

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: Worries 35-14		Date: 1/23/23						Remediation Project #: 24380
Associated Wells:		Age of Site:						Number of Photos Attached: 2
Starting point: (GPS coordinates and descriptions) 40.307188, -104.637356								
End point: (GPS coordinates and descriptions) 40.307994, -104.639321								
USCS Soil Type: SC					Estimated Depth to Groundwater: >3'			
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, Gas, Water							
Depth	~3'							
Age	-							
Length	658'							
Construction Material	Steel							
Were flowlines pulled?	yes							
Visual Integrity of lines	yes							
Visual impacts if trenched	yes							
PID Readings if trenched	0.0							
Sample taken? Location/Sample ID#	yes, see below							
Photo Number(s)	1-2							
Other observations regarding on location flowlines: One Sample taken from two bellholes at 3' deep. Both samples were taking at direction changes.								
Summary								
Was impacted soil identified? No Yes - less than 10 cubic yards Yes - more than 10 cubic yards								
Total number of samples field screened: 2					Total number of samples collected: 2			
Highest PID Reading: 0.0					Total number of samples submitted to lab for analysis: 2			
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 Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils								
Measured depth to groundwater:					Was remedial groundwater removal conducted? Yes No			
Date Groundwater was encountered:					Commencement date of removal:			
Sheen on groundwater? Yes No					Volume of groundwater removed prior to sampling:			
Free product observed? Yes No					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-C@3'		Equipment Type: Flowline		Equipment ID: FL01-D@3'		Equipment Type: Flowline					
Material: Steel		Volume:		Contents:		Material: Steel		Volume:		Contents:	
Notes/Conditions: Direction change						Notes/Conditions: Direction change					

TABLE 1
SOIL SAMPLE LOCATIONS
NOBLE ENERGY, INC. - WORRIES 35-14 FL

Soil Sample ID	Date	PID (ppm)	Visual	Olfactory	Sample Type (Grab/Lab)	Latitude ¹	Longitude	PDOP
FL01-C@3'	01/23/23	0.0	No Staining	No Odor	Lab	40.30767997	-104.6386431	1.1
FL01-D@3'	01/23/23	0.0	No Staining	No Odor	Lab	40.30747112	-104.6377209	1.1

Notes:

PID = Photo-ionization 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. - WORRIES 35-14 FL

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-C@3'	01/23/23	<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
FL01-D@3'	01/23/23	<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-C@3'	01/23/23	7.80	13.6	5.75	0.334
FL01-D@3'	01/23/23	7.70	18.1	9.07	1.38

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) = Benzo(a)fluoranthene

Benzo(k) = Benzo(a)fluoranthene

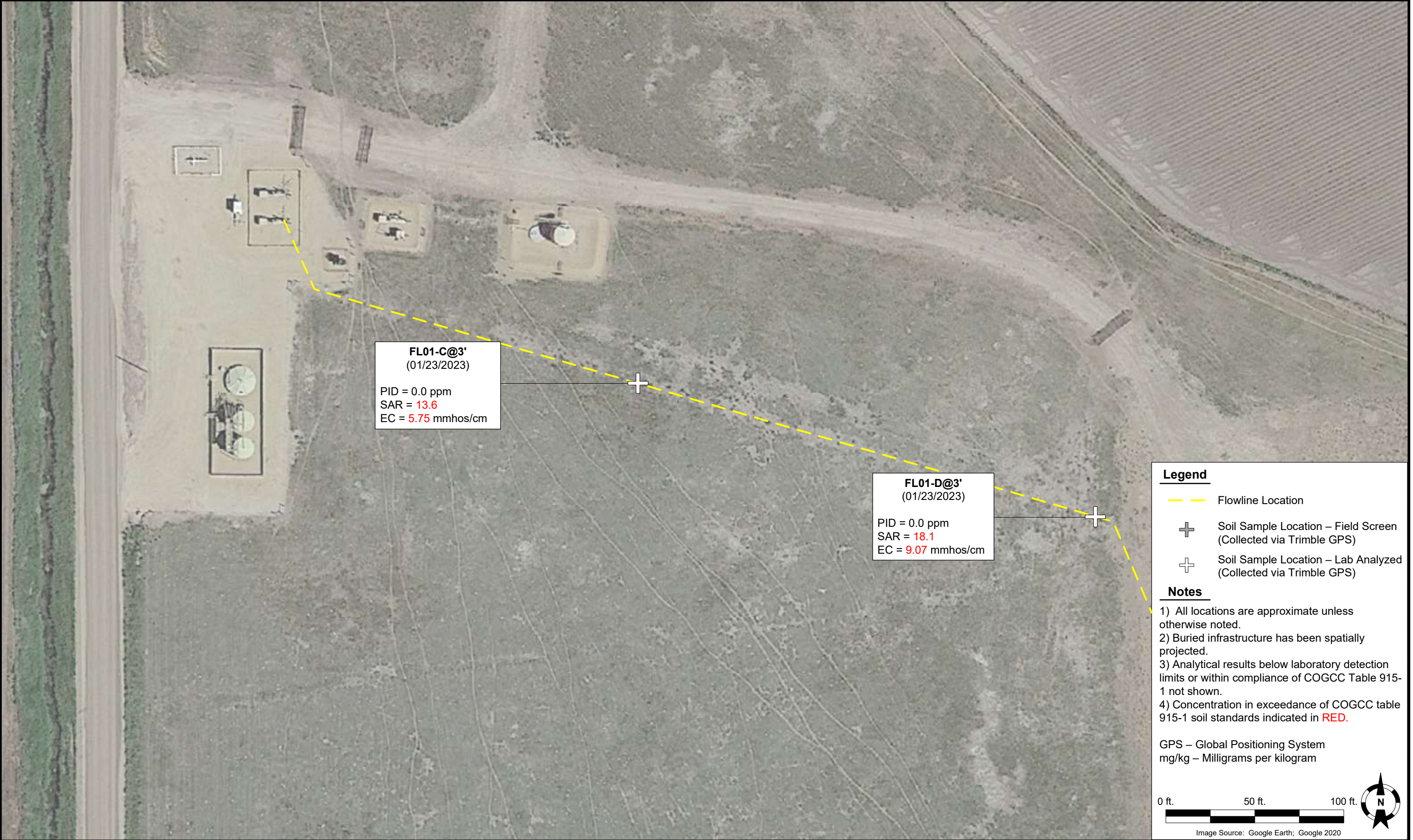
Benzo(a) = Benzopyrene


A,H = Dibenzo(a,h)anthracene

1,2,3-CD = Indeno(1,2,3-cd)pyrene

1-M = 1-methylnaphthalene

2-M = 2-methylnaphthalene



DATE:	2/27/2023	 <div>Tasman Geosciences, Inc. 6855 W 119th Avenue Broomfield, CO 80020</div>	Noble Energy, Inc. – DJ Basin Worries 35-14 FL SWSW, Section 14, Township 4 North, Range 65 West Weld County, Colorado	Flowline Closure & Soil Analytical Results Map (01/23/2023)	FIGURE 1
DESIGNED BY:	JW				
DRAWN BY:	HM				

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 30, 2023

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Noble - Worries 35-14 FL

Work Order #2301392

Enclosed are the results of analyses for samples received by Summit Scientific on 01/23/23 18:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Sheely".

Scott Sheely For Paul Shrewsbury
President



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

Project: Noble - Worries 35-14 FL
Project Number: UWRWE-A2727-ABN
Project Manager: Jacob Whritenour

Reported:
01/30/23 12:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01-C@3'	2301392-01	Soil	01/23/23 12:10	01/23/23 18:00
FL01-D@3'	2301392-02	Soil	01/23/23 13:45	01/23/23 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.

2301392

Page 1 of

Project Manager: Jacob Whritenour Invoice: Cole Moore.

E-Mail: jwhritenour@tasman-geo.com

Project Name: Worries 35-14 FL

Project Number: UWRWE-A2727-AN

Project Number: UWRWE-A2727-AN

					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-q15	TPH-q15	PAH-q15	Boron-HWS	pH, EC, SAR																		- pH, EC, SAR by saturated paste
1	FL01-C@3'	1/23/23	12:10	2			X			X			X	X	X	X	X																		
2	FLM-D@3'	1/23/23	13:45	2			X			X			X	X	X	X	X																		
3																																			
4																																			
5																																			
6																																			
7																																			
8																																			
9																																			
10																																			
Relinquished by: Martin Medeiros <i>Martin Medeiros</i> Tasman's Lock Box					Date/Time: 1/23/23 14:00					Received by: Tasman's Lock Box <i>Tasman's Lock Box</i>					Date/Time: 1/23/23 14:00					Turn Around Time (Check) Same Day _____ 72 hours _____ 24 hours _____ Standard <u>X</u> 48 hours _____								Notes:							
Relinquished by: Tasman's Lock Box <i>Tasman's Lock Box</i>					Date/Time: 1/23/23 1800					Received by: <i>Jul Ben</i>					Date/Time: 1/23/23 1800					Sample Integrity: Temperature Upon Receipt: <u>0.5</u> Samples Intact: <u>Yes</u> No															
Relinquished by:					Date/Time:					Received by:					Date/Time:																				

S₂

Sample Receipt Checklist

S2 Work Order# 2301392Client: Noble/Tasman Client Project ID: Worries 35-14 FLShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☐ ☒ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 0.5 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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>on ice.</u>
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

 Custodian Printed Name

1/13/23
 Date/Time



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

Project: Noble - Worries 35-14 FL
Project Number: UWRWE-A2727-ABN
Project Manager: Jacob Whritenour

Reported:
01/30/23 12:03

FL01-C@3'
2301392-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/23/23 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGA0571	01/24/23	01/25/23	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: **01/23/23 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0501	125 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0394	98.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0418	104 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/23/23 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGA0573	01/24/23	01/25/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/23/23 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	9.76	78.1 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Worries 35-14 FL
Project Number: UWRWE-A2727-ABN
Project Manager: Jacob Whritenour

Reported:
01/30/23 12:03

FL01-C@3'
2301392-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/23/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGA0634	01/26/23	01/26/23	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: **01/23/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0201	60.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0205	61.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.334	0.0100	mg/L	1	BGA0666	01/26/23	01/27/23	EPA 6020B	

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

Date Sampled: **01/23/23 12:10**

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 - Worries 35-14 FL
Project Number: UWRWE-A2727-ABN
Project Manager: Jacob Whritenour

Reported:
01/30/23 12:03

FL01-C@3'
2301392-01 (Soil)

Summit Scientific

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

Calcium	192	0.0666	mg/L dry	1	BGA0589	01/24/23	01/25/23	EPA 6020B
Magnesium	149	0.0666	"	"	"	"	"	"
Sodium	1030	0.0666	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **01/23/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	13.6	0.00100	units	1	BGA0656	01/26/23	01/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	75.1		%	1	BGA0586	01/24/23	01/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.75	0.0100	mmhos/cm	1	BGA0613	01/25/23	01/25/23	EPA 120.1	

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

Date Sampled: **01/23/23 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.80		pH Units	1	BGA0612	01/25/23	01/25/23	EPA 9045D	

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Project: Noble - Worries 35-14 FL
Project Number: UWRWE-A2727-ABN
Project Manager: Jacob Whritenour

Reported:
01/30/23 12:03

FL01-D@3'
2301392-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/23/23 13:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGA0571	01/24/23	01/25/23	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: **01/23/23 13:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0504	126 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0392	98.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0413	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/23/23 13:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGA0573	01/24/23	01/25/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/23/23 13:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.8	94.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Number: UWRWE-A2727-ABN
Project Manager: Jacob Whritenour

Reported:
01/30/23 12:03

FL01-D@3'
2301392-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/23/23 13:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BGA0634	01/26/23	01/26/23	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: **01/23/23 13:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0196	58.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0186	55.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/23 13:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	1.38	0.0100	mg/L	1	BGA0666	01/26/23	01/28/23	EPA 6020B	

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

Date Sampled: **01/23/23 13:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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

Project: Noble - Worries 35-14 FL
Project Number: UWRWE-A2727-ABN
Project Manager: Jacob Whritenour

Reported:
01/30/23 12:03

FL01-D@3'
2301392-02 (Soil)

Summit Scientific

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

Calcium	327	0.0648	mg/L dry	1	BGA0589	01/24/23	01/25/23	EPA 6020B
Magnesium	236	0.0648	"	"	"	"	"	"
Sodium	1760	0.0648	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **01/23/23 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	18.1	0.00100	units	1	BGA0656	01/26/23	01/26/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/23 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.2		%	1	BGA0586	01/24/23	01/24/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/23 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	9.07	0.0100	mmhos/cm	1	BGA0613	01/25/23	01/25/23	EPA 120.1	

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

Date Sampled: **01/23/23 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.70		pH Units	1	BGA0612	01/25/23	01/25/23	EPA 9045D	

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Project: Noble - Worries 35-14 FL
Project Number: UWRWE-A2727-ABN
Project Manager: Jacob Whritenour

Reported:
01/30/23 12:03

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGA0571 - EPA 5030 Soil MS

Blank (BGA0571-BLK1)

Prepared & Analyzed: 01/24/23

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	0.0521		"	0.0400		130	50-150			
Surrogate: Toluene-d8	0.0386		"	0.0400		96.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0415		"	0.0400		104	50-150			

LCS (BGA0571-BS1)

Prepared & Analyzed: 01/24/23

Benzene	0.110	0.0020	mg/kg	0.125		88.0	70-130			
Toluene	0.112	0.0050	"	0.125		89.9	70-130			
Ethylbenzene	0.136	0.0050	"	0.125		109	70-130			
m,p-Xylene	0.266	0.010	"	0.250		106	70-130			
o-Xylene	0.127	0.0050	"	0.125		101	70-130			
1,2,4-Trimethylbenzene	0.143	0.0050	"	0.125		114	70-130			
1,3,5-Trimethylbenzene	0.138	0.0050	"	0.125		111	70-130			
Naphthalene	0.123	0.0038	"	0.125		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0502		"	0.0400		125	50-150			
Surrogate: Toluene-d8	0.0392		"	0.0400		97.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.2	50-150			

Matrix Spike (BGA0571-MS1)

Source: 2301349-10

Prepared & Analyzed: 01/24/23

Benzene	0.110	0.0020	mg/kg	0.125	ND	88.0	70-130			
Toluene	0.112	0.0050	"	0.125	ND	90.0	70-130			
Ethylbenzene	0.135	0.0050	"	0.125	ND	108	70-130			
m,p-Xylene	0.266	0.010	"	0.250	ND	107	70-130			
o-Xylene	0.127	0.0050	"	0.125	ND	102	70-130			
1,2,4-Trimethylbenzene	0.145	0.0050	"	0.125	ND	116	70-130			
1,3,5-Trimethylbenzene	0.140	0.0050	"	0.125	ND	112	70-130			
Naphthalene	0.143	0.0038	"	0.125	ND	114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0544		"	0.0400		136	50-150			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		100	50-150			

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Project: Noble - Worries 35-14 FL
Project Number: UWRWE-A2727-ABN
Project Manager: Jacob Whritenour

Reported:
01/30/23 12:03

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

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

Batch BGA0571 - EPA 5030 Soil MS

Matrix Spike Dup (BGA0571-MSD1)	Source: 2301349-10			Prepared & Analyzed: 01/24/23						
Benzene	0.109	0.0020	mg/kg	0.125	ND	87.1	70-130	1.10	30	
Toluene	0.110	0.0050	"	0.125	ND	88.2	70-130	2.05	30	
Ethylbenzene	0.140	0.0050	"	0.125	ND	112	70-130	3.68	30	
m,p-Xylene	0.266	0.010	"	0.250	ND	106	70-130	0.0901	30	
o-Xylene	0.127	0.0050	"	0.125	ND	102	70-130	0.189	30	
1,2,4-Trimethylbenzene	0.145	0.0050	"	0.125	ND	116	70-130	0.228	30	
1,3,5-Trimethylbenzene	0.142	0.0050	"	0.125	ND	114	70-130	1.90	30	
Naphthalene	0.145	0.0038	"	0.125	ND	116	70-130	1.46	30	
Surrogate: 1,2-Dichloroethane-d4	0.0502		"	0.0400		125	50-150			
Surrogate: Toluene-d8	0.0390		"	0.0400		97.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		99.1	50-150			

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Project: Noble - Worries 35-14 FL
Project Number: UWRWE-A2727-ABN
Project Manager: Jacob Whritenour

Reported:
01/30/23 12:03

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGA0573 - EPA 3550A

Blank (BGA0573-BLK1)

Prepared & Analyzed: 01/24/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	12.1		"	12.5		96.8	30-150			

LCS (BGA0573-BS1)

Prepared & Analyzed: 01/24/23

C10-C28 (DRO)	558	50	mg/kg	500		112	70-130			
Surrogate: o-Terphenyl	13.5		"	12.5		108	30-150			

Matrix Spike (BGA0573-MS1)

Source: 2301386-01

Prepared & Analyzed: 01/24/23

C10-C28 (DRO)	486	50	mg/kg	500	45.8	88.1	70-130			
Surrogate: o-Terphenyl	9.85		"	12.5		78.8	30-150			

Matrix Spike Dup (BGA0573-MSD1)

Source: 2301386-01

Prepared & Analyzed: 01/24/23

C10-C28 (DRO)	466	50	mg/kg	500	45.8	84.1	70-130	4.18	20	
Surrogate: o-Terphenyl	8.80		"	12.5		70.4	30-150			

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Project: Noble - Worries 35-14 FL
Project Number: UWRWE-A2727-ABN
Project Manager: Jacob Whritenour

Reported:
01/30/23 12:03

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGA0634 - EPA 5030 Soil MS

Blank (BGA0634-BLK1)

Prepared & Analyzed: 01/26/23

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	0.0282		"	0.0333		84.6	40-150			
Surrogate: Fluoranthene-d10	0.0283		"	0.0333		85.0	40-150			

LCS (BGA0634-BS1)

Prepared & Analyzed: 01/26/23

Acenaphthene	0.0293	0.00500	mg/kg	0.0333		87.9	31-137			
Anthracene	0.0292	0.00500	"	0.0333		87.7	30-120			
Benzo (a) anthracene	0.0282	0.00500	"	0.0333		84.7	30-120			
Benzo (a) pyrene	0.0276	0.00500	"	0.0333		82.8	30-120			
Benzo (b) fluoranthene	0.0271	0.00500	"	0.0333		81.3	30-120			
Benzo (k) fluoranthene	0.0282	0.00500	"	0.0333		84.6	30-120			
Chrysene	0.0298	0.00500	"	0.0333		89.3	30-120			
Dibenz (a,h) anthracene	0.0250	0.00500	"	0.0333		75.0	30-120			
Fluoranthene	0.0284	0.00500	"	0.0333		85.2	30-120			
Fluorene	0.0292	0.00500	"	0.0333		87.6	30-120			
Indeno (1,2,3-cd) pyrene	0.0247	0.00500	"	0.0333		74.1	30-120			
Pyrene	0.0303	0.00500	"	0.0333		90.8	35-142			
1-Methylnaphthalene	0.0310	0.00500	"	0.0333		92.9	35-142			
2-Methylnaphthalene	0.0284	0.00500	"	0.0333		85.3	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0280		"	0.0333		83.9	40-150			
Surrogate: Fluoranthene-d10	0.0282		"	0.0333		84.7	40-150			

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

Project: Noble - Worries 35-14 FL
Project Number: UWRWE-A2727-ABN
Project Manager: Jacob Whritenour

Reported:
01/30/23 12:03

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGA0634 - EPA 5030 Soil MS

Matrix Spike (BGA0634-MS1)

Source: 2301446-01

Prepared & Analyzed: 01/26/23

Acenaphthene	0.0223	0.00500	mg/kg	0.0333	ND	66.9	31-137		
Anthracene	0.0220	0.00500	"	0.0333	ND	66.1	30-120		
Benzo (a) anthracene	0.0225	0.00500	"	0.0333	ND	67.5	30-120		
Benzo (a) pyrene	0.0209	0.00500	"	0.0333	ND	62.7	30-120		
Benzo (b) fluoranthene	0.0209	0.00500	"	0.0333	ND	62.8	30-120		
Benzo (k) fluoranthene	0.0210	0.00500	"	0.0333	ND	63.1	30-120		
Chrysene	0.0219	0.00500	"	0.0333	ND	65.6	30-120		
Dibenz (a,h) anthracene	0.0180	0.00500	"	0.0333	ND	53.9	30-120		
Fluoranthene	0.0221	0.00500	"	0.0333	ND	66.2	30-120		
Fluorene	0.0230	0.00500	"	0.0333	ND	68.9	30-120		
Indeno (1,2,3-cd) pyrene	0.0177	0.00500	"	0.0333	ND	53.1	30-120		
Pyrene	0.0236	0.00500	"	0.0333	ND	70.8	35-142		
1-Methylnaphthalene	0.0248	0.00500	"	0.0333	ND	74.3	15-130		
2-Methylnaphthalene	0.0236	0.00500	"	0.0333	ND	70.6	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0227		"	0.0333		68.0	40-150		
Surrogate: Fluoranthene-d10	0.0232		"	0.0333		69.7	40-150		

Matrix Spike Dup (BGA0634-MSD1)

Source: 2301446-01

Prepared & Analyzed: 01/26/23

Acenaphthene	0.0222	0.00500	mg/kg	0.0333	ND	66.7	31-137	0.340	30
Anthracene	0.0189	0.00500	"	0.0333	ND	56.6	30-120	15.4	30
Benzo (a) anthracene	0.0208	0.00500	"	0.0333	ND	62.3	30-120	7.95	30
Benzo (a) pyrene	0.0194	0.00500	"	0.0333	ND	58.3	30-120	7.33	30
Benzo (b) fluoranthene	0.0190	0.00500	"	0.0333	ND	56.9	30-120	9.85	30
Benzo (k) fluoranthene	0.0191	0.00500	"	0.0333	ND	57.4	30-120	9.52	30
Chrysene	0.0203	0.00500	"	0.0333	ND	60.9	30-120	7.40	30
Dibenz (a,h) anthracene	0.0181	0.00500	"	0.0333	ND	54.4	30-120	1.01	30
Fluoranthene	0.0201	0.00500	"	0.0333	ND	60.2	30-120	9.43	30
Fluorene	0.0235	0.00500	"	0.0333	ND	70.5	30-120	2.28	30
Indeno (1,2,3-cd) pyrene	0.0177	0.00500	"	0.0333	ND	53.1	30-120	0.0283	30
Pyrene	0.0212	0.00500	"	0.0333	ND	63.5	35-142	10.9	30
1-Methylnaphthalene	0.0276	0.00500	"	0.0333	ND	82.7	15-130	10.6	50
2-Methylnaphthalene	0.0225	0.00500	"	0.0333	ND	67.5	15-130	4.58	50
Surrogate: 2-Methylnaphthalene-d10	0.0222		"	0.0333		66.7	40-150		
Surrogate: Fluoranthene-d10	0.0205		"	0.0333		61.4	40-150		

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

Project: Noble - Worries 35-14 FL
Project Number: UWRWE-A2727-ABN
Project Manager: Jacob Whritenour

Reported:
01/30/23 12:03

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

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

Batch BGA0666 - EPA 3050B

Blank (BGA0666-BLK1)

Prepared: 01/26/23 Analyzed: 01/27/23

Boron ND 0.0100 mg/L

LCS (BGA0666-BS1)

Prepared: 01/26/23 Analyzed: 01/27/23

Boron 5.67 0.0100 mg/L 5.00 113 80-120

Duplicate (BGA0666-DUP1)

Source: 2301392-01

Prepared: 01/26/23 Analyzed: 01/27/23

Boron 0.336 0.0100 mg/L 0.334 0.588 20

Matrix Spike (BGA0666-MS1)

Source: 2301392-01

Prepared: 01/26/23 Analyzed: 01/28/23

Boron 5.92 0.0100 mg/L 5.00 0.334 112 75-125

Matrix Spike Dup (BGA0666-MSD1)

Source: 2301392-01

Prepared: 01/26/23 Analyzed: 01/28/23

Boron 6.04 0.0100 mg/L 5.00 0.334 114 75-125 2.09 25

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Broomfield CO, 80020

Project: Noble - Worries 35-14 FL
Project Number: UWRWE-A2727-ABN
Project Manager: Jacob Whritenour

Reported:
01/30/23 12:03

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

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

Batch BGA0589 - General Preparation

Blank (BGA0589-BLK1)

Prepared: 01/24/23 Analyzed: 01/25/23

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

LCS (BGA0589-BS1)

Prepared: 01/24/23 Analyzed: 01/25/23

Calcium	5.72	0.0500	mg/L wet	5.00	114	70-130
Magnesium	5.59	0.0500	"	5.00	112	70-130
Sodium	5.30	0.0500	"	5.00	106	70-130

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Worries 35-14 FL

Project Number: UWRWE-A2727-ABN

Project Manager: Jacob Whritenour

Reported:
01/30/23 12:03

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

Summit Scientific

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

Batch BGA0586 - General Preparation

Duplicate (BGA0586-DUP1)

Source: 2301389-01

Prepared & Analyzed: 01/24/23

% Solids	83.3	%	83.8	0.633	20
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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Worries 35-14 FL
Project Number: UWRWE-A2727-ABN
Project Manager: Jacob Whritenour

Reported:
01/30/23 12:03

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

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

Batch BGA0613 - General Preparation

Blank (BGA0613-BLK1)

Prepared & Analyzed: 01/25/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGA0613-BS1)

Prepared & Analyzed: 01/25/23

Specific Conductance (EC) 0.150 0.0100 mmhos/cm 0.150 99.9 95-105

Duplicate (BGA0613-DUP1)

Source: 2301278-16

Prepared & Analyzed: 01/25/23

Specific Conductance (EC) 0.638 0.0100 mmhos/cm 0.662 3.67 20

Summit Scientific

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

Project: Noble - Worries 35-14 FL
Project Number: UWRWE-A2727-ABN
Project Manager: Jacob Whritenour

Reported:
01/30/23 12:03

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

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

Batch BGA0612 - General Preparation

LCS (BGA0612-BS1)

Prepared & Analyzed: 01/25/23

pH	9.05	pH Units	9.18	98.6	95-105
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Duplicate (BGA0612-DUP1)

Source: 2301383-02

Prepared & Analyzed: 01/25/23

pH	7.58	pH Units	7.64	0.788	20
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Summit Scientific

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

Project: Noble - Worries 35-14 FL

Project Number: UWRWE-A2727-ABN
Project Manager: Jacob Whritenour

Reported:
01/30/23 12:03

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