

FOURTH QUARTER 2023 SITE MONITORING DATA

LOUSTALET B15-15X

ECMC SPILL TRACKING # 481757
ECMC REMEDIATION # 21246

Prepared for:



2115 117th Avenue
Greeley, CO 80631

Prepared by:



6855 W. 119th Ave
Broomfield, CO 80020

TABLE 1
GROUNDWATER ELEVATION DATA
NOBLE ENERGY, INC. - LOUSTALET B15-15X



Monitoring Well ID	Date	Top of Casing Elevation (ft. AMSL)	Total Depth (ft. BTOC)	Depth to Water (ft.) ⁽¹⁾	Depth to LNAPL (ft.) ⁽¹⁾	LNAPL Thickness (ft.)	Groundwater Elevation* (ft. AMSL)
MW01	08/12/22	4567.60	NM	3.35	ND	ND	4564.39
MW01	01/04/23	4567.60	4.76	2.17	ND	ND	4565.57
MW01	03/07/23	4567.60	4.78	2.14	ND	ND	4565.60
MW01	06/08/23	4567.60	4.49	0.72	ND	ND	4567.02
MW01	09/26/23	4567.60	4.55	1.24	ND	ND	4566.50
MW01	12/22/23	4567.60	4.54	2.49	ND	ND	4565.25
MW02	08/12/22	4567.32	NM	3.27	ND	ND	4564.28
MW02	01/04/23	4567.32	4.07	2.09	ND	ND	4565.46
MW02	03/07/23	4567.32	4.08	2.03	ND	ND	4565.52
MW02	06/08/23	4567.32	4.07	0.84	ND	ND	4566.71
MW02	09/26/23	4567.32	4.07	ND	ND	ND	DRY
MW02	12/22/23	4567.32	4.06	ND	ND	ND	DRY
MW03	08/12/22	4567.40	NM	3.29	ND	ND	4564.29
MW03	01/04/23	4567.40	4.25	2.11	ND	ND	4565.47
MW03	03/07/23	4567.40	4.28	2.12	ND	ND	4565.46
MW03	06/08/23	4567.40	4.23	0.74	ND	ND	4566.84
MW03	09/26/23	4567.40	4.20	ND	ND	ND	DRY
MW03	12/22/23	4567.40	4.20	ND	ND	ND	DRY
MW04	08/12/22	4567.55	NM	3.53	ND	ND	4564.27
MW04	01/04/23	4567.55	4.35	2.17	ND	ND	4565.63
MW04	03/07/23	4567.55	4.34	2.28	ND	ND	4565.52
MW04	06/08/23	4567.55	4.32	0.97	ND	ND	4566.83
MW04	09/26/23	4567.55	4.39	1.54	ND	ND	4566.26
MW04	12/22/23	4567.55	4.41	3.21	ND	ND	4564.59
MW05	08/12/22	4567.04	NM	2.84	ND	ND	4564.37
MW05	01/04/23	4567.04	7.02	1.76	ND	ND	4565.45
MW05	03/07/23	4567.04	7.00	1.85	ND	ND	4565.36
MW05	06/08/23	4567.04	6.85	0.25	ND	ND	4566.96
MW05	09/26/23	4567.04	6.78	0.68	ND	ND	4566.53
MW05	12/22/23	4567.04	6.75	2.04	ND	ND	4565.17

Notes:

⁽¹⁾ Depth to water measurements were collected from top of casing and adjusted using survey data to reflect depth of water from ground surface.

* Groundwater elevation was corrected for product thickness (when present) using the following calculation:

Groundwater elevation = (TOC Elevation - Measured Depth to Water)+(LNAPL Thickness in Well x LNAPL Relative Density)

LNAPL relative density was estimated to be 0.75

Definitions:

NM = Not measured
ft. = Feet
AMSL = Above mean sea level
BTOC = Below top of casing
BGS = Below ground surface
LNAPL = Light non-aqueous phase liquid
ND = No LNAPL detected

TABLE 2
GROUNDWATER ANALYTICAL DATA
NOBLE ENERGY, INC. - LOUSTALET B15-15X



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)	TDS (mg/L)	Chloride Ion (mg/L)	Sulfate Ion (mg/L)	Dissolved Arsenic (µg/L)	Dissolved Barium (µg/L)	Dissolved Lead (µg/L)	Dissolved Selenium (µg/L)
ECMC Standard ⁽¹⁾		5	560	700	1,400	140	67	67	<1.25 x Background	250 or <1.25 x Background	250 or <1.25 x Background	10 ⁽³⁾	2,000 ⁽³⁾	50 ⁽³⁾	20 ⁽⁴⁾
GW01	03/02/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	NA
MW01 ⁽²⁾	08/12/22	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	1,080	121	358	NA	NA	NA	NA
MW01 ⁽²⁾	01/04/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	825	102	235	NA	NA	NA	NA
MW01 ⁽²⁾	03/07/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	951	80.0	74.0	NA	NA	NA	NA
MW01 ⁽²⁾	06/08/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,860	346	816	NA	NA	NA	NA
MW01 ⁽²⁾	09/26/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,440	256	563	NA	NA	NA	NA
MW01 ⁽²⁾	12/22/23	Analytes Removed From Sampling Plan							1,380	210	545	<0.600	34.0	0.895	2.40
MW02	08/12/22	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	1,140	130	371	NA	NA	NA	NA
MW02	01/04/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	960	115	270	NA	NA	NA	NA
MW02	03/07/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	4,720	539	1,630	NA	NA	NA	NA
MW02	06/08/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,580	279	788	NA	NA	NA	NA
MW02	09/26/23	Well Not Sampled - Monitoring Well Dry													
MW02	12/22/23	Well Not Sampled - Monitoring Well Dry													
MW03	08/12/22	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	1,060	117	351	NA	NA	NA	NA
MW03	01/04/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	791	95.6	185	NA	NA	NA	NA
MW03	03/07/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2,480	277	686	NA	NA	NA	NA
MW03	06/08/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,450	279	671	NA	NA	NA	NA
MW03	09/26/23	Well Not Sampled - Monitoring Well Dry													
MW03	12/22/23	Well Not Sampled - Monitoring Well Dry													
MW04 ⁽²⁾	08/12/22	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	1,090	121	353	NA	NA	NA	NA
MW04 ⁽²⁾	01/04/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	804	113	232	NA	NA	NA	NA
MW04 ⁽²⁾	03/07/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	965	91.6	197	NA	NA	NA	NA
MW04 ⁽²⁾	06/08/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2,150	430	1,020	NA	NA	NA	NA
MW04	09/26/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,500	268	592	NA	NA	NA	NA
MW04	12/22/23	Analytes Removed From Sampling Plan							1,360	213	525	<0.600	25.3	<0.500	2.39
MW05	08/12/22	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	1,150	127	369	NA	NA	NA	NA
MW05	01/04/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,260	168	328	NA	NA	NA	NA
MW05	03/07/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	5,360	614	1,880	NA	NA	NA	NA
MW05	06/08/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2,760	358	1,180	NA	NA	NA	NA
MW05	09/26/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	1,510	269	600	NA	NA	NA	NA
MW05	12/22/23	Analytes Removed From Sampling Plan							1,370	220	530	<0.600	39.2	1.12	2.50

Notes:

⁽¹⁾ Groundwater standards referenced from 2 CCR 404-1, Table 915-1 (January 15, 2021).

⁽²⁾ Monitoring well used for inorganic background levels.

⁽³⁾ Dissolved arsenic, barium, and lead groundwater standards referenced from the 5 CCR 1002-41, Regulation No. 41, Table 1, Domestic Water Supply Standards, January 31, 2013.

⁽⁴⁾ Dissolved selenium groundwater standard referenced from the 5 CCR 1002-41, Regulation No. 41, Table 3, Agricultural Standards, January 31, 2013.

Definitions:

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

ECMC = Colorado Energy and Carbon Management Commission

mg/L = Milligrams per liter

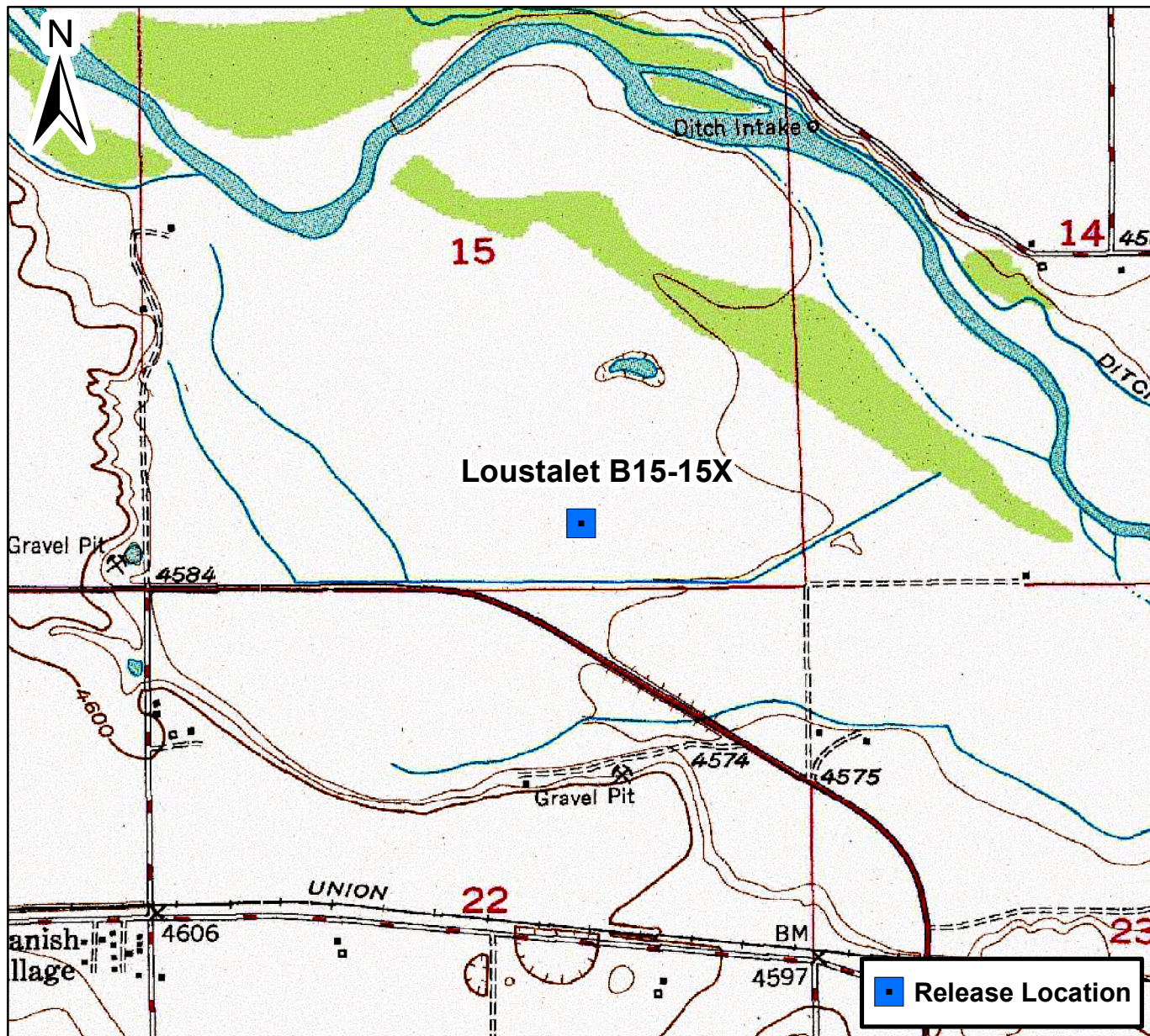
µg/L = Micrograms per liter

1,2,4 - TMB = 1,2,4 Trimethylbenzene

1,3,5 - TMB = 1,3,5 Trimethylbenzene

TDS = Total Dissolved Solids

Bold results exceed the ECMC Table 915-1 standard for groundwater inorganic parameters, site-specific background assessment is on-going for groundwater inorganic constituents.



0 1,500 3,000 Feet

Figure 1

Site Location Map
Loustalet B15-15X
SWSE S15 T5N R64W
Weld County, Colorado





Legend

Monitoring Well
(Collected via Trimble GPS)

Excavation Extent
(Collected via Trimble GPS)

Notes

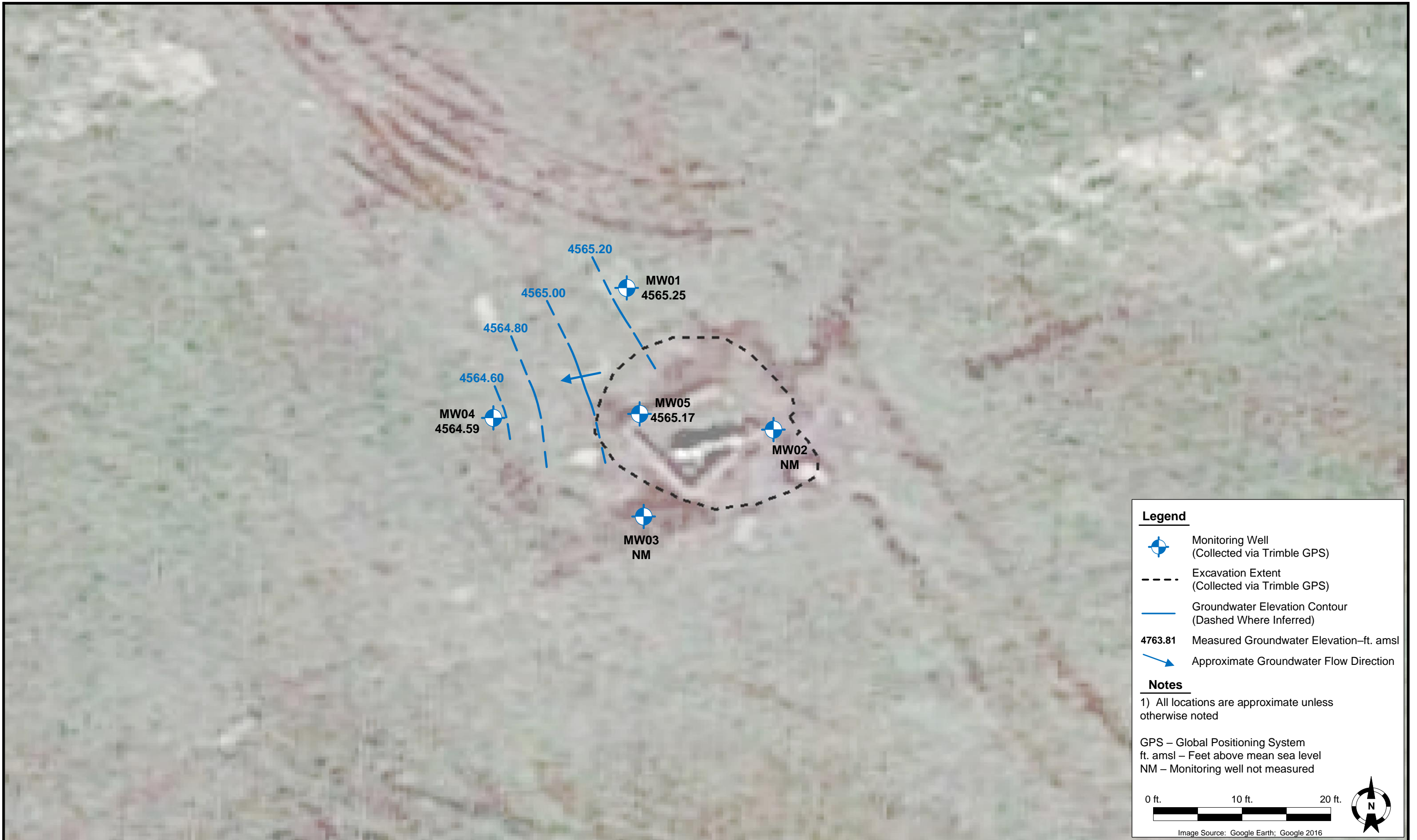
1) All locations are approximate unless otherwise noted

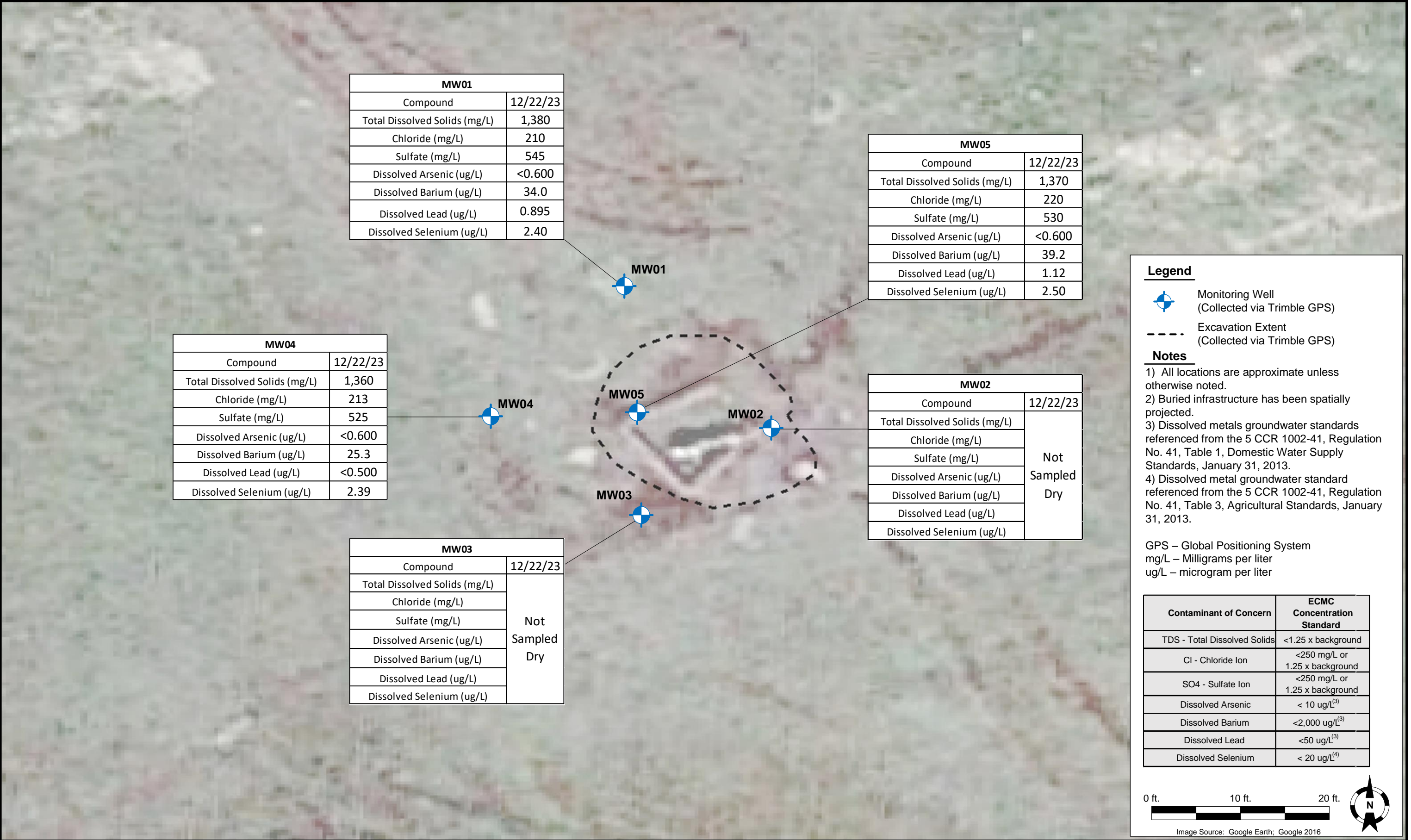
GPS – Global Positioning System

0 ft.10 ft.20 ft.

Image Source: Google Earth; Google 2016

DATE: 5/22/2023	<div></div> <div>TASMAN Tasman, Inc. 6855 W 119th Ave. Broomfield, CO 80020</div>	<div>Noble Energy, Inc. – DJ Basin Loustalet B15-15X SWSE, Section 15, Township 5 North, Range 64 West Weld County, Colorado</div>	Site Overview Map	FIGURE 2
DESIGNED BY: JW				
DRAWN BY: AE				





Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 05, 2024

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

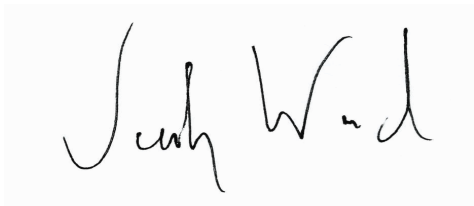
Broomfield, CO 80020

RE: Noble - Loustalet B15-15X

Work Order #2312481

Enclosed are the results of analyses for samples received by Summit Scientific on 12/26/23 17:28. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

Jacob Wood For Paul Shrewsbury

President



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

Project: Noble - Loustalet B15-15X

Project Number: UWRWE-A1694-ABN
Project Manager: Jacob Whritenour

Reported:
01/05/24 13:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	2312481-01	Water	12/22/23 10:35	12/26/23 17:28
MW04	2312481-02	Water	12/22/23 10:10	12/26/23 17:28
MW05	2312481-03	Water	12/22/23 10:20	12/26/23 17:28

Summit Scientific

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


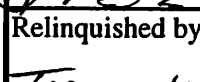
SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2312481	

Send Data To:		Send Invoice To:	
Client: Noble / Tasman Inc.		Company: Noble Energy, Inc.	
Address: 6855 W. 119th. Ave.		Project Name/Location: Lousale + B15-15X	
City/State/Zip: Broomfield / CO / 80020		AFE#:	
Phone: 303-487-1228		PO/Billing Codes:	
Sampler Name: Dalton Hagen		Contact: Dan Peterson	
Project Manager: Jake Whritenour		Project Number: N/A	
E-Mail: Jwhritenour@tasman-geo.com			

				Preservative				Matrix				Analysis Requested								Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX	Naphthalene	1,2,4-TMB	1,3,5-TMB	TDS	Chloride	Sulfate	PAH	Dissolved metals
1	MW01	12/22/23	1035	2			2		X								X	X	X		X
2	MW04	I	1010	I			I		I								I	I	I		I
3	MW05	I	1020	I			I		I								I	I	I		I
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by: 	Date/Time: 12/22/23 1315	Received by: Tasman Lockbox	Date/Time: 12/22/23 1315	TAT Business Days	Field DO	Notes:
Relinquished by: Tasman Lockbox	Date/Time: 12/22/23 1728	Received by: 	Date/Time: 12/22/23 1728	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 5.6				Corrected Temperature: 0	IR gun #: 1	HNO3 lot #:
				Standard	X	Field Turb.

S₂

Sample Receipt Checklist

S2 Work Order# 2312481Client: Noble GasmanClient Project ID: Loustalet BG-13XShipped 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)

8.4

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature $< 6^{\circ}\text{C}$? ⁽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 checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H_2SO_4 , NaOH, HNO_3 , etc.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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.
AS
Custodian Printed Name

12/26/23
Date/Time



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

Project: Noble - Loustalet B15-15X
Project Number: UWRWE-A1694-ABN
Project Manager: Jacob Whritenour

Reported:
01/05/24 13:58

MW01
2312481-01 (Water)

Summit Scientific

Dissolved Metals by EPA Method 200.8

Date Sampled: **12/22/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	ND	0.600		ug/l	1	BGL0905	12/27/23	12/27/23	EPA 200.8	
Barium	34.0	1.00		"	"	"	"	"	"	
Lead	0.895	0.500		"	"	"	"	"	"	
Selenium	2.40	1.00		"	"	"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **12/22/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	210	12.0		mg/L	200	BHA0042	01/02/24	01/03/24	EPA 300.0	
Sulfate	545	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **12/22/23 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1380	10.0		mg/L	1	BGL0998	12/28/23	12/28/23	SM2540C	

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 - Loustalet B15-15X
Project Number: UWRWE-A1694-ABN
Project Manager: Jacob Whritenour

Reported:
01/05/24 13:58

MW04
2312481-02 (Water)

Summit Scientific

Dissolved Metals by EPA Method 200.8

Date Sampled: **12/22/23 10:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	ND	0.600	ug/l	1	BGL0905	12/27/23	12/27/23	EPA 200.8	
Barium	25.3	1.00	"	"	"	"	"	"	
Lead	ND	0.500	"	"	"	"	"	"	
Selenium	2.39	1.00	"	"	"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **12/22/23 10:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	213	12.0	mg/L	200	BHA0042	01/02/24	01/03/24	EPA 300.0	
Sulfate	525	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **12/22/23 10:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	1360	10.0	mg/L	1	BGL0998	12/28/23	12/28/23	SM2540C	

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Noble - Loustalet B15-15X
Project Number: UWRWE-A1694-ABN
Project Manager: Jacob Whritenour

Reported:
01/05/24 13:58

MW05
2312481-03 (Water)

Summit Scientific

Dissolved Metals by EPA Method 200.8

Date Sampled: **12/22/23 10:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	ND	0.600	ug/l	1	BGL0905	12/27/23	12/27/23	EPA 200.8	
Barium	39.2	1.00	"	"	"	"	"	"	
Lead	1.12	0.500	"	"	"	"	"	"	
Selenium	2.50	1.00	"	"	"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **12/22/23 10:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	220	12.0	mg/L	200	BHA0042	01/02/24	01/03/24	EPA 300.0	
Sulfate	530	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **12/22/23 10:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	1370	10.0	mg/L	1	BGL0998	12/28/23	12/28/23	SM2540C	

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

Project: Noble - Loustalet B15-15X
Project Number: UWRWE-A1694-ABN
Project Manager: Jacob Whritenour

Reported:
01/05/24 13:58

Dissolved Metals by EPA Method 200.8 - Quality Control

Summit Scientific

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

Batch BGL0905 - EPA 200.8

Blank (BGL0905-BLK1)

Prepared & Analyzed: 12/27/23

Arsenic	ND	0.600	ug/l
Barium	ND	1.00	"
Lead	ND	0.500	"
Selenium	ND	1.00	"

LCS (BGL0905-BS1)

Prepared & Analyzed: 12/27/23

Arsenic	428	0.600	ug/l	500	85.7	85-115
Barium	464	1.00	"	500	92.8	85-115
Lead	250	0.500	"	250	100	85-115
Selenium	54.3	1.00	"	50.0	109	85-115

Duplicate (BGL0905-DUP1)

Source: 2312429-01

Prepared & Analyzed: 12/27/23

Arsenic	1.56	0.600	ug/l	1.68	7.11	20
Barium	49.8	1.00	"	49.6	0.392	20
Lead	0.120	0.500	"	0.130	8.00	20
Selenium	0.995	1.00	"	1.10	10.5	20

Matrix Spike (BGL0905-MS1)

Source: 2312429-01

Prepared & Analyzed: 12/27/23

Arsenic	437	0.600	ug/l	500	1.68	87.1	70-130
Barium	509	1.00	"	500	49.6	91.9	70-130
Lead	247	0.500	"	250	0.130	98.6	70-130
Selenium	76.6	1.00	"	50.0	1.10	151	70-130

QM-07

Matrix Spike Dup (BGL0905-MSD1)

Source: 2312429-01

Prepared & Analyzed: 12/27/23

Arsenic	441	0.600	ug/l	500	1.68	87.9	70-130	0.902	25
Barium	509	1.00	"	500	49.6	91.9	70-130	0.0108	25
Lead	249	0.500	"	250	0.130	99.6	70-130	0.984	25
Selenium	74.2	1.00	"	50.0	1.10	146	70-130	3.13	25

QM-07

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 - Loustalet B15-15X
Project Number: UWRWE-A1694-ABN
Project Manager: Jacob Whritenour

Reported:
01/05/24 13:58

Anions by EPA Method 300.0 - Quality Control
Summit Scientific

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

Batch BHA0042 - General Preparation

Blank (BHA0042-BLK1)

Prepared & Analyzed: 01/02/24

Chloride	ND	0.0600	mg/L
Sulfate	ND	0.300	"

LCS (BHA0042-BS1)

Prepared & Analyzed: 01/02/24

Chloride	3.21	0.0600	mg/L	3.00	107	90-110
Sulfate	15.5	0.300	"	15.0	104	90-110

Duplicate (BHA0042-DUP1)

Source: 2312437-01

Prepared & Analyzed: 01/02/24

Chloride	42.6	12.0	mg/L	38.8	9.34	20
Sulfate	392	60.0	"	437	10.8	20

Matrix Spike (BHA0042-MS1)

Source: 2312437-01

Prepared & Analyzed: 01/02/24

Chloride	637	12.0	mg/L	600	38.8	99.7	80-120
Sulfate	3310	60.0	"	3000	437	95.7	80-120

Summit Scientific

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

Project: Noble - Loustalet B15-15X
Project Number: UWRWE-A1694-ABN
Project Manager: Jacob Whritenour

Reported:
01/05/24 13:58

Total Dissolved Solids by SM2540C - Quality Control
Summit Scientific

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

Batch BGL0998 - General Preparation

Blank (BGL0998-BLK1)

Prepared & Analyzed: 12/28/23

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BGL0998-DUP1)

Source: 2312467-01

Prepared & Analyzed: 12/28/23

Total Dissolved Solids 1840 10.0 mg/L 1770 4.05 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.



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

Project: Noble - Loustalet B15-15X

Project Number: UWRWE-A1694-ABN
Project Manager: Jacob Whritenour

Reported:
01/05/24 13:58

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
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