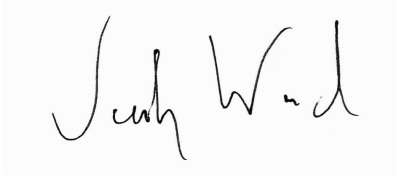
Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Greer 23-28 Project Number: UWRWE-A1888-ABN Project Manager: Jacob Whritenour	**Reported:** 10/13/23 13:38

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGI0942 - EPA 3050B										
Blank (BGI0942-BLK1)				Prepared: 09/29/23 Analyzed: 10/02/23						
Boron	ND	2.00	mg/L							
LCS (BGI0942-BS1)				Prepared: 09/29/23 Analyzed: 10/02/23						
Boron	5.17	2.00	mg/L	5.00		103	80-120			
Duplicate (BGI0942-DUP1)	**Source: 2309479-01**			Prepared: 09/29/23 Analyzed: 10/02/23						
Boron	0.207	2.00	mg/L		0.285			31.5	20	QR-01
Matrix Spike (BGI0942-MS1)	**Source: 2309479-01**			Prepared: 09/29/23 Analyzed: 10/02/23						
Boron	5.21	2.00	mg/L	5.00	0.285	98.4	75-125			
Matrix Spike Dup (BGI0942-MSD1)	**Source: 2309479-01**			Prepared: 09/29/23 Analyzed: 10/02/23						
Boron	5.58	2.00	mg/L	5.00	0.285	106	75-125	6.85	25	



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Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Greer 23-28 Project Number: UWRWE-A1888-ABN Project Manager: Jacob Whritenour	**Reported:** 10/13/23 13:38

Total Metals by EPA 6020B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGI0958 - EPA 3050B										
Blank (BGI0958-BLK1)				Prepared: 09/29/23 Analyzed: 10/01/23						
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 (BGI0958-BS1)				Prepared: 09/29/23 Analyzed: 10/01/23						
Arsenic	38.2	0.200	mg/kg wet	40.0		95.6	80-120			
Barium	40.5	0.400	"	40.0		101	80-120			
Cadmium	1.99	0.200	"	2.00		99.3	80-120			
Copper	39.2	0.400	"	40.0		98.1	80-120			
Lead	19.9	0.200	"	20.0		99.4	80-120			
Nickel	39.1	0.400	"	40.0		97.7	80-120			
Silver	1.97	0.0200	"	2.00		98.4	80-120			
Zinc	39.8	0.400	"	40.0		99.5	80-120			
Duplicate (BGI0958-DUP1)	**Source: 2309017-06**			Prepared: 09/29/23 Analyzed: 10/01/23						
Arsenic	0.534	0.200	mg/kg dry		0.711			28.5	20	QR-01
Barium	10.2	0.400	"		11.7			13.4	20	
Cadmium	0.0390	0.200	"		0.0452			14.7	20	
Copper	2.15	0.400	"		1.67			25.1	20	QR-01
Lead	2.01	0.200	"		1.81			10.7	20	
Nickel	2.39	0.400	"		1.88			24.0	20	QR-01
Silver	0.00620	0.0200	"		0.00576			7.41	20	
Zinc	8.58	0.400	"		7.13			18.5	20	
Selenium	0.184	0.260	"		ND			200	200	

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Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Greer 23-28 Project Number: UWRWE-A1888-ABN Project Manager: Jacob Whritenour	**Reported:** 10/13/23 13:38

Total Metals by EPA 6020B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGI0958 - EPA 3050B										
Matrix Spike (BGI0958-MS1)	**Source: 2309017-06**			Prepared: 09/29/23 Analyzed: 10/01/23						
Arsenic	50.8	0.200	mg/kg dry	44.3	0.711	113	75-125			
Barium	63.7	0.400	"	44.3	11.7	117	75-125			
Cadmium	2.71	0.200	"	2.21	0.0452	120	75-125			
Copper	43.9	0.400	"	44.3	1.67	95.3	75-125			
Lead	28.0	0.200	"	22.1	1.81	118	75-125			
Nickel	43.9	0.400	"	44.3	1.88	94.9	75-125			
Silver	2.46	0.0200	"	2.21	0.00576	111	75-125			
Zinc	51.7	0.400	"	44.3	7.13	101	75-125			
Matrix Spike Dup (BGI0958-MSD1)	**Source: 2309017-06**			Prepared: 09/29/23 Analyzed: 10/01/23						
Arsenic	46.5	0.200	mg/kg dry	44.3	0.711	103	75-125	8.73	25	
Barium	56.8	0.400	"	44.3	11.7	102	75-125	11.3	25	
Cadmium	2.48	0.200	"	2.21	0.0452	110	75-125	8.79	25	
Copper	42.8	0.400	"	44.3	1.67	92.9	75-125	2.49	25	
Lead	26.4	0.200	"	22.1	1.81	111	75-125	5.79	25	
Nickel	43.0	0.400	"	44.3	1.88	92.8	75-125	2.12	25	
Silver	2.28	0.0200	"	2.21	0.00576	103	75-125	7.54	25	
Zinc	50.1	0.400	"	44.3	7.13	97.1	75-125	3.01	25	

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Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Greer 23-28 Project Number: UWRWE-A1888-ABN Project Manager: Jacob Whritenour	**Reported:** 10/13/23 13:38

Hexavalent Chromium by EPA Method 7196 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGI0850 - 3060A_Mod										
Blank (BGI0850-BLK1)				Prepared & Analyzed: 09/27/23						
Chromium, Hexavalent	ND	0.30	mg/kg wet							
LCS (BGI0850-BS1)				Prepared & Analyzed: 09/27/23						
Chromium, Hexavalent	25.9	0.30	mg/kg wet	25.0		104	80-120			
Duplicate (BGI0850-DUP1)		**Source: 2309473-01**		Prepared & Analyzed: 09/27/23						
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
Matrix Spike (BGI0850-MS1)		**Source: 2309473-01**		Prepared & Analyzed: 09/27/23						
Chromium, Hexavalent	25.7	0.30	mg/kg dry	29.1	ND	88.2	75-125			
Matrix Spike Dup (BGI0850-MSD1)		**Source: 2309473-01**		Prepared & Analyzed: 09/27/23						
Chromium, Hexavalent	25.9	0.30	mg/kg dry	29.1	ND	89.0	75-125	0.903	20	

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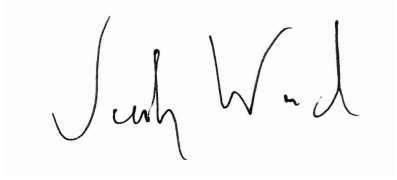
Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Greer 23-28 Project Number: UWRWE-A1888-ABN Project Manager: Jacob Whritenour	**Reported:** 10/13/23 13:38

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGI0957 - General Preparation										
Blank (BGI0957-BLK1)				Prepared: 09/29/23 Analyzed: 10/02/23						
Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							
LCS (BGI0957-BS1)				Prepared: 09/29/23 Analyzed: 10/02/23						
Calcium	5.21	0.0500	mg/L wet	5.00		104	70-130			
Magnesium	5.44	0.0500	"	5.00		109	70-130			
Sodium	5.38	0.0500	"	5.00		108	70-130			



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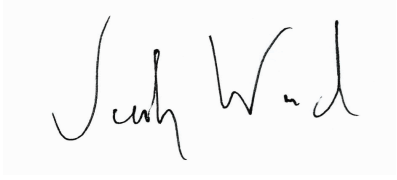
Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Greer 23-28 Project Number: UWRWE-A1888-ABN Project Manager: Jacob Whritenour	**Reported:** 10/13/23 13:38

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGI0938 - General Preparation										
Duplicate (BGI0938-DUP1)		**Source: 2309468-01**		Prepared & Analyzed: 09/29/23						
% Solids	91.9		%		92.3			0.370	20	



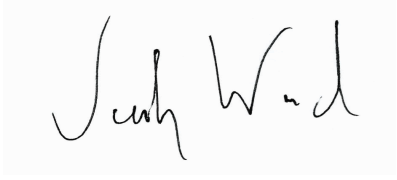
S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Greer 23-28 Project Number: UWRWE-A1888-ABN Project Manager: Jacob Whritenour	**Reported:** 10/13/23 13:38

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGJ0011 - General Preparation										
Blank (BGJ0011-BLK1)				Prepared & Analyzed: 10/02/23						
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
LCS (BGJ0011-BS1)				Prepared & Analyzed: 10/02/23						
Specific Conductance (EC)	0.150	0.0100	mmhos/cm	0.150		99.7	95-105			
Duplicate (BGJ0011-DUP1)		**Source: 2309469-01**		Prepared & Analyzed: 10/02/23						
Specific Conductance (EC)	0.423	0.0100	mmhos/cm		0.423			0.118	20	



S2

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Greer 23-28 Project Number: UWRWE-A1888-ABN Project Manager: Jacob Whritenour	**Reported:** 10/13/23 13:38

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGJ0012 - General Preparation										
LCS (BGJ0012-BS1)				Prepared & Analyzed: 10/02/23						
pH	9.10		pH Units	9.18		99.1	95-105			
Duplicate (BGJ0012-DUP1)		**Source: 2309469-01**		Prepared & Analyzed: 10/02/23						
pH	6.69		pH Units		6.60			1.35	20	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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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.
QLCS-01	The spike recovery was outside acceptance limits for this analyte indicating a potential high bias. The corresponding samples did not exhibit concentrations above reporting level for this analyte. Data quality is not affected.
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