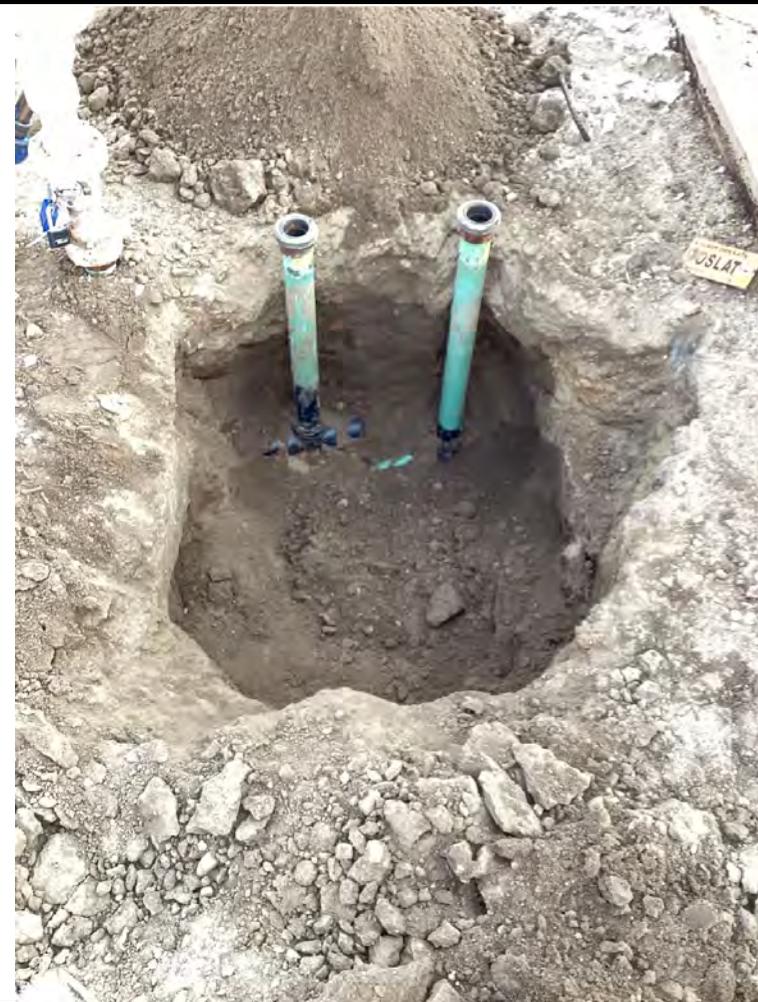


Flowline Closure Checklist

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: UPRC 07-10Q		Date: 12/15/2022			Remediation Project #: 24036			
Associated Wells:		Age of Site:			Number of Photos Attached: 6			
Starting point: (GPS coordinates and descriptions) 40.149219, -104.59055								
Starting point (GPS coordinates and descriptions) 40.149489, -104.590278								
USCS Soil Type: Well Graded Sand - SW					Estimated Depth to Groundwater: >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	5'							
Age								
Length	125'							
Construction Material	Steel							
Were flowlines pulled?	Partially ially							
Visual Integrity of lines	Good							
Visual impacts if trenched	NA							
PID Readings if trenched	NA							
Sample taken? Location/Sample ID#	Yes, see below							
Photo Number(s)	1 - 3							
Other observations regarding on loction flowlines: Flowline abandoned in place from FL01-C@3' to FL01-B@3'. Flowline entrenched with HP Farms Y 7-15JI at FL01-B@3'								
Summary								
Was impacted soil identified? No Yes - less than 10 cubic yards Yes - more than 10 cubic yards								
Total number of samples field screened: 3					Total number of samples collected: 3			
Highest PID Reading: 4.1					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-A@		Equipment Type: Flowline			Equipment ID: FL01-B@3'		Equipment Type:		
Material: Steel		Volume:	Contents: Oil/Gas/Water			Material: Steel		Volume:	Contents: Oil/Gas/Water
Notes/Conditions:					Notes/Conditions: Flow line entrenched with HP farms Y 7-15JL. UPRC 07-10Q is on the left. Flowline abandoned in place from FL01-B@3' to FL01-C@5'				

Photographic Log


Equipment ID: FL01-C@5'		Equipment Type:		Equipment ID:		Equipment Type:	
Material:	Volume:	Contents:		Material:	Volume:	Contents:	
Notes/Conditions: Flowline abandoned in place from FL01-B@3' to FL01-C@5'				Notes/Conditions:			

TABLE 1
SOIL SAMPLE LOCATIONS
NOBLE ENERGY, INC. - UPRC 07-10Q

Soil Sample ID	Date	PID (ppm)	Visual	Olfactory	Sample Type (Grab/Lab)	Latitude ¹	Longitude	PDOP
FL01-A@3'	12/15/22	0.1	No Staining	No Odor	Lab	40.149240	-104.590561	1.1
FL01-B@3'	12/15/22	4.1	No Staining	No Odor	Lab	40.149502	-104.590284	1.1
FL01-C@5'	12/15/22	0.1	No Staining	No Odor	Grab	40.149424	-104.590431	1.2

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. - UPRC 07-10Q**

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 SSL²		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'	12/15/22	<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-B@3'	12/15/22	<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 SSL²		6 - 8.3	<6	<4mmhos/cm	2
FL01-A@3'	12/15/22	7.80	0.135	0.314	0.154
FL01-B@3'	12/15/22	7.89	0.0792	0.203	0.172

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 = Millimhos 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

Benzo(a) = Benzoanthracene

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



Legend

- Flowline Location
- ⊕ Soil Sample Location – Field Screen (Collected via Trimble GPS)
- ⊕ Soil Sample Location – Lab Analyzed (Collected via Trimble GPS)

Notes

- 1) All locations are approximate unless otherwise noted.
- 2) Buried infrastructure has been spatially projected.
- 3) Analytical results below laboratory detection limits or within compliance of COGCC Table 915-1 not shown.
- 4) Concentration in exceedance of COGCC table 915-1 soil standards indicated in **RED**.

GPS – Global Positioning System
 mg/kg – Milligrams per kilogram

0 ft. 25 ft. 50 ft.

Image Source: Google Earth; Google 2020

DATE:	1/23/2023
DESIGNED BY:	JW
DRAWN BY:	DG



TASMAN
 GEOSCIENCES

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

Noble Energy, Inc. – DJ Basin
UPRC 7-10Q
 NWSE, Section 7, Township 2 North, Range 64 West
 Weld County, Colorado

Flowline Closure & Soil
 Analytical Results Map
 (12/15/2022)

FIGURE
 1

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 27, 2022

Jacob Whritenour
Tasman Geosciences
6855 W. 119th Ave.
Broomfield, CO 80020
RE: Noble - UPRC 07-10Q
Work Order #2212314

Enclosed are the results of analyses for samples received by Summit Scientific on 12/15/22 17:40. 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 - UPRC 07-10Q
Project Number: UWRWE-A2701-ABN
Project Manager: Jacob Whritenour

Reported:
12/27/22 11:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01-A@3'	2212314-01	Soil	12/15/22 12:31	12/15/22 17:40
FL01-B@3'	2212314-02	Soil	12/15/22 11:29	12/15/22 17:40

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.

S₂

Sample Receipt Checklist

S2 Work Order# 0212314

Client: Abbie/Tasman Client Project ID: OPRC 07-100

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

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

Temp (°C) 6.4 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"/>	on ICE
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 type="checkbox"/>	<input checked="" 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.

[Signature]
Custodian Printed Name

18-15-22
Date/Time



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

Project: Noble - UPRC 07-10Q
Project Number: UWRWE-A2701-ABN
Project Manager: Jacob Whritenour

Reported:
12/27/22 11:15

FL01-A@3'
2212314-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/15/22 12:31**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFL0470	12/19/22	12/19/22	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: **12/15/22 12:31**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0396	99.1 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0383	95.8 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/15/22 12:31**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFL0469	12/19/22	12/19/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **12/15/22 12:31**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	15.3	123 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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.



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

Project: Noble - UPRC 07-10Q
Project Number: UWRWE-A2701-ABN
Project Manager: Jacob Whritenour

Reported:
12/27/22 11:15

FL01-A@3'
2212314-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/15/22 12:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0414	12/16/22	12/17/22	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: **12/15/22 12:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0197	59.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0239	71.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/15/22 12:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.154	0.0100	mg/L	1	BFL0457	12/18/22	12/20/22	EPA 6020B	

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

Date Sampled: **12/15/22 12:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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

Project: Noble - UPRC 07-10Q
Project Number: UWRWE-A2701-ABN
Project Manager: Jacob Whritenour

Reported:
12/27/22 11:15

FL01-A@3'
2212314-01 (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	40.7	0.0535	mg/L dry	1	BFL0522	12/20/22	12/22/22	EPA 6020B	
Magnesium	6.94	0.0535	"	"	"	"	"	"	
Sodium	3.54	0.0535	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/15/22 12:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.135	0.00100	units	1	BFL0608	12/22/22	12/22/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/15/22 12:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.5		%	1	BFL0486	12/19/22	12/20/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/15/22 12:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.314	0.0100	mmhos/cm	1	BFL0557	12/21/22	12/21/22	EPA 120.1	

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

Date Sampled: **12/15/22 12:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.80		pH Units	1	BFL0556	12/21/22	12/21/22	EPA 9045D	

Summit Scientific

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

Project: Noble - UPRC 07-10Q
Project Number: UWRWE-A2701-ABN
Project Manager: Jacob Whritenour

Reported:
12/27/22 11:15

FL01-B@3'
2212314-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/15/22 11:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0470	12/19/22	12/19/22	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: **12/15/22 11:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0402	100 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0378	94.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/15/22 11:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0469	12/19/22	12/19/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/15/22 11:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.3	98.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Noble - UPRC 07-10Q
Project Number: UWRWE-A2701-ABN
Project Manager: Jacob Whritenour

Reported:
12/27/22 11:15

FL01-B@3'
2212314-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/15/22 11:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0414	12/16/22	12/17/22	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: **12/15/22 11:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0238	71.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0246	73.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/15/22 11:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.172	0.0100	mg/L	1	BFL0457	12/18/22	12/20/22	EPA 6020B	

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

Date Sampled: **12/15/22 11:29**

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 - UPRC 07-10Q
Project Number: UWRWE-A2701-ABN
Project Manager: Jacob Whritenour

Reported:
12/27/22 11:15

FL01-B@3'
2212314-02 (Soil)

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	59.3	0.0532	mg/L dry	1	BFL0522	12/20/22	12/22/22	EPA 6020B	
Magnesium	9.85	0.0532	"	"	"	"	"	"	
Sodium	2.50	0.0532	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/15/22 11:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0792	0.00100	units	1	BFL0608	12/22/22	12/22/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/15/22 11:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.0		%	1	BFL0486	12/19/22	12/20/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/15/22 11:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.203	0.0100	mmhos/cm	1	BFL0557	12/21/22	12/21/22	EPA 120.1	

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

Date Sampled: **12/15/22 11:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.89		pH Units	1	BFL0556	12/21/22	12/21/22	EPA 9045D	

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Broomfield CO, 80020

Project: Noble - UPRC 07-10Q
Project Number: UWRWE-A2701-ABN
Project Manager: Jacob Whritenour

Reported:
12/27/22 11:15

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFL0470 - EPA 5030 Soil MS

Blank (BFL0470-BLK1)

Prepared & Analyzed: 12/19/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0392		"	0.0400		98.0		50-150		
<i>Surrogate: Toluene-d8</i>	0.0403		"	0.0400		101		50-150		
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0382		"	0.0400		95.5		50-150		

LCS (BFL0470-BS1)

Prepared & Analyzed: 12/19/22

Benzene	0.0643	0.0020	mg/kg	0.0750		85.7		70-130		
Toluene	0.0647	0.0050	"	0.0750		86.2		70-130		
Ethylbenzene	0.0596	0.0050	"	0.0750		79.4		70-130		
m,p-Xylene	0.121	0.010	"	0.150		80.5		70-130		
o-Xylene	0.0577	0.0050	"	0.0750		77.0		70-130		
1,2,4-Trimethylbenzene	0.0604	0.0050	"	0.0750		80.6		70-130		
1,3,5-Trimethylbenzene	0.0620	0.0050	"	0.0750		82.7		70-130		
Naphthalene	0.0733	0.0038	"	0.0750		97.7		70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0383		"	0.0400		95.8		50-150		
<i>Surrogate: Toluene-d8</i>	0.0409		"	0.0400		102		50-150		
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0410		"	0.0400		103		50-150		

Matrix Spike (BFL0470-MS1)

Source: 2212313-01

Prepared & Analyzed: 12/19/22

Benzene	0.0659	0.0020	mg/kg	0.0750	ND	87.9		70-130		
Toluene	0.0683	0.0050	"	0.0750	ND	91.0		70-130		
Ethylbenzene	0.0593	0.0050	"	0.0750	ND	79.0		70-130		
m,p-Xylene	0.121	0.010	"	0.150	ND	80.5		70-130		
o-Xylene	0.0581	0.0050	"	0.0750	ND	77.5		70-130		
1,2,4-Trimethylbenzene	0.0628	0.0050	"	0.0750	ND	83.7		70-130		
1,3,5-Trimethylbenzene	0.0636	0.0050	"	0.0750	ND	84.8		70-130		
Naphthalene	0.0816	0.0038	"	0.0750	ND	109		70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0434		"	0.0400		108		50-150		
<i>Surrogate: Toluene-d8</i>	0.0423		"	0.0400		106		50-150		
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0424		"	0.0400		106		50-150		

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Project: Noble - UPRC 07-10Q
Project Number: UWRWE-A2701-ABN
Project Manager: Jacob Whritenour

Reported:
12/27/22 11:15

Volatile Organic Compounds by EPA Method 8260B - Quality Control
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Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BFL0470 - EPA 5030 Soil MS

Matrix Spike Dup (BFL0470-MSD1)	Source: 2212313-01			Prepared & Analyzed: 12/19/22						
Benzene	0.0676	0.0020	mg/kg	0.0750	ND	90.1	70-130	2.43	30	
Toluene	0.0691	0.0050	"	0.0750	ND	92.2	70-130	1.22	30	
Ethylbenzene	0.0618	0.0050	"	0.0750	ND	82.4	70-130	4.21	30	
m,p-Xylene	0.127	0.010	"	0.150	ND	84.4	70-130	4.73	30	
o-Xylene	0.0608	0.0050	"	0.0750	ND	81.1	70-130	4.54	30	
1,2,4-Trimethylbenzene	0.0645	0.0050	"	0.0750	ND	86.0	70-130	2.69	30	
1,3,5-Trimethylbenzene	0.0659	0.0050	"	0.0750	ND	87.9	70-130	3.57	30	
Naphthalene	0.0787	0.0038	"	0.0750	ND	105	70-130	3.63	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0428</i>		<i>"</i>	<i>0.0400</i>		<i>107</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0415</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0430</i>		<i>"</i>	<i>0.0400</i>		<i>108</i>	<i>50-150</i>			

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Project: Noble - UPRC 07-10Q
Project Number: UWRWE-A2701-ABN
Project Manager: Jacob Whritenour

Reported:
12/27/22 11:15

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFL0469 - EPA 3550A

Blank (BFL0469-BLK1)

Prepared & Analyzed: 12/19/22

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	14.1		"	12.5		113	30-150				

LCS (BFL0469-BS1)

Prepared & Analyzed: 12/19/22

C10-C28 (DRO)	394	50	mg/kg	500		78.7	70-130				
Surrogate: <i>o</i> -Terphenyl	15.0		"	12.5		120	30-150				

Matrix Spike (BFL0469-MS1)

Source: 2212313-01

Prepared & Analyzed: 12/19/22

C10-C28 (DRO)	465	50	mg/kg	500	13.5	90.4	70-130				
Surrogate: <i>o</i> -Terphenyl	15.6		"	12.5		125	30-150				

Matrix Spike Dup (BFL0469-MSD1)

Source: 2212313-01

Prepared & Analyzed: 12/19/22

C10-C28 (DRO)	494	50	mg/kg	500	13.5	96.0	70-130	5.91	20		
Surrogate: <i>o</i> -Terphenyl	17.9		"	12.5		143	30-150				

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Project: Noble - UPRC 07-10Q
Project Number: UWRWE-A2701-ABN
Project Manager: Jacob Whritenour

Reported:
12/27/22 11:15

PAH by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch BFL0414 - EPA 5030 Soil MS

Blank (BFL0414-BLK1)

Prepared: 12/16/22 Analyzed: 12/17/22

Acenaphthene	ND	0.00500	mg/kg								
Anthracene	ND	0.00500	"								
Benzo (a) anthracene	ND	0.00500	"								
Benzo (a) pyrene	ND	0.00500	"								
Benzo (b) fluoranthene	ND	0.00500	"								
Benzo (k) fluoranthene	ND	0.00500	"								
Chrysene	ND	0.00500	"								
Dibenz (a,h) anthracene	ND	0.00500	"								
Fluoranthene	ND	0.00500	"								
Fluorene	ND	0.00500	"								
Indeno (1,2,3-cd) pyrene	ND	0.00500	"								
Pyrene	ND	0.00500	"								
1-Methylnaphthalene	ND	0.00500	"								
2-Methylnaphthalene	ND	0.00500	"								
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0303</i>		"	<i>0.0333</i>		<i>90.8</i>		<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0306</i>		"	<i>0.0333</i>		<i>91.9</i>		<i>40-150</i>			

LCS (BFL0414-BS1)

Prepared: 12/16/22 Analyzed: 12/17/22

Acenaphthene	0.0312	0.00500	mg/kg	0.0333	93.5	31-137
Anthracene	0.0319	0.00500	"	0.0333	95.7	30-120
Benzo (a) anthracene	0.0319	0.00500	"	0.0333	95.6	30-120
Benzo (a) pyrene	0.0301	0.00500	"	0.0333	90.4	30-120
Benzo (b) fluoranthene	0.0294	0.00500	"	0.0333	88.1	30-120
Benzo (k) fluoranthene	0.0293	0.00500	"	0.0333	87.8	30-120
Chrysene	0.0322	0.00500	"	0.0333	96.6	30-120
Dibenz (a,h) anthracene	0.0295	0.00500	"	0.0333	88.5	30-120
Fluoranthene	0.0311	0.00500	"	0.0333	93.3	30-120
Fluorene	0.0304	0.00500	"	0.0333	91.2	30-120
Indeno (1,2,3-cd) pyrene	0.0340	0.00500	"	0.0333	102	30-120
Pyrene	0.0327	0.00500	"	0.0333	98.1	35-142
1-Methylnaphthalene	0.0359	0.00500	"	0.0333	108	35-142
2-Methylnaphthalene	0.0315	0.00500	"	0.0333	94.4	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0316</i>		"	<i>0.0333</i>	<i>94.8</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0320</i>		"	<i>0.0333</i>	<i>96.1</i>	<i>40-150</i>

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Broomfield CO, 80020

Project: Noble - UPRC 07-10Q
Project Number: UWRWE-A2701-ABN
Project Manager: Jacob Whritenour

Reported:
12/27/22 11:15

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFL0414 - EPA 5030 Soil MS

Matrix Spike (BFL0414-MS1)	Source: 2212264-01			Prepared: 12/16/22 Analyzed: 12/17/22						
Acenaphthene	0.0168	0.00500	mg/kg	0.0333	ND	50.5	31-137			
Anthracene	0.0176	0.00500	"	0.0333	ND	52.9	30-120			
Benzo (a) anthracene	0.0177	0.00500	"	0.0333	ND	53.1	30-120			
Benzo (a) pyrene	0.0161	0.00500	"	0.0333	ND	48.4	30-120			
Benzo (b) fluoranthene	0.0158	0.00500	"	0.0333	ND	47.4	30-120			
Benzo (k) fluoranthene	0.0152	0.00500	"	0.0333	ND	45.6	30-120			
Chrysene	0.0174	0.00500	"	0.0333	ND	52.1	30-120			
Dibenz (a,h) anthracene	0.0159	0.00500	"	0.0333	ND	47.6	30-120			
Fluoranthene	0.0182	0.00500	"	0.0333	ND	54.5	30-120			
Fluorene	0.0170	0.00500	"	0.0333	ND	51.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0176	0.00500	"	0.0333	ND	52.8	30-120			
Pyrene	0.0178	0.00500	"	0.0333	ND	53.5	35-142			
1-Methylnaphthalene	0.0196	0.00500	"	0.0333	ND	58.8	15-130			
2-Methylnaphthalene	0.0211	0.00500	"	0.0333	ND	63.3	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0197</i>		<i>"</i>	<i>0.0333</i>		<i>59.1</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0192</i>		<i>"</i>	<i>0.0333</i>		<i>57.5</i>	<i>40-150</i>			

Matrix Spike Dup (BFL0414-MSD1)	Source: 2212264-01			Prepared: 12/16/22 Analyzed: 12/17/22						
Acenaphthene	0.0160	0.00500	mg/kg	0.0333	ND	48.1	31-137	4.70	30	
Anthracene	0.0156	0.00500	"	0.0333	ND	46.8	30-120	12.3	30	
Benzo (a) anthracene	0.0168	0.00500	"	0.0333	ND	50.3	30-120	5.31	30	
Benzo (a) pyrene	0.0154	0.00500	"	0.0333	ND	46.1	30-120	4.88	30	
Benzo (b) fluoranthene	0.0152	0.00500	"	0.0333	ND	45.6	30-120	3.93	30	
Benzo (k) fluoranthene	0.0145	0.00500	"	0.0333	ND	43.4	30-120	4.94	30	
Chrysene	0.0165	0.00500	"	0.0333	ND	49.6	30-120	5.03	30	
Dibenz (a,h) anthracene	0.0149	0.00500	"	0.0333	ND	44.6	30-120	6.42	30	
Fluoranthene	0.0170	0.00500	"	0.0333	ND	50.9	30-120	6.85	30	
Fluorene	0.0164	0.00500	"	0.0333	ND	49.3	30-120	3.67	30	
Indeno (1,2,3-cd) pyrene	0.0173	0.00500	"	0.0333	ND	51.9	30-120	1.67	30	
Pyrene	0.0167	0.00500	"	0.0333	ND	50.1	35-142	6.58	30	
1-Methylnaphthalene	0.0185	0.00500	"	0.0333	ND	55.6	15-130	5.46	50	
2-Methylnaphthalene	0.0201	0.00500	"	0.0333	ND	60.3	15-130	4.80	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0172</i>		<i>"</i>	<i>0.0333</i>		<i>51.6</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0169</i>		<i>"</i>	<i>0.0333</i>		<i>50.6</i>	<i>40-150</i>			

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Project: Noble - UPRC 07-10Q
Project Number: UWRWE-A2701-ABN
Project Manager: Jacob Whritenour

Reported:
12/27/22 11:15

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

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

Batch BFL0457 - EPA 3050B

Blank (BFL0457-BLK1)

Prepared: 12/18/22 Analyzed: 12/20/22

Boron ND 0.0100 mg/L

LCS (BFL0457-BS1)

Prepared: 12/18/22 Analyzed: 12/20/22

Boron 4.42 0.0100 mg/L 5.00 88.3 80-120

Duplicate (BFL0457-DUP1)

Source: 2212314-01

Prepared: 12/18/22 Analyzed: 12/20/22

Boron 0.142 0.0100 mg/L 0.154 7.80 20

Matrix Spike (BFL0457-MS1)

Source: 2212314-01

Prepared: 12/18/22 Analyzed: 12/20/22

Boron 4.06 0.0100 mg/L 5.00 0.154 78.1 75-125

Matrix Spike Dup (BFL0457-MSD1)

Source: 2212314-01

Prepared: 12/18/22 Analyzed: 12/20/22

Boron 4.10 0.0100 mg/L 5.00 0.154 78.9 75-125 0.944 25

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Project: Noble - UPRC 07-10Q
Project Number: UWRWE-A2701-ABN
Project Manager: Jacob Whritenour

Reported:
12/27/22 11:15

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

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

Batch BFL0522 - General Preparation

Blank (BFL0522-BLK1)

Prepared: 12/20/22 Analyzed: 12/22/22

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

LCS (BFL0522-BS1)

Prepared: 12/20/22 Analyzed: 12/22/22

Calcium	4.49	0.0500	mg/L wet	5.00	89.9	70-130				
Magnesium	4.15	0.0500	"	5.00	83.1	70-130				
Sodium	4.44	0.0500	"	5.00	88.8	70-130				

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 Project Manager: Jacob Whritenour

Reported:
 12/27/22 11:15

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

Summit Scientific

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

Batch BFL0486 - General Preparation

Duplicate (BFL0486-DUP1)	Source: 2212313-01		Prepared: 12/19/22 Analyzed: 12/20/22		
% Solids	99.8	%	89.6	10.8	20

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Project: Noble - UPRC 07-10Q
Project Number: UWRWE-A2701-ABN
Project Manager: Jacob Whritenour

Reported:
12/27/22 11:15

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

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

Batch BFL0557 - General Preparation

Blank (BFL0557-BLK1)

Prepared & Analyzed: 12/21/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFL0557-BS1)

Prepared & Analyzed: 12/21/22

Specific Conductance (EC) 0.146 0.0100 mmhos/cm 0.150 97.5 95-105

Duplicate (BFL0557-DUP1)

Source: 2212313-01

Prepared & Analyzed: 12/21/22

Specific Conductance (EC) 0.245 0.0100 mmhos/cm 0.253 3.21 20

Summit Scientific

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Broomfield CO, 80020

Project: Noble - UPRC 07-10Q
Project Number: UWRWE-A2701-ABN
Project Manager: Jacob Whritenour

Reported:
12/27/22 11:15

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

Summit Scientific

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

Batch BFL0556 - General Preparation

LCS (BFL0556-BS1)

Prepared & Analyzed: 12/21/22

pH 9.13 pH Units 9.18 99.5 95-105

Duplicate (BFL0556-DUP1)

Source: 2212313-01

Prepared & Analyzed: 12/21/22

pH 7.96 pH Units 8.15 2.36 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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Project: Noble - UPRC 07-10Q
Project Number: UWRWE-A2701-ABN
Project Manager: Jacob Whritenour

Reported:
12/27/22 11:15

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