Flowline Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional Attachments:		Tank Battery Closure		Wellhead Closure		Pit Closure		Partially Buried Vault Closure

Site Name & COGCC Facility Number: Webster B06-07	Date: 5/1/2023	Remediation Project #: 22758
Associated Wells:	Age of Site:	Number of Photos Attached: 1

Starting point: (GPS coordinates and descriptions)
40.28795, -104.587499

End point: (GPS coordinates and descriptions)
40.429247, -104.58743

USCS Soil Type: SW	Estimated Depth to Groundwater: >4.5'

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)

None Observed

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)

None Observed

Flowlines

Flowline type	Oil/Water/Gas			
Depth	~4			
Age				
Length	167'			
Construction Material	Steel			
Were flowlines pulled?	No			
Visual Integrity of lines	Good			
Visual impacts if trenched	N/A			
PID Readings if trenched	N/A			
Sample taken? Location/Sample ID#	Yes			
Photo Number(s)	1			

Other observations regarding on location flowlines:
Abandonment occurs from separator to wellhead

Summary

Was impacted soil identified? No

Total number of samples field screened: 1	Total number of samples collected: 1
Highest PID Reading: 1.6	Total number of samples submitted to lab for analysis: 1

If more than 10 cubic yards of impacted soil were observed:

Vertical extent:	Estimated spill volume:
Lateral extent:	Volume of soil removed:

Is additional investigation required?

Was groundwater encountered during the investigation?
No

Measured depth to groundwater:	Was remedial groundwater removal conducted?
Date Groundwater was encountered:	Commencement date of removal:
Sheen on groundwater?	Volume of groundwater removed prior to sampling:
Free product observed?	Volume of groundwater removed post sampling:
Total number of samples collected:	Total Volume of groundwater removed:
Total number of samples submitted to lab for analysis:	

Photographic Log

Equipment ID: FL01-B@4.5'	Equipment Type:		Equipment ID:	Equipment Type:	
Material:	Volume:	Contents:	Material:	Volume:	Contents:
Notes/Conditions: Abandoned in place from here until wellhead			Notes/Conditions:		

TABLE 1
SOIL SAMPLE LOCATIONS
NOBLE ENERGY, INC. WEBSTER B06-07

Soil Sample ID	Date	PID (ppm)	Visual	Olfactory	Sample Type (Grab/Lab)	Latitude[1]	Longitude	PDOP
FL01-B@4.5'	05/01/23	1.6	No Staining	No Odor	Lab	40.42924993	-104.5874541	1.0

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. - WEBSTER B06-07

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-B@4.5'	05/01/23	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Soil Sample ID	Date	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
Residential SSL[2]		**6 - 8.3**	**<6**	**<4mmhos/cm**	**2**
FL01-B@4.5'	05/01/23	7.84	0.0954	0.364	0.243

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) = Benzanthracene
Benzo(b) = Benzofluoranthene
Benzo(k) = Benzofluoranthene
Benzo(a) = Benzopyrene
A,H = Dibenzoanthracene
1,2,3-CD = Indenopyrene
1-M = 1-methylnaphthalene
2-M = 2-methylnaphthalene

DATE:	08/16/2023
DESIGNED BY:	JW
DRAWN BY:	HM

TASMAN GEOSCIENCES

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

Noble Energy, Inc. – DJ Basin
Webster B06-07
SENE, Section 6, Township 5 North, Range 64 West
Weld County, Colorado

Flowline Closure & Soil Analytical Results Map (05/01/2023)

FIGURE 1

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

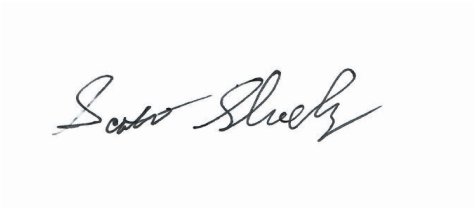
May 11, 2023

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

RE: Noble - Webster B06-07
Work Order #2305019

Enclosed are the results of analyses for samples received by Summit Scientific on 05/01/23 18:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott Sheely For Paul Shrewsbury
President

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Webster B06-07 Project Number: UWRWE-A2944-ABN Project Manager: Jacob Whritenour	**Reported:** 05/11/23 13:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01-B@4.5'	2305019-01	Soil	05/01/23 12:00	05/01/23 18:10

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
2305019	

	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: Webster B06-07
City/State/Zip: Broomfield, CO 80020		AFE#:
Phone: 303-261-6246	Project Name: Webster B06-07	PO/Billing Codes:
Sampler Name: Stanley Gilbert	Project Number: UWRWE-A2944-ABN	Contact: Wade Firestion

					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-B@4.5'	5/1/23	12:00	2			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:	TAT Business Days		Field DO	
[signature]	5/1/23 16:00		5/1/23 16:00	Same Day		Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day		Field ORP	
TasmanLockBox	5/2/23 1810	[signature]	5/2/23 1810	2 Days		Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days		Field Temp.	
				Standard	X	Field Turb.	

Notes:

Temperature Upon Receipt: 10.1 | Corrected Temperature: [illegible] | IR gun #: 1 | HNO3 lot #:

S2

Sample Receipt Checklist

S2 Work Order# 2305019

Client: Nobis Tasmem Client Project ID: Webster BOL-01

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

[ ] [–] [ ] [ ] [ ]

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

Temp (°C) [10.1] Thermometer # [1]

	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.	–			ONICE
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

5/1/23
Date/Time

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Webster B06-07 Project Number: UWRWE-A2944-ABN Project Manager: Jacob Whritenour	**Reported:** 05/11/23 13:27

FL01-B@4.5'

2305019-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/01/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGE0117	05/03/23	05/04/23	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: **05/01/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0542	*135 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8	0.0395	*98.7 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0410	*102 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/01/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGE0118	05/03/23	05/04/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/01/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.3	*82.2 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Webster B06-07 Project Number: UWRWE-A2944-ABN Project Manager: Jacob Whritenour	**Reported:** 05/11/23 13:27

FL01-B@4.5'

2305019-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/01/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGE0043	05/02/23	05/03/23	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: **05/01/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0157	*47.0 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0208	*62.3 %*	*40-150*		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/01/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	**0.243**	0.0100	mg/L	1	BGE0244	05/08/23	05/08/23	EPA 6020B	

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

Date Sampled: **05/01/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

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Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Webster B06-07 Project Number: UWRWE-A2944-ABN Project Manager: Jacob Whritenour	**Reported:** 05/11/23 13:27

FL01-B@4.5'

2305019-01 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**48.5**	0.0580	mg/L dry	1	BGE0271	05/08/23	05/11/23	EPA 6020B	
Magnesium	**7.44**	0.0580	"	"	"	"	"	"	
Sodium	**2.70**	0.0580	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/01/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**0.0954**	0.00100	units	1	BGE0367	05/11/23	05/11/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/01/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**86.3**		%	1	BGE0157	05/04/23	05/04/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

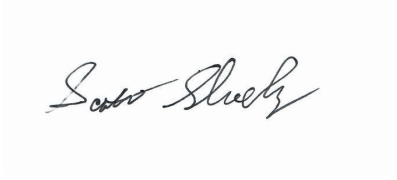
Date Sampled: **05/01/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.364**	0.0100	mmhos/cm	1	BGE0299	05/09/23	05/09/23	EPA 120.1	

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

Date Sampled: **05/01/23 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**7.84**		pH Units	1	BGE0298	05/09/23	05/09/23	EPA 9045D	



Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Webster B06-07 Project Number: UWRWE-A2944-ABN Project Manager: Jacob Whritenour	**Reported:** 05/11/23 13:27

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 BGE0117 - EPA 5030 Soil MS										
Blank (BGE0117-BLK1)				Prepared: 05/03/23 Analyzed: 05/04/23						
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	*0.0456*		*"*	*0.0400*		*114*	*50-150*			
Surrogate: Toluene-d8	*0.0397*		*"*	*0.0400*		*99.2*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0350*		*"*	*0.0400*		*87.4*	*50-150*			
LCS (BGE0117-BS1)				Prepared: 05/03/23 Analyzed: 05/04/23						
Benzene	0.113	0.0020	mg/kg	0.125		90.2	70-130			
Toluene	0.106	0.0050	"	0.125		84.7	70-130			
Ethylbenzene	0.126	0.0050	"	0.125		101	70-130			
m,p-Xylene	0.256	0.010	"	0.250		103	70-130			
o-Xylene	0.124	0.0050	"	0.125		99.3	70-130			
1,2,4-Trimethylbenzene	0.129	0.0050	"	0.125		103	70-130			
1,3,5-Trimethylbenzene	0.129	0.0050	"	0.125		103	70-130			
Naphthalene	0.120	0.0038	"	0.125		96.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0492*		*"*	*0.0400*		*123*	*50-150*			
Surrogate: Toluene-d8	*0.0399*		*"*	*0.0400*		*99.7*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0380*		*"*	*0.0400*		*95.0*	*50-150*			
Matrix Spike (BGE0117-MS1)	**Source: 2305019-01**			Prepared: 05/03/23 Analyzed: 05/04/23						
Benzene	0.127	0.0020	mg/kg	0.125	ND	102	70-130			
Toluene	0.106	0.0050	"	0.125	ND	84.7	70-130			
Ethylbenzene	0.124	0.0050	"	0.125	ND	99.0	70-130			
m,p-Xylene	0.233	0.010	"	0.250	ND	93.3	70-130			
o-Xylene	0.126	0.0050	"	0.125	ND	101	70-130			
1,2,4-Trimethylbenzene	0.125	0.0050	"	0.125	ND	100	70-130			
1,3,5-Trimethylbenzene	0.122	0.0050	"	0.125	ND	97.6	70-130			
Naphthalene	0.124	0.0038	"	0.125	ND	99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0415*		*"*	*0.0400*		*104*	*50-150*			
Surrogate: Toluene-d8	*0.0390*		*"*	*0.0400*		*97.5*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0405*		*"*	*0.0400*		*101*	*50-150*			

Summit Scientific

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Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Webster B06-07 Project Number: UWRWE-A2944-ABN Project Manager: Jacob Whritenour	**Reported:** 05/11/23 13:27

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 BGE0117 - EPA 5030 Soil MS										
Matrix Spike Dup (BGE0117-MSD1)		**Source: 2305019-01**		Prepared: 05/03/23 Analyzed: 05/04/23						
Benzene	0.114	0.0020	mg/kg	0.125	ND	91.1	70-130	11.1	30	
Toluene	0.125	0.0050	"	0.125	ND	99.6	70-130	16.2	30	
Ethylbenzene	0.126	0.0050	"	0.125	ND	101	70-130	1.90	30	
m,p-Xylene	0.239	0.010	"	0.250	ND	95.6	70-130	2.43	30	
o-Xylene	0.130	0.0050	"	0.125	ND	104	70-130	2.91	30	
1,2,4-Trimethylbenzene	0.128	0.0050	"	0.125	ND	103	70-130	2.32	30	
1,3,5-Trimethylbenzene	0.127	0.0050	"	0.125	ND	101	70-130	3.69	30	
Naphthalene	0.121	0.0038	"	0.125	ND	97.2	70-130	2.03	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0423*		*"*	*0.0400*		*106*	*50-150*			
Surrogate: Toluene-d8	*0.0387*		*"*	*0.0400*		*96.8*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0401*		*"*	*0.0400*		*100*	*50-150*			

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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 BGE0118 - EPA 3550A										
Blank (BGE0118-BLK1)				Prepared: 05/03/23 Analyzed: 05/04/23						
C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	*9.57*		*"*	*12.5*		*76.5*	*30-150*			
LCS (BGE0118-BS1)				Prepared: 05/03/23 Analyzed: 05/04/23						
C10-C28 (DRO)	352	50	mg/kg	500		70.3	70-130			
Surrogate: o-Terphenyl	*8.56*		*"*	*12.5*		*68.5*	*30-150*			
Matrix Spike (BGE0118-MS1)	**Source: 2305019-01**			Prepared: 05/03/23 Analyzed: 05/04/23						
C10-C28 (DRO)	485	50	mg/kg	500	15.0	94.0	70-130			
Surrogate: o-Terphenyl	*7.20*		*"*	*12.5*		*57.6*	*30-150*			
Matrix Spike Dup (BGE0118-MSD1)	**Source: 2305019-01**			Prepared: 05/03/23 Analyzed: 05/04/23						
C10-C28 (DRO)	487	50	mg/kg	500	15.0	94.5	70-130	0.523	20	
Surrogate: o-Terphenyl	*8.56*		*"*	*12.5*		*68.4*	*30-150*			

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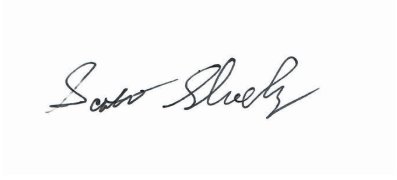
PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGE0043 - EPA 5030 Soil MS										
Blank (BGE0043-BLK1)				Prepared & Analyzed: 05/02/23						
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	*0.0253*		*"*	*0.0333*		*75.8*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0301*		*"*	*0.0333*		*90.4*	*40-150*			
LCS (BGE0043-BS1)				Prepared & Analyzed: 05/02/23						
Acenaphthene	0.0324	0.00500	mg/kg	0.0333		97.2	31-137			
Anthracene	0.0313	0.00500	"	0.0333		93.9	30-120			
Benzo (a) anthracene	0.0306	0.00500	"	0.0333		91.9	30-120			
Benzo (a) pyrene	0.0262	0.00500	"	0.0333		78.7	30-120			
Benzo (b) fluoranthene	0.0260	0.00500	"	0.0333		78.1	30-120			
Benzo (k) fluoranthene	0.0352	0.00500	"	0.0333		106	30-120			
Chrysene	0.0371	0.00500	"	0.0333		111	30-120			
Dibenz (a,h) anthracene	0.0216	0.00500	"	0.0333		64.8	30-120			
Fluoranthene	0.0301	0.00500	"	0.0333		90.2	30-120			
Fluorene	0.0284	0.00500	"	0.0333		85.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0180	0.00500	"	0.0333		54.0	30-120			
Pyrene	0.0410	0.00500	"	0.0333		123	35-142			
1-Methylnaphthalene	0.0300	0.00500	"	0.0333		90.0	35-142			
2-Methylnaphthalene	0.0316	0.00500	"	0.0333		94.7	35-142			
Surrogate: 2-Methylnaphthalene-d10	*0.0286*		*"*	*0.0333*		*85.8*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0301*		*"*	*0.0333*		*90.3*	*40-150*			



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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 BGE0043 - EPA 5030 Soil MS										
Matrix Spike (BGE0043-MS1)	**Source: 2304559-04**			Prepared & Analyzed: 05/02/23						
Acenaphthene	0.0217	0.00500	mg/kg	0.0333	ND	65.1	31-137			
Anthracene	0.0202	0.00500	"	0.0333	ND	60.5	30-120			
Benzo (a) anthracene	0.0250	0.00500	"	0.0333	ND	75.0	30-120			
Benzo (a) pyrene	0.0172	0.00500	"	0.0333	ND	51.7	30-120			
Benzo (b) fluoranthene	0.0164	0.00500	"	0.0333	ND	49.1	30-120			
Benzo (k) fluoranthene	0.0199	0.00500	"	0.0333	ND	59.8	30-120			
Chrysene	0.0264	0.00500	"	0.0333	ND	79.2	30-120			
Dibenz (a,h) anthracene	0.0163	0.00500	"	0.0333	ND	48.9	30-120			
Fluoranthene	0.0208	0.00500	"	0.0333	ND	62.3	30-120			
Fluorene	0.0224	0.00500	"	0.0333	ND	67.2	30-120			
Indeno (1,2,3-cd) pyrene	0.0103	0.00500	"	0.0333	ND	30.8	30-120			
Pyrene	0.0267	0.00500	"	0.0333	ND	80.0	35-142			
1-Methylnaphthalene	0.0215	0.00500	"	0.0333	ND	64.4	15-130			
2-Methylnaphthalene	0.0236	0.00500	"	0.0333	ND	70.9	15-130			
Surrogate: 2-Methylnaphthalene-d10	*0.0203*		*"*	*0.0333*		*61.0*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0231*		*"*	*0.0333*		*69.2*	*40-150*			
Matrix Spike Dup (BGE0043-MSD1)	**Source: 2304559-04**			Prepared & Analyzed: 05/02/23						
Acenaphthene	0.0181	0.00500	mg/kg	0.0333	ND	54.4	31-137	18.0	30	
Anthracene	0.0191	0.00500	"	0.0333	ND	57.4	30-120	5.19	30	
Benzo (a) anthracene	0.0249	0.00500	"	0.0333	ND	74.7	30-120	0.425	30	
Benzo (a) pyrene	0.0173	0.00500	"	0.0333	ND	51.8	30-120	0.170	30	
Benzo (b) fluoranthene	0.0167	0.00500	"	0.0333	ND	50.1	30-120	2.07	30	
Benzo (k) fluoranthene	0.0190	0.00500	"	0.0333	ND	57.1	30-120	4.61	30	
Chrysene	0.0247	0.00500	"	0.0333	ND	74.0	30-120	6.79	30	
Dibenz (a,h) anthracene	0.0171	0.00500	"	0.0333	ND	51.4	30-120	4.98	30	
Fluoranthene	0.0197	0.00500	"	0.0333	ND	59.2	30-120	5.13	30	
Fluorene	0.0201	0.00500	"	0.0333	ND	60.4	30-120	10.6	30	
Indeno (1,2,3-cd) pyrene	0.0128	0.00500	"	0.0333	ND	38.5	30-120	22.1	30	
Pyrene	0.0253	0.00500	"	0.0333	ND	76.0	35-142	5.12	30	
1-Methylnaphthalene	0.0150	0.00500	"	0.0333	ND	45.1	15-130	35.3	50	
2-Methylnaphthalene	0.0176	0.00500	"	0.0333	ND	52.9	15-130	29.1	50	
Surrogate: 2-Methylnaphthalene-d10	*0.0171*		*"*	*0.0333*		*51.2*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0218*		*"*	*0.0333*		*65.3*	*40-150*			

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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 BGE0244 - EPA 3050B										
Blank (BGE0244-BLK1)				Prepared & Analyzed: 05/08/23						
Boron	ND	0.0100	mg/L							
LCS (BGE0244-BS1)				Prepared & Analyzed: 05/08/23						
Boron	4.99	0.0100	mg/L	5.00		99.7	80-120			
Duplicate (BGE0244-DUP1)		**Source: 2305017-01**		Prepared & Analyzed: 05/08/23						
Boron	0.165	0.0100	mg/L		0.182			9.82	20	
Matrix Spike (BGE0244-MS1)		**Source: 2305017-01**		Prepared & Analyzed: 05/08/23						
Boron	5.01	0.0100	mg/L	5.00	0.182	96.6	75-125			
Matrix Spike Dup (BGE0244-MSD1)		**Source: 2305017-01**		Prepared & Analyzed: 05/08/23						
Boron	5.17	0.0100	mg/L	5.00	0.182	99.8	75-125	3.22	25	

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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 BGE0271 - General Preparation										
Blank (BGE0271-BLK1)				Prepared: 05/08/23 Analyzed: 05/10/23						
Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							
LCS (BGE0271-BS1)				Prepared: 05/08/23 Analyzed: 05/10/23						
Calcium	6.40	0.0500	mg/L wet	5.00		128	70-130			
Magnesium	5.97	0.0500	"	5.00		119	70-130			
Sodium	6.24	0.0500	"	5.00		125	70-130			

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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 BGE0157 - General Preparation										
Duplicate (BGE0157-DUP1)	**Source: 2305006-03**			Prepared & Analyzed: 05/04/23						
% Solids	91.1		%		91.8			0.681	20	

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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 BGE0299 - General Preparation										
Blank (BGE0299-BLK1)				Prepared & Analyzed: 05/09/23						
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
LCS (BGE0299-BS1)				Prepared & Analyzed: 05/09/23						
Specific Conductance (EC)	0.150	0.0100	mmhos/cm	0.150		100	95-105			
Duplicate (BGE0299-DUP1)		**Source: 2305017-01**		Prepared & Analyzed: 05/09/23						
Specific Conductance (EC)	0.286	0.0100	mmhos/cm		0.294			2.72	20	

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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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 BGE0298 - General Preparation										
LCS (BGE0298-BS1)				Prepared & Analyzed: 05/09/23						
pH	9.02		pH Units	9.18		98.3	95-105			
Duplicate (BGE0298-DUP1)		**Source: 2305017-01**		Prepared & Analyzed: 05/09/23						
pH	6.80		pH Units		6.63			2.53	20	

Tasman Geosciences 6855 W. 119th Ave. Broomfield CO, 80020	Project: Noble - Webster B06-07 Project Number: UWRWE-A2944-ABN Project Manager: Jacob Whritenour	**Reported:** 05/11/23 13:27

Notes and Definitions

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