



Wellhead Closure Checklist							
COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form							
Additional attachments (optional):		Pit Closure		Tank Battery Closure		Flowline Closure	Partially Buried Vault Closure
Site Name & COGCC Facility Number: McClellan 03-35		Date: 12/1/2021					Remediation Project #: 19606
Associated Wells:		Age of Site:					Number of Photos Attached: 9
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)						40.3378870, -104.654510	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)							
Good condition - no visible signs of erosion, corrosion, or contamination							
USCS Soil Type: SW - Well graded sand				Estimated Depth to Groundwater: 6'			
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							
Wellhead(s)							
Well API	05-123-24833						
Age							
Condition of surface around wellhead	good						
PID Readings	0.0-1.7						
Condition of subsurface (staining present)	good - no staining present						
PID Readings	0.0-1.7						
Sample taken? Location Sample ID#	see below						
Photo Number(s)	1-9						
Other observations regarding wellheads: One sample was taken at each of the four sidewalls (SS01-SS04) @ 2.5'. One sample was taken from the base of the wellhead excavation (FS01) @6'. Two flowline samples were taken, one at the wellhead (FL01-A) and one at the separator (FL01-B). Two background samples were taken (BG01) and 4' and 6'.							
Summary							
Was impacted soil identified? No Yes - less than 10 cubic yards Yes - more than 10 cubic yards							
Total number of samples field screened: 9				Total number of samples collected: 9			
Highest PID Reading: 1.7				Total number of samples submitted to lab for analysis: 5			
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

					
<b>Equipment ID:</b> SS01 @2.5'		<b>Equipment Type:</b> Wellhead		<b>Equipment ID:</b> SS02 @2.5'	
<b>Material:</b> Steel	<b>Volume:</b>	<b>Contents:</b> Oil/Gas/Water	<b>Material:</b> Steel	<b>Volume:</b>	<b>Contents:</b> Oil/Gas/Water
<b>Notes/Conditions:</b> Sidewall sample SS01 @2.5'.			<b>Notes/Conditions:</b> Sidewall sample SS02 @2.5'.		







**Photographic Log**

					
<b>Equipment ID:</b> SS03@2.5		<b>Equipment Type:</b> Wellhead		<b>Equipment ID:</b> SS04@2.5	
<b>Material:</b> Steel	<b>Volume:</b>	<b>Contents:</b> Oil/Gas/Water		<b>Material:</b> Steel	<b>Volume:</b>
<b>Notes/Conditions:</b> Sidewall sample SS03@2.5'.			<b>Notes/Conditions:</b> Sidewall sample SS04@2.5'.		



## Photographic Log

							
<b>Equipment ID:</b> FS01 @6		<b>Equipment Type:</b> Wellhead		<b>Equipment ID:</b> FL01-A@4		<b>Equipment Type:</b> Flowline	
<b>Material:</b> Steel		<b>Volume:</b>		<b>Material:</b> Steel		<b>Volume:</b>	
		<b>Contents:</b> Oil/Gas/Water				<b>Contents:</b> Oil/Gas/Water	
<b>Notes/Conditions:</b> Floor sample FS01 @ 6'.							

							
<b>Equipment ID:</b> FS01 @6		<b>Equipment Type:</b> Wellhead		<b>Equipment ID:</b> FL01-A@4		<b>Equipment Type:</b> Flowline	
<b>Material:</b> Steel		<b>Volume:</b>		<b>Material:</b> Steel		<b>Volume:</b>	
		<b>Contents:</b> Oil/Gas/Water				<b>Contents:</b> Oil/Gas/Water	
<b>Notes/Conditions:</b> Floor sample FS01 @ 6'.							



## Photographic Log

							
<b>Equipment ID:</b> BG01@4		<b>Equipment Type:</b> Wellhead		<b>Equipment ID:</b> BG01@6		<b>Equipment Type:</b> Wellhead	
<b>Material:</b> Steel		<b>Volume:</b>		<b>Material:</b> Steel		<b>Volume:</b>	
		<b>Contents:</b> Oil/Gas/Water				<b>Contents:</b> Oil/Gas/Water	
<b>Notes/Conditions:</b> Background sample BG01@4'.							

							
<b>Equipment ID:</b> BG01@4		<b>Equipment Type:</b> Wellhead		<b>Equipment ID:</b> BG01@6		<b>Equipment Type:</b> Wellhead	
<b>Material:</b> Steel		<b>Volume:</b>		<b>Material:</b> Steel		<b>Volume:</b>	
		<b>Contents:</b> Oil/Gas/Water				<b>Contents:</b> Oil/Gas/Water	
<b>Notes/Conditions:</b> Background sample BG01@4'.							



## Photographic Log

											
<b>Equipment ID:</b> FL01-B@4		<b>Equipment Type:</b> Flowline		<b>Equipment ID:</b>		<b>Equipment Type:</b>					
<b>Material:</b> Steel		<b>Volume:</b>		<b>Contents:</b> Oil/Gas/Water		<b>Material:</b>		<b>Volume:</b>		<b>Contents:</b>	
<b>Notes/Conditions:</b> Flowline sample at separator FL01-B@4'.						<b>Notes/Conditions:</b>					





# 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: <b>McClellan 03-35</b>		Date: <b>12/17/2021</b>					Remediation Project #: <b>19606</b>	
Associated Wells:		Age of Site:					Number of Photos Attached: <b>2</b>	
Starting point: (GPS coordinates and descriptions) <b>40.337860, -104.654480</b>								
End point: (GPS coordinates and descriptions) <b>40.340530, -104.655870</b>								
USCS Soil Type: <b>SW - Well Graded Sand</b>					Estimated Depth to Groundwater: <b>&gt;4-ft</b>			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) <b>None observed</b>								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) <b>None observed</b>								
Flowlines								
Flowline type	Oil/gas/water							
Depth	4-ft							
Age	N/A							
Length	1,250-ft							
Construction Material	Steel							
Were flowlines pulled?	N/A							
Visual Integrity of lines	N/A							
Visual impacts if trenched	N/A							
PID Readings if trenched	N/A							
Sample taken? Location/Sample ID#	See below							
Photo Number(s)	2							
Other observations regarding on location flowlines: A total of two samples were taken where lines changes from W to N (FL01-D@4') and from N to NW (FL01-C@4'). Samples screened clean and were not submitted for lab analysis.								
Summary								
Was impacted soil identified? <b>No</b> Yes - less than 10 cubic yards Yes - more than 10 cubic yards								
Total number of samples field screened: <b>2</b>					Total number of samples collected: <b>2</b>			
Highest PID Reading: <b>0.0-ppm</b>					Total number of samples submitted to lab for analysis: <b>0</b>			
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? <b>No</b> 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

							
<b>Equipment ID:</b> FL01-C		<b>Equipment Type:</b> Flowline		<b>Equipment ID:</b> FL01-D		<b>Equipment Type:</b> Flowline	
<b>Material:</b> Steel		<b>Volume:</b>		<b>Material:</b> Steel		<b>Volume:</b>	
		<b>Contents:</b> Oil/Gas/Water				<b>Contents:</b> Oil/Gas/Water	
<b>Notes/Conditions:</b> Flowline sample FL01-C@4' location. No hydrocarbon odor or staining. This is where the line changed from N to NW.				<b>Notes/Conditions:</b> Flowline sample FL01-D@4' location. No hydrocarbon odor or staining. This is where the line changed from W to N.			



**TABLE 1**  
**SOIL SAMPLE LOCATIONS**  
**NOBLE ENERGY, INC. - MCCLELLAN 03-35**

Soil Sample ID	Date	PID (ppm)	Visual	Olfactory	Sample Type (Grab/Lab)	Latitude <sup>1</sup>	Longitude	PDOP
SS01@2.5'	12/01/21	1.1	No Staining	No Odor	Grab	40.3378995	-104.654529	1.1
SS02@2.5'	12/01/21	0.9	No Staining	No Odor	Grab	40.3378752	-104.654507	1.2
SS03@2.5'	12/01/21	1.5	No Staining	No Odor	Grab	40.3378657	-104.654507	1.2
SS04@2.5'	12/01/21	0.2	No Staining	No Odor	Grab	40.3378754	-104.654549	1.2
FS01@6'	12/01/21	1.0	No Staining	No Odor	Lab	40.3378810	-104.654520	1.2
FL01-A@4'	12/01/21	1.1	No Staining	No Odor	Lab	40.3378682	-104.654519	1.2
FL01-B@4'	12/01/21	1.7	No Staining	No Odor	Lab	40.3405300	-104.655870	1.2
FL01-C@4'	12/17/21	0.0	No Staining	No Odor	Grab	40.3399148	-104.655407	1.2
FL01-D@4'	12/17/21	0.0	No Staining	No Odor	Grab	40.3378643	-104.655175	1.1
BG01@4'	12/01/21	1.2	No Staining	No Odor	Grab	40.3376307	-104.654484	1.2
BG01@6'	12/01/21	0.5	No Staining	No Odor	Grab	40.3376307	-104.654484	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. - MCCLELLAN 03-35

Soil Sample ID	Date	<sup>1</sup> 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 <sup>2</sup>		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 <sup>2,3</sup>		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
FS01@6'	12/01/21	<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-A@4'	12/01/21	<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@4'	12/01/21	<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 <sup>2</sup>		6 - 8.3	<6	<4mmhos/cm	2
FS01@6'	12/01/21	8.04	5.46	1.41	0.122
FL01-A@4'	12/01/21	7.94	4.33	1.70	0.143
FL01-B@4'	12/01/21	8.11	0.304	0.321	0.104

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



**TABLE 3**  
**GROUNDWATER ANALYTICAL DATA**  
**NOBLE ENERGY, INC. - MCCLELLAN 3-35**

Monitoring Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4 - TMB (µg/L)	1,3,5 - TMB (µg/L)	Total Dissolved Solids	Chlorides (mg/L)	Sulfates (mg/L)
<b>COGCC Standard</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1,400</b>	<b>140</b>	<b>67</b>	<b>67</b>	<b>1.25 X Background</b>	<b>250</b>	<b>250</b>
GW-01	10/27/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA

Notes:

COGCC = Colorado Oil and Gas Conservation Commission

µg/L = Micrograms per liter

mg/L = Milligrams per liter

NA = Not Analyzed

1,2,4 - TMB = 1,2,4 - trimethylbenzene

1,3,5 - TMB = 1,3,5 - trimethylbenzene


< = Analytical result is less than the indicated laboratory reporting limit

Groundwater standards referenced from COGCC Table 915-1

**Highlighted results are equal to or exceed the COGCC Table 915-1 standard**






DATE:	12/15/2021	 <b>TASMAN</b> Tasman Geosciences, Inc. 6855 W 119 <sup>th</sup> Avenue Broomfield, CO 80020	<b>Noble Energy, Inc. – DJ Basin McClellan 03-35</b> NWSW, Section 3, Township 4 North, Range 65 West Weld County, Colorado	Wellhead Closure & Soil and Groundwater Analytical Results Map (12/01/2021 & 10/27/2022)	FIGURE 1
DESIGNED BY:	JW				
DRAWN BY:	JC				





DATE:	12/15/2021	 <b>TASMAN</b> Tasman Geosciences, Inc. 6855 W 119 <sup>th</sup> Avenue Broomfield, CO 80020	<b>Noble Energy, Inc. – DJ Basin McClellan 03-35</b> NWSW, Section 3, Township 4 North, Range 65 West Weld County, Colorado	Flowline Closure & Soil Analytical Results Map (12/01/2021-12/17/2021)	FIGURE 2
DESIGNED BY:	JW				
DRAWN BY:	JC				



# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 15, 2021

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Noble - McClellan 03-35

Work Order #2112031

Enclosed are the results of analyses for samples received by Summit Scientific on 12/01/21 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury

President



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

Project: Noble - McClellan 03-35  
Project Number: UWRWE-A1607-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/21 12:08

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS01@6	2112031-02	Soil	12/01/21 14:54	12/01/21 17:00
FL01-A@4	2112031-03	Soil	12/01/21 14:56	12/01/21 17:00
FL01-B@4	2112031-04	Soil	12/01/21 14:12	12/01/21 17:00

Summit Scientific

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



# Summit Scientific

2112031

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 1

Client: Noble / Tasman Geosciences

Project Manager: Jake Whritenour, Invoice: Jeff White

Address: 6855 W. 119th Ave.

E-Mail: Jwhritenour@tasman-geo.com

City/State/Zip: Broomfield / CO/ 80020

Phone: 303-487-1228

Project Name: McClellan 03-35

Sampler Name: Daniel Qua Halina North

Project Number: UWRWE-A1607-ABN

					Preservative				Matrix				Analysis Requested							Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other _____	Water	Soil	Air-Canister #	Other _____	8260 BTEX	VOC - 915	TPH - 915	PAH - 915	SAR, EC, pH	Boron - HWS	HOLD		
1	SS03@2.5	12/1/21	14:52				X			X				X	X	X	X	X	X		
2	FS01@6	↓	14:54				↓			↓				↓	↓	↓	↓	↓			
3	FL01-A@4	↓	14:56				↓			↓				↓	↓	↓	↓	↓			
4	FL01-B@4	↓	14:12				↓			↓				↓	↓	↓	↓	↓			
5	BG01@4	↓	15:04				↓			↓				↓	↓	↓	↓	↓	X		
6	BG01@4	↓	15:02				↓			↓				↓	↓	↓	↓	↓	X		
7																					
8																					
9																					
10																					

Relinquished by: Halina North Date/Time: 12/1/21 17:00

Received by: Tasman's Lock Box Date/Time: 12/1/21 17:00

Turn Around Time (Check)

☐ Same Day 72 hours  
☒ 24 hours Standard  
☐ 48 hours

Notes:

Relinquished by: Tasman's Lock Box Date/Time:

Received by: [Signature] Date/Time: 12-1-21 1700

Sample Integrity:

Temperature Upon Receipt: 8.9

Samples Intact: ☒ Yes ☐ No







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

Project: Noble - McClellan 03-35  
Project Number: UWRWE-A1607-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/21 12:08

**FS01@6**  
**2112031-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **12/01/21 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEL0042	12/02/21	12/03/21	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: **12/01/21 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		118 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		122 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		124 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **12/01/21 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEL0043	12/02/21	12/03/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/01/21 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		88.4 %	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 - McClellan 03-35  
Project Number: UWRWE-A1607-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/21 12:08

**FS01@6**  
**2112031-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **12/01/21 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEL0027	12/02/21	12/08/21	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: **12/01/21 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		61.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		57.0 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **12/01/21 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.122</b>	0.0100	mg/L	1	BEL0168	12/08/21	12/14/21	EPA 6020B	

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

Date Sampled: **12/01/21 14:54**

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 - McClellan 03-35  
Project Number: UWRWE-A1607-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/21 12:08

**FS01@6**  
**2112031-02 (Soil)**

**Summit Scientific**

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

Calcium	47.4	0.0571	mg/L dry	1	BEL0116	12/06/21	12/14/21	EPA 6020B
Magnesium	15.8	0.0571	"	"	"	"	"	"
Sodium	170	0.0571	"	"	"	"	"	"

**Calculated Analysis**

Date Sampled: **12/01/21 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.46	0.00100	units	1	BEL0290	12/14/21	12/14/21	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **12/01/21 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.5		%	1	BEL0228	12/10/21	12/10/21	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **12/01/21 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.41	0.0100	mmhos/cm	1	BEL0136	12/07/21	12/07/21	EPA 120.1	

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

Date Sampled: **12/01/21 14:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.04		pH Units	1	BEL0135	12/07/21	12/07/21	EPA 9045D	

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

Project: Noble - McClellan 03-35  
Project Number: UWRWE-A1607-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/21 12:08

**FL01-A@4**  
**2112031-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **12/01/21 14:56**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BEL0042	12/02/21	12/03/21	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: **12/01/21 14:56**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		113 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		114 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		119 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **12/01/21 14:56**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BEL0043	12/02/21	12/03/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/01/21 14:56**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		109 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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6855 W. 119th Ave.  
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Project: Noble - McClellan 03-35  
Project Number: UWRWE-A1607-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/21 12:08

**FL01-A@4**  
**2112031-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **12/01/21 14:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEL0027	12/02/21	12/08/21	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: **12/01/21 14:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		89.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		76.0 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **12/01/21 14:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.143</b>	0.0100	mg/L	1	BEL0168	12/08/21	12/14/21	EPA 6020B	

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

Date Sampled: **12/01/21 14:56**

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 - McClellan 03-35  
Project Number: UWRWE-A1607-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/21 12:08

**FL01-A@4**  
**2112031-03 (Soil)**

**Summit Scientific**

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

Calcium	69.4	0.0572	mg/L dry	1	BEL0116	12/06/21	12/14/21	EPA 6020B
Magnesium	29.8	0.0572	"	"	"	"	"	"
Sodium	171	0.0572	"	"	"	"	"	"

**Calculated Analysis**

Date Sampled: **12/01/21 14:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.33	0.00100	units	1	BEL0290	12/14/21	12/14/21	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **12/01/21 14:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.4		%	1	BEL0228	12/10/21	12/10/21	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **12/01/21 14:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.70	0.0100	mmhos/cm	1	BEL0136	12/07/21	12/07/21	EPA 120.1	

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

Date Sampled: **12/01/21 14:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.94		pH Units	1	BEL0135	12/07/21	12/07/21	EPA 9045D	

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - McClellan 03-35  
Project Number: UWRWE-A1607-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/21 12:08

**FL01-B@4**  
**2112031-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **12/01/21 14:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BEL0042	12/02/21	12/03/21	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: **12/01/21 14:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		115 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		116 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		118 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **12/01/21 14:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BEL0043	12/02/21	12/03/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/01/21 14:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		89.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - McClellan 03-35  
Project Number: UWRWE-A1607-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/21 12:08

**FL01-B@4**  
**2112031-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **12/01/21 14:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEL0027	12/02/21	12/08/21	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: **12/01/21 14:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		73.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		66.4 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **12/01/21 14:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.104</b>	0.0100	mg/L	1	BEL0168	12/08/21	12/14/21	EPA 6020B	

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

Date Sampled: **12/01/21 14:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - McClellan 03-35  
Project Number: UWRWE-A1607-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/21 12:08

**FL01-B@4**  
**2112031-04 (Soil)**

**Summit Scientific**

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

Calcium	29.5	0.0564	mg/L dry	1	BEL0116	12/06/21	12/14/21	EPA 6020B
Magnesium	13.9	0.0564	"	"	"	"	"	"
Sodium	7.98	0.0564	"	"	"	"	"	"

**Calculated Analysis**

Date Sampled: **12/01/21 14:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.304	0.00100	units	1	BEL0290	12/14/21	12/14/21	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **12/01/21 14:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.7		%	1	BEL0228	12/10/21	12/10/21	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **12/01/21 14:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.321	0.0100	mmhos/cm	1	BEL0136	12/07/21	12/07/21	EPA 120.1	

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

Date Sampled: **12/01/21 14:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.11		pH Units	1	BEL0135	12/07/21	12/07/21	EPA 9045D	

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - McClellan 03-35  
Project Number: UWRWE-A1607-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/21 12:08

## 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 BEL0042 - EPA 5030 Soil MS

##### Blank (BEL0042-BLK1)

Prepared: 12/02/21 Analyzed: 12/03/21

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	0.0479		"	0.0400		120	23-173			
Surrogate: Toluene-d8	0.0468		"	0.0400		117	20-170			
Surrogate: 4-Bromofluorobenzene	0.0463		"	0.0400		116	21-167			

##### LCS (BEL0042-BS1)

Prepared: 12/02/21 Analyzed: 12/03/21

Benzene	0.0947	0.0020	mg/kg	0.100		94.7	70-130			
Toluene	0.112	0.0050	"	0.100		112	70-130			
Ethylbenzene	0.0961	0.0050	"	0.100		96.1	70-130			
m,p-Xylene	0.196	0.010	"	0.200		98.0	70-130			
o-Xylene	0.103	0.0050	"	0.100		103	70-130			
1,2,4-Trimethylbenzene	0.105	0.0050	"	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.0979	0.0050	"	0.100		97.9	70-130			
Naphthalene	0.0855	0.0038	"	0.100		85.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0458		"	0.0400		114	23-173			
Surrogate: Toluene-d8	0.0446		"	0.0400		111	20-170			
Surrogate: 4-Bromofluorobenzene	0.0412		"	0.0400		103	21-167			

##### Matrix Spike (BEL0042-MS1)

Source: 2111506-01

Prepared: 12/02/21 Analyzed: 12/03/21

Benzene	0.0907	0.0020	mg/kg	0.100	ND	90.7	70-130			
Toluene	0.0976	0.0050	"	0.100	ND	97.6	70-130			
Ethylbenzene	0.0814	0.0050	"	0.100	ND	81.4	70-130			
m,p-Xylene	0.165	0.010	"	0.200	ND	82.7	70-130			
o-Xylene	0.0866	0.0050	"	0.100	ND	86.6	70-130			
1,2,4-Trimethylbenzene	0.0820	0.0050	"	0.100	ND	82.0	70-130			
1,3,5-Trimethylbenzene	0.0774	0.0050	"	0.100	ND	77.4	70-130			
Naphthalene	0.0882	0.0038	"	0.100	ND	88.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0486		"	0.0400		122	23-173			
Surrogate: Toluene-d8	0.0446		"	0.0400		112	20-170			
Surrogate: 4-Bromofluorobenzene	0.0438		"	0.0400		110	21-167			

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6855 W. 119th Ave.  
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Project: Noble - McClellan 03-35  
Project Number: UWRWE-A1607-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/21 12:08

**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 BEL0042 - EPA 5030 Soil MS**

Matrix Spike Dup (BEL0042-MSD1)		Source: 2111506-01			Prepared: 12/02/21 Analyzed: 12/03/21					
Benzene	0.0912	0.0020	mg/kg	0.100	ND	91.2	70-130	0.528	30	
Toluene	0.0945	0.0050	"	0.100	ND	94.5	70-130	3.28	30	
Ethylbenzene	0.0796	0.0050	"	0.100	ND	79.6	70-130	2.27	30	
m,p-Xylene	0.164	0.010	"	0.200	ND	82.0	70-130	0.819	30	
o-Xylene	0.0844	0.0050	"	0.100	ND	84.4	70-130	2.60	30	
1,2,4-Trimethylbenzene	0.0803	0.0050	"	0.100	ND	80.3	70-130	2.11	30	
1,3,5-Trimethylbenzene	0.0764	0.0050	"	0.100	ND	76.4	70-130	1.29	30	
Naphthalene	0.0861	0.0038	"	0.100	ND	86.1	70-130	2.41	30	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	0.0468		"	0.0400		117	23-173			
Surrogate: Toluene-d8	0.0439		"	0.0400		110	20-170			
Surrogate: 4-Bromofluorobenzene	0.0432		"	0.0400		108	21-167			

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: Noble - McClellan 03-35  
Project Number: UWRWE-A1607-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/21 12:08

**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 BEL0043 - EPA 3550A**

**Blank (BEL0043-BLK1)**

Prepared: 12/02/21 Analyzed: 12/03/21

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

**LCS (BEL0043-BS1)**

Prepared: 12/02/21 Analyzed: 12/03/21

C10-C28 (DRO)	580	50	mg/kg	500	116	70-130
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**Matrix Spike (BEL0043-MS1)**

Source: 2111506-01

Prepared: 12/02/21 Analyzed: 12/03/21

C10-C28 (DRO)	479	50	mg/kg	500	ND	95.8	70-130
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**Matrix Spike Dup (BEL0043-MSD1)**

Source: 2111506-01

Prepared: 12/02/21 Analyzed: 12/03/21

C10-C28 (DRO)	445	50	mg/kg	500	ND	88.9	70-130	7.38	20
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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 - McClellan 03-35  
Project Number: UWRWE-A1607-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/21 12:08

## 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 BEL0027 - EPA 5030 Soil MS

##### Blank (BEL0027-BLK1)

Prepared: 12/02/21 Analyzed: 12/07/21

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	0.0298		"	0.0333		89.4	40-150			
Surrogate: Fluoranthene-d10	0.0273		"	0.0333		81.9	40-150			

##### LCS (BEL0027-BS1)

Prepared: 12/02/21 Analyzed: 12/07/21

Acenaphthene	0.0263	0.00500	mg/kg	0.0333		78.9	31-137			
Anthracene	0.0273	0.00500	"	0.0333		81.9	30-120			
Benzo (a) anthracene	0.0247	0.00500	"	0.0333		74.0	30-120			
Benzo (a) pyrene	0.0268	0.00500	"	0.0333		80.4	30-120			
Benzo (b) fluoranthene	0.0280	0.00500	"	0.0333		84.1	30-120			
Benzo (k) fluoranthene	0.0309	0.00500	"	0.0333		92.7	30-120			
Chrysene	0.0256	0.00500	"	0.0333		76.9	30-120			
Dibenz (a,h) anthracene	0.0223	0.00500	"	0.0333		67.0	30-120			
Fluoranthene	0.0282	0.00500	"	0.0333		84.6	30-120			
Fluorene	0.0286	0.00500	"	0.0333		85.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0138	0.00500	"	0.0333		41.5	30-120			
Pyrene	0.0264	0.00500	"	0.0333		79.1	35-142			
1-Methylnaphthalene	0.0248	0.00500	"	0.0333		74.3	35-142			
2-Methylnaphthalene	0.0233	0.00500	"	0.0333		69.9	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0253		"	0.0333		75.9	40-150			
Surrogate: Fluoranthene-d10	0.0281		"	0.0333		84.2	40-150			

Summit Scientific

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

Project: Noble - McClellan 03-35  
Project Number: UWRWE-A1607-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/21 12:08

## 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 BEL0027 - EPA 5030 Soil MS

##### Matrix Spike (BEL0027-MS1)

Source: 2111360-01

Prepared: 12/02/21 Analyzed: 12/07/21

Acenaphthene	0.0231	0.00500	mg/kg	0.0333	ND	69.4	31-137		
Anthracene	0.0231	0.00500	"	0.0333	ND	69.3	30-120		
Benzo (a) anthracene	0.0214	0.00500	"	0.0333	ND	64.3	30-120		
Benzo (a) pyrene	0.0239	0.00500	"	0.0333	ND	71.7	30-120		
Benzo (b) fluoranthene	0.0246	0.00500	"	0.0333	ND	73.7	30-120		
Benzo (k) fluoranthene	0.0275	0.00500	"	0.0333	ND	82.4	30-120		
Chrysene	0.0228	0.00500	"	0.0333	ND	68.5	30-120		
Dibenz (a,h) anthracene	0.0205	0.00500	"	0.0333	ND	61.5	30-120		
Fluoranthene	0.0248	0.00500	"	0.0333	ND	74.3	30-120		
Fluorene	0.0247	0.00500	"	0.0333	ND	74.2	30-120		
Indeno (1,2,3-cd) pyrene	0.0123	0.00500	"	0.0333	ND	37.0	30-120		
Pyrene	0.0229	0.00500	"	0.0333	ND	68.8	35-142		
1-Methylnaphthalene	0.0242	0.00500	"	0.0333	ND	72.5	15-130		
2-Methylnaphthalene	0.0237	0.00500	"	0.0333	ND	71.1	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0231		"	0.0333		69.2	40-150		
Surrogate: Fluoranthene-d10	0.0252		"	0.0333		75.6	40-150		

##### Matrix Spike Dup (BEL0027-MSD1)

Source: 2111360-01

Prepared: 12/02/21 Analyzed: 12/07/21

Acenaphthene	0.0229	0.00500	mg/kg	0.0333	ND	68.6	31-137	1.09	30
Anthracene	0.0231	0.00500	"	0.0333	ND	69.3	30-120	0.0101	30
Benzo (a) anthracene	0.0225	0.00500	"	0.0333	ND	67.5	30-120	4.87	30
Benzo (a) pyrene	0.0244	0.00500	"	0.0333	ND	73.3	30-120	2.14	30
Benzo (b) fluoranthene	0.0250	0.00500	"	0.0333	ND	74.9	30-120	1.62	30
Benzo (k) fluoranthene	0.0279	0.00500	"	0.0333	ND	83.7	30-120	1.47	30
Chrysene	0.0234	0.00500	"	0.0333	ND	70.1	30-120	2.31	30
Dibenz (a,h) anthracene	0.0202	0.00500	"	0.0333	ND	60.7	30-120	1.28	30
Fluoranthene	0.0246	0.00500	"	0.0333	ND	73.9	30-120	0.470	30
Fluorene	0.0251	0.00500	"	0.0333	ND	75.3	30-120	1.45	30
Indeno (1,2,3-cd) pyrene	0.0133	0.00500	"	0.0333	ND	40.0	30-120	7.85	30
Pyrene	0.0242	0.00500	"	0.0333	ND	72.7	35-142	5.56	30
1-Methylnaphthalene	0.0229	0.00500	"	0.0333	ND	68.7	15-130	5.41	50
2-Methylnaphthalene	0.0215	0.00500	"	0.0333	ND	64.5	15-130	9.75	50
Surrogate: 2-Methylnaphthalene-d10	0.0215		"	0.0333		64.4	40-150		
Surrogate: Fluoranthene-d10	0.0253		"	0.0333		75.8	40-150		

Summit Scientific

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

Project: Noble - McClellan 03-35

Project Number: UWRWE-A1607-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/21 12:08

**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 BEL0168 - EPA 3050B**

**Blank (BEL0168-BLK1)**

Prepared: 12/08/21 Analyzed: 12/14/21

Boron ND 0.0100 mg/L

**LCS (BEL0168-BS1)**

Prepared: 12/08/21 Analyzed: 12/14/21

Boron 5.10 0.0100 mg/L 5.00 102 80-120

**Duplicate (BEL0168-DUP1)**

Source: 2112027-01

Prepared: 12/08/21 Analyzed: 12/14/21

Boron ND 0.0100 mg/L ND 20

**Matrix Spike (BEL0168-MS1)**

Source: 2112027-01

Prepared: 12/08/21 Analyzed: 12/14/21

Boron 5.40 0.0100 mg/L 5.00 ND 108 75-125

**Matrix Spike Dup (BEL0168-MSD1)**

Source: 2112027-01

Prepared: 12/08/21 Analyzed: 12/14/21

Boron 5.39 0.0100 mg/L 5.00 ND 108 75-125 0.156 25

Summit Scientific

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

Project: Noble - McClellan 03-35  
Project Number: UWRWE-A1607-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/21 12:08

**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 BEL0116 - General Preparation**

**Blank (BEL0116-BLK1)**

Prepared: 12/06/21 Analyzed: 12/14/21

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

**LCS (BEL0116-BS1)**

Prepared: 12/06/21 Analyzed: 12/14/21

Calcium	5.78	0.0500	mg/L wet	5.00	116	70-130
Magnesium	5.89	0.0500	"	5.00	118	70-130
Sodium	5.46	0.0500	"	5.00	109	70-130

Summit Scientific

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

Project: Noble - McClellan 03-35

Project Number: UWRWE-A1607-ABN

Project Manager: Jacob Whritenour

**Reported:**  
12/15/21 12:08

**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 BEL0228 - General Preparation**

**Duplicate (BEL0228-DUP1)**

**Source: 2112026-12**

**Prepared & Analyzed: 12/10/21**

% Solids	96.8	%	96.6	0.214	20
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Summit Scientific

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

Project: Noble - McClellan 03-35

Project Number: UWRWE-A1607-ABN

Project Manager: Jacob Whritenour

**Reported:**  
12/15/21 12:08

**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 BEL0136 - General Preparation**

**Blank (BEL0136-BLK1)**

Prepared & Analyzed: 12/07/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BEL0136-BS1)**

Prepared & Analyzed: 12/07/21

Specific Conductance (EC) 0.153 0.0100 mmhos/cm 0.150 102 95-105

**Duplicate (BEL0136-DUP1)**

**Source: 2111526-01**

Prepared & Analyzed: 12/07/21

Specific Conductance (EC) 2.36 0.0100 mmhos/cm 2.41 2.18 20

Summit Scientific

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

Project: Noble - McClellan 03-35

Project Number: UWRWE-A1607-ABN

Project Manager: Jacob Whritenour

**Reported:**  
12/15/21 12:08

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

**Summit Scientific**

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

**Batch BEL0135 - General Preparation**

**LCS (BEL0135-BS1)**

Prepared & Analyzed: 12/07/21

pH	9.07	pH Units	9.18	98.8	95-105
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**Duplicate (BEL0135-DUP1)**

Source: 2111526-01

Prepared & Analyzed: 12/07/21

pH	11.6	pH Units	11.5	0.691	20
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Summit Scientific

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

Project: Noble - McClellan 03-35

Project Number: UWRWE-A1607-ABN  
Project Manager: Jacob Whritenour

**Reported:**  
12/15/21 12:08

### 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

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 02, 2022

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Noble - McClellan 03-35 WH

Work Order #2210534

Enclosed are the results of analyses for samples received by Summit Scientific on 10/27/22 17:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury  
President





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

Project: Noble - McClellan 03-35 WH

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
11/02/22 08:47

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-01	2210534-01	Water	10/27/22 10:30	10/27/22 17:10

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

S<sub>2</sub>

2210534

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310

Page 1 of 1

Client: Noble / Tasman Project Manager: Jacob Whritenour Invoice: Erica Zuniga  
Address: 6855 W. 119th Ave E-Mail: jwhritenour@tasman-geo.com  
City/State/Zip: Broomfield/ CO/ 80020  
Phone: 503-915-3046 Project Name: McClellan 03-35 WH  
Sampler Name: Martin Medeiros Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions	
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	BTEX	Naphthalene	1,2,4-TMB	1,3,5-TMB	TDS	Chloride	Sulfate			
1	GW-01	10/27/22	1030	4	X				X					X	X	X	X	X	X	X		Please Hold TDS, Chloride, and Sulfate
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
Relinquished by: Martin Medeiros		Date/Time: 10/27/22 14:30		Received by: Tasman's Lock Box		Date/Time: 10/27/22		Turn Around Time (Check)				Notes:										
								Same Day — 72 hours														
								24 hours — Standard <input checked="" type="checkbox"/>														
								48 hours —														
Relinquished by: Tasman's Lock Box		Date/Time: 10/27/22 1710		Received by: [Signature]		Date/Time: 10/27/22 1710		Sample Integrity:														
								Temperature Upon Receipt: 7.9														
Relinquished by:		Date/Time:		Received by:		Date/Time:		Samples Intact: <input checked="" type="checkbox"/> Yes No														

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order#

2210534

Client: Nobel/TasmanClient Project ID: McClellan 03-35 WHShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐

Airbill #:

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply)

Air

☐

Soil/Solid

☐

Water

☒

Other

☐

Temp (°C)

Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> 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? <sup>(1)</sup>	<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 <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<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 checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCL
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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):				

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

Custodian Printed Name

Date/Time

10-27-22 1710



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

Project: Noble - McClellan 03-35 WH

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
11/02/22 08:47

**GW-01**  
**2210534-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **10/27/22 10:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BFJ0821	10/28/22	10/29/22	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/27/22 10:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		93.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.2 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Noble - McClellan 03-35 WH

Project Number: [none]

Project Manager: Jacob Whritenour

**Reported:**  
11/02/22 08:47

## 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 BFJ0821 - EPA 5030 Water MS

##### Blank (BFJ0821-BLK1)

Prepared: 10/28/22 Analyzed: 10/29/22

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.3		104	23-173			
Surrogate: Toluene-d8	15.7		"	13.3		118	20-170			
Surrogate: 4-Bromofluorobenzene	10.4		"	13.3		78.0	21-167			

##### LCS (BFJ0821-BS1)

Prepared: 10/28/22 Analyzed: 10/29/22

Benzene	30.7	1.0	ug/l	41.7		73.6	51-132			
Toluene	39.8	1.0	"	41.7		95.4	51-138			
Ethylbenzene	39.2	1.0	"	41.7		94.2	58-146			
m,p-Xylene	81.7	2.0	"	83.3		98.1	57-144			
o-Xylene	40.6	1.0	"	41.7		97.5	53-146			
Naphthalene	30.9	1.0	"	41.7		74.2	70-130			
1,2,4-Trimethylbenzene	40.8	1.0	"	41.7		98.0	70-130			
1,3,5-Trimethylbenzene	44.0	1.0	"	41.7		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	12.9		"	13.3		96.7	23-173			
Surrogate: Toluene-d8	13.5		"	13.3		101	20-170			
Surrogate: 4-Bromofluorobenzene	11.5		"	13.3		86.0	21-167			

##### Matrix Spike (BFJ0821-MS1)

Source: 2210480-01

Prepared: 10/28/22 Analyzed: 10/29/22

Benzene	28.5	1.0	ug/l	41.7	ND	68.4	34-141			
Toluene	41.0	1.0	"	41.7	ND	98.5	27-151			
Ethylbenzene	39.4	1.0	"	41.7	ND	94.5	29-160			
m,p-Xylene	82.5	2.0	"	83.3	ND	99.0	20-166			
o-Xylene	41.6	1.0	"	41.7	ND	99.7	33-159			
Naphthalene	36.6	1.0	"	41.7	ND	87.8	70-130			
1,2,4-Trimethylbenzene	41.6	1.0	"	41.7	ND	99.7	70-130			
1,3,5-Trimethylbenzene	45.1	1.0	"	41.7	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	12.0		"	13.3		90.1	23-173			
Surrogate: Toluene-d8	13.6		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	11.6		"	13.3		86.9	21-167			

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 - McClellan 03-35 WH

Project Number: [none]

Project Manager: Jacob Whritenour

**Reported:**  
11/02/22 08:47

## 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 BFJ0821 - EPA 5030 Water MS

##### Matrix Spike Dup (BFJ0821-MSD1)

Source: 2210480-01

Prepared: 10/28/22 Analyzed: 10/29/22

Benzene	31.5	1.0	ug/l	41.7	ND	75.5	34-141	9.83	30	
Toluene	43.2	1.0	"	41.7	ND	104	27-151	5.10	30	
Ethylbenzene	39.5	1.0	"	41.7	ND	94.8	29-160	0.254	30	
m,p-Xylene	83.2	2.0	"	83.3	ND	99.8	20-166	0.869	30	
o-Xylene	41.3	1.0	"	41.7	ND	99.1	33-159	0.579	30	
Naphthalene	40.1	1.0	"	41.7	ND	96.3	70-130	9.20	30	
1,2,4-Trimethylbenzene	41.9	1.0	"	41.7	ND	101	70-130	0.767	30	
1,3,5-Trimethylbenzene	45.0	1.0	"	41.7	ND	108	70-130	0.222	30	
Surrogate: 1,2-Dichloroethane-d4	14.3		"	13.3		107	23-173			
Surrogate: Toluene-d8	13.8		"	13.3		104	20-170			
Surrogate: 4-Bromofluorobenzene	11.5		"	13.3		86.5	21-167			

Summit Scientific

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Project Manager: Jacob Whritenour

**Reported:**  
11/02/22 08:47

### 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