

THIRD QUARTER 2023 SITE MONITORING DATA
THOMPSON D20-31D

ECMC SPILL TRACKING # 483919
ECMC REMEDIATION # 26337

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. - THOMPSON D20-31D FACILITY

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)
BH01	06/19/23	4737.51	14.40	4.92	ND	ND	4733.01
BH01	09/01/23	4737.51	14.42	4.43	ND	ND	4733.50
BH02	06/19/23	4738.31	14.57	5.62	ND	ND	4732.98
BH02	09/01/23	4738.31	14.57	5.39	ND	ND	4733.21
BH03	06/19/23	4737.75	14.88	5.01	ND	ND	4733.07
BH03	09/01/23	4737.75	14.87	4.66	ND	ND	4733.42
BH04	06/19/23	4738.35	14.77	5.74	ND	ND	4733.00
BH04	09/01/23	4738.35	14.70	5.38	ND	ND	4733.36
BH05	06/19/23	4737.21	14.85	5.89	ND	ND	4732.76
BH05	09/01/23	4737.21	14.91	5.76	ND	ND	4732.89
BH06	06/19/23	4737.67	14.73	5.30	ND	ND	4732.83
BH06	09/01/23	4737.67	14.76	4.93	ND	ND	4733.20
BH07	06/19/23	4737.73	14.74	5.40	ND	ND	4732.70
BH07	09/01/23	4737.73	14.69	5.32	ND	ND	4732.78
BH08	06/19/23	4738.15	14.41	5.63	ND	ND	4732.77
BH08	09/01/23	4738.15	14.68	5.43	ND	ND	4732.97
BH09	06/19/23	4738.15	15.02	5.66	ND	ND	4732.88
BH09	09/01/23	4738.15	15.07	5.41	ND	ND	4733.13
BH10	06/19/23	4742.54	18.61	5.66	ND	ND	4732.76
BH10	09/01/23	4742.54	18.65	5.52	ND	ND	4732.90
BH11	06/19/23	4738.51	15.01	5.87	ND	ND	4732.81
BH11	09/01/23	4738.51	14.99	5.71	ND	ND	4732.97
BH12	06/19/23	4737.90	14.97	5.30	ND	ND	4732.89
BH12	09/01/23	4737.90	14.96	5.16	ND	ND	4733.03
BH13	06/19/23	4742.50	18.56	5.82	ND	ND	4732.95
BH13	09/01/23	4742.50	18.56	5.71	ND	ND	4733.06

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:

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. - THOMPSON D20-31D FACILITY

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)	1-M (µg/L)	2-M (µg/L)	TDS (mg/L)	Chloride Ion (mg/L)	Sulfate Ion (mg/L)
ECMC Standard		5	560	700	1,400	140	67	67	1.1 ⁽²⁾	3.6 ⁽²⁾	<1.25 x Background	250 or <1.25 x Background	250 or <1.25 x Background
BH01	06/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	683	21.4	171
BH01	09/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	1,560	156	511
BH02	06/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,530	333	1,420
BH02	09/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,300	260	681
⁽³⁾ BH03	06/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,280	326	1,220
⁽³⁾ BH03	09/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,030	244	684
BH04	06/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,350	295	1,270
BH04	09/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,600	284	935
BH05	06/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	1,110	89.0	377
BH05	09/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	1,780	178	582
BH06	06/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,400	319	1,400
BH06	09/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,350	264	870
BH07	06/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	1,080	53.2	239
BH07	09/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	1,730	149	542
BH08	06/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,430	330	1,300
BH08	09/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,170	211	735
BH09	06/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,340	314	1,500
BH09	09/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,000	232	710
BH10	06/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,750	388	1,610
BH10	09/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	1,840	203	618
BH11	06/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,270	347	1,290
BH11	09/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,160	232	777
BH12	06/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,260	297	1,220
BH12	09/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	1,930	241	682
BH13	06/19/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	2,710	382	1,560
BH13	09/01/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	1,940	237	714

Notes:

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

⁽²⁾ Groundwater standards referenced from USEPA Regional Screening Level (RSL) Resident Tapwater Table (TR=1E-06, HQ=0.1) November 2022.

⁽³⁾ Monitoring well used for inorganic background levels.

Definitions:

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

ECMC = Energy and Carbon Management Commission

mg/L = Milligrams per liter

NS = No standard

µg/L = Micrograms per liter

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

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

Benz(a) = Benzantrhacene

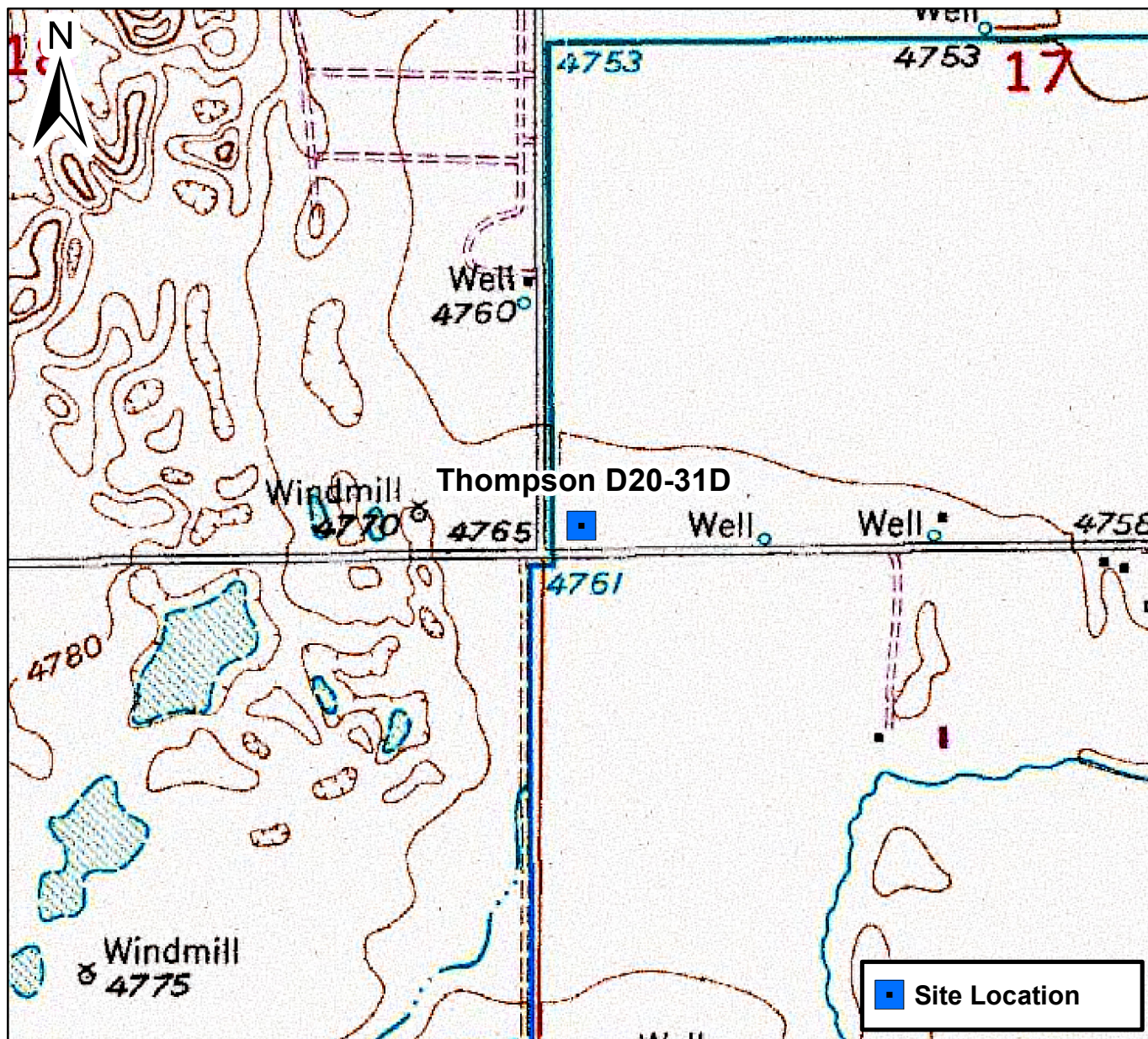
1-M = 1-Methylnaphthalene

2-M = 2-Methylnaphthalene

TDS = Total Dissolved Solids

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

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 1,000 2,000 Feet

Figure 1

Site Location Map
Thompson D20-31D
SWSW S17 T3N R64W
Weld County, Colorado





Legend

Monitoring Well Location
(Collected via Trimble GPS)

Excavation Extent
(Collected via Trimble GPS)


Notes

1) All locations are approximate unless otherwise noted.
2) Buried infrastructure has been spatially projected.

GPS – Global Positioning System

0 ft. 15 ft. 30 ft.

Image Source: Google Earth 2021

DATE: 07/26/2023	 TASMAN Tasman, Inc. 6855 W 119 th Avenue Broomfield, CO 80020	Noble Energy, Inc. – DJ Basin Thompson D20-31D FAC SWSW, Section 17, Township 3 North, Range 64 West Weld County, Colorado	Site Overview Map	Figure 2
DESIGNED BY: JW				
DRAWN BY: HM				



DATE:	10/12/2023
DESIGNED BY:	JW
DRAWN BY:	MK



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

Noble Energy, Inc. – DJ Basin
Thompson D20-31D FAC
SWSW, Section 17, Township 3 North, Range 64 West
Weld County, Colorado

Groundwater Potentiometric
Surface Map
(09/01/2023)

Figure
3

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 19, 2023

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

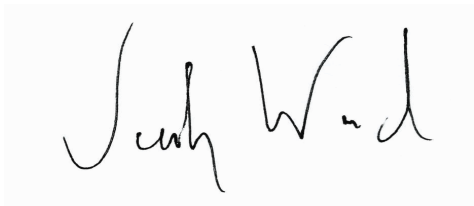
Broomfield, CO 80020

RE: Noble - Thompson D20-31D

Work Order #2309022

Enclosed are the results of analyses for samples received by Summit Scientific on 09/01/23 17:41. 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 - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	2309022-01	Water	09/01/23 11:57	09/01/23 17:41
BH02	2309022-02	Water	09/01/23 11:57	09/01/23 17:41
BH03	2309022-03	Water	09/01/23 11:42	09/01/23 17:41
BH04	2309022-04	Water	09/01/23 11:42	09/01/23 17:41
BH05	2309022-05	Water	09/01/23 11:30	09/01/23 17:41
BH06	2309022-06	Water	09/01/23 11:20	09/01/23 17:41
BH07	2309022-07	Water	09/01/23 11:20	09/01/23 17:41
BH08	2309022-08	Water	09/01/23 11:30	09/01/23 17:41
BH09	2309022-09	Water	09/01/23 12:10	09/01/23 17:41
BH10	2309022-10	Water	09/01/23 12:38	09/01/23 17:41
BH11	2309022-11	Water	09/01/23 12:10	09/01/23 17:41
BH12	2309022-12	Water	09/01/23 12:22	09/01/23 17:41
BH13	2309022-13	Water	09/01/23 12:23	09/01/23 17:41

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
2309022	

Client: Noble/Tasman		Send Data To:	Send Invoice To:
Address: 6855 W. 119th Ave.		Project Manager: Jake Whritenour	Company: Noble
City/State/Zip: Broomfield/CO/ 80020		E-Mail: Jwhritenour@tasman-geo.com	Project Name/Location: Thompson D20-31D
Phone: 602-881-5716		Project Name: Thompson D20-31D	AFE#:
Sampler Name: McKenzie Reynolds		Project Number: N/A	PO/Billing Codes:
		Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX	Napthalene	1,2,4 TMB	1,3,5 TMB	TDS	Chlorine	Sulfate	mn-1, mn-2	
1	BH01	9/1/23	11:59	6	3		3		X				X	X	X	X	X	X	X	X	
2	BH02		11:57										X	X	X	X	X	X	X	X	
3	BH03		11:42																		
4	BH04		11:42																		
5	BH05		11:30																		
6	BH06		11:20																		
7	BH07		11:20																		
8	BH08		11:30																		
9	BH09		12:10																		
10	BH10		12:38																		
11	BH11		12:10																		
12	BH12		12:22																		
13	BH13		12:23																		
14																					
15																					

Relinquished by: Aiden Franklin Auden Reynolds	Date/Time: 9/1/23 14:14	Received by: Tasman Lock Box	Date/Time: 9/1/23 14:14	TAT Business Days	Field DO	Notes:
Relinquished by: Tasman Lock Box	Date/Time: 9/23 1741	Received by: [Signature]	Date/Time: 9/23 1741	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: 13.1	Corrected Temperature: 6	IR gun #: 1	HNO3 lot #:	Standard	X Field Turb.	

S₂

Sample Receipt Checklist

S2 Work Order# 2309022Client: Noble / Tassman Client Project ID: Thompson D20-310Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #:

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

Matrix (Check all that apply) Air ☐ Soil/Solid ☐ Water ☒ Other ☐Temp (°C) 13.1Thermometer # 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 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	second amber label incomplete
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)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCl
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

AS 8/1/23
Date/Time

B-11-11



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

Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

BH01
2309022-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/01/23 11:57**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BGI0128	09/06/23	09/07/23	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: **09/01/23 11:57**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	16.5	124 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	17.0	128 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.9	96.5 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **09/01/23 11:57**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
1-Methylnaphthalene	ND	0.500	ug/l	1	BGI0109	09/06/23	09/06/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **09/01/23 11:57**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10	1.01	50.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.10	55.1 %	40-150		"	"	"	"	

Anions by EPA Method 300.0

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 - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

BH01
2309022-01 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **09/01/23 11:57**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	156	12.0		mg/L	200	BGI0353	09/13/23	09/14/23	EPA 300.0	
Sulfate	511	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **09/01/23 11:57**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1560	10.0		mg/L	1	BGI0092	09/05/23	09/05/23	SM2540C	

Summit Scientific

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

Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

BH02
2309022-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/01/23 11:57**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGI0128	09/06/23	09/07/23	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: **09/01/23 11:57**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	16.3	123 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	17.3	130 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.2	98.6 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **09/01/23 11:57**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.500	ug/l	1	BGI0109	09/06/23	09/06/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **09/01/23 11:57**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.72	85.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.59	79.5 %	40-150		"	"	"	"	

Anions by EPA Method 300.0

Summit Scientific

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

Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

BH02
2309022-02 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **09/01/23 11:57**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	260	12.0		mg/L	200	BGI0353	09/13/23	09/14/23	EPA 300.0	
Sulfate	681	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **09/01/23 11:57**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2300	10.0		mg/L	1	BGI0092	09/05/23	09/05/23	SM2540C	

Summit Scientific

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Broomfield CO, 80020

Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

BH03
2309022-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/01/23 11:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGI0128	09/06/23	09/07/23	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: **09/01/23 11:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	16.1	121 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	17.5	131 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.0	97.9 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **09/01/23 11:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.500	ug/l	1	BGI0109	09/06/23	09/06/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **09/01/23 11:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.82	91.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.60	79.8 %	40-150		"	"	"	"	

Anions by EPA Method 300.0

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Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

BH03
2309022-03 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **09/01/23 11:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	244	12.0		mg/L	200	BGI0353	09/13/23	09/14/23	EPA 300.0	
Sulfate	684	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **09/01/23 11:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2030	10.0		mg/L	1	BGI0092	09/05/23	09/05/23	SM2540C	

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Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

BH04
2309022-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/01/23 11:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGI0128	09/06/23	09/07/23	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: **09/01/23 11:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	15.4	115 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	17.2	129 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.0	97.5 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **09/01/23 11:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.500	ug/l	1	BGI0109	09/06/23	09/06/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **09/01/23 11:42**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.51	75.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.37	68.6 %	40-150		"	"	"	"	

Anions by EPA Method 300.0

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Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

BH04
2309022-04 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **09/01/23 11:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	284	12.0		mg/L	200	BGI0353	09/13/23	09/14/23	EPA 300.0	
Sulfate	935	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **09/01/23 11:42**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2600	10.0		mg/L	1	BGI0092	09/05/23	09/05/23	SM2540C	

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Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

BH05
2309022-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/01/23 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BGI0128	09/06/23	09/07/23	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: **09/01/23 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	15.6	117 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	17.4	131 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.9	96.8 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **09/01/23 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1-Methylnaphthalene	ND	0.500	ug/l	1	BGI0109	09/06/23	09/06/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **09/01/23 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	1.54	76.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.59	79.6 %	40-150		"	"	"	"	

Anions by EPA Method 300.0

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Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

BH05
2309022-05 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **09/01/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	178	12.0		mg/L	200	BGI0353	09/13/23	09/14/23	EPA 300.0	
Sulfate	582	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **09/01/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1780	10.0		mg/L	1	BGI0092	09/05/23	09/05/23	SM2540C	

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Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

BH06
2309022-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/01/23 11:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGI0128	09/06/23	09/07/23	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: **09/01/23 11:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	15.8	119 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	17.3	130 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.0	97.4 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **09/01/23 11:20**

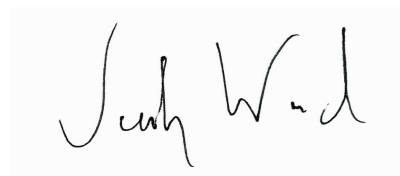
Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.500	ug/l	1	BGI0109	09/06/23	09/06/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **09/01/23 11:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.74	86.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.80	89.8 %	40-150		"	"	"	"	

Anions by EPA Method 300.0

Summit Scientific



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Broomfield CO, 80020

Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

BH06
2309022-06 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **09/01/23 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	264	12.0		mg/L	200	BGI0353	09/13/23	09/14/23	EPA 300.0	
Sulfate	870	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **09/01/23 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2350	10.0		mg/L	1	BGI0092	09/05/23	09/05/23	SM2540C	

Summit Scientific

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Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

BH07
2309022-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/01/23 11:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGI0128	09/06/23	09/07/23	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: **09/01/23 11:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	16.0	120 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	17.8	134 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.8	95.9 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **09/01/23 11:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.500	ug/l	1	BGI0109	09/06/23	09/06/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **09/01/23 11:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.55	77.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.65	82.3 %	40-150		"	"	"	"	

Anions by EPA Method 300.0

Summit Scientific

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

Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

BH07
2309022-07 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **09/01/23 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	149	12.0		mg/L	200	BGI0353	09/13/23	09/14/23	EPA 300.0	
Sulfate	542	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **09/01/23 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1730	10.0		mg/L	1	BGI0092	09/05/23	09/05/23	SM2540C	

Summit Scientific

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Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

BH08
2309022-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/01/23 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGI0128	09/06/23	09/07/23	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: **09/01/23 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	15.9	119 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	16.9	127 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.6	94.5 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **09/01/23 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.500	ug/l	1	BGI0109	09/06/23	09/06/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **09/01/23 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.74	86.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.73	86.4 %	40-150		"	"	"	"	

Anions by EPA Method 300.0

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
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Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

BH08
2309022-08 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **09/01/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	211	12.0		mg/L	200	BGI0353	09/13/23	09/14/23	EPA 300.0	
Sulfate	735	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **09/01/23 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2170	10.0		mg/L	1	BGI0092	09/05/23	09/05/23	SM2540C	

Summit Scientific

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

Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

BH09
2309022-09 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/01/23 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGI0128	09/06/23	09/07/23	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: **09/01/23 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	16.3	122 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	17.4	131 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.8	96.4 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **09/01/23 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.500	ug/l	1	BGI0109	09/06/23	09/06/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **09/01/23 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.77	88.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.59	79.5 %	40-150		"	"	"	"	

Anions by EPA Method 300.0

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

Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

BH09
2309022-09 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **09/01/23 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	232	12.0		mg/L	200	BGI0353	09/13/23	09/14/23	EPA 300.0	
Sulfate	710	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **09/01/23 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2000	10.0		mg/L	1	BGI0092	09/05/23	09/05/23	SM2540C	

Summit Scientific

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Broomfield CO, 80020

Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

BH10
2309022-10 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/01/23 12:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGI0128	09/06/23	09/07/23	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: **09/01/23 12:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	15.4	115 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	16.8	126 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.9	96.5 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **09/01/23 12:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.500	ug/l	1	BGI0109	09/06/23	09/06/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **09/01/23 12:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.74	87.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.53	76.3 %	40-150		"	"	"	"	

Anions by EPA Method 300.0

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Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

BH10
2309022-10 (Water)

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Anions by EPA Method 300.0

Date Sampled: **09/01/23 12:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	203	12.0		mg/L	200	BGI0353	09/13/23	09/14/23	EPA 300.0	
Sulfate	618	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **09/01/23 12:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1840	10.0		mg/L	1	BGI0092	09/05/23	09/05/23	SM2540C	

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Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

BH11
2309022-11 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/01/23 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGI0128	09/06/23	09/07/23	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: **09/01/23 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	16.2	122 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	17.8	134 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.1	98.3 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **09/01/23 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.500	ug/l	1	BGI0109	09/06/23	09/06/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **09/01/23 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.71	85.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.65	82.6 %	40-150		"	"	"	"	

Anions by EPA Method 300.0

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Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

BH11
2309022-11 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **09/01/23 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	232	12.0		mg/L	200	BGI0353	09/13/23	09/14/23	EPA 300.0	
Sulfate	777	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **09/01/23 12:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2160	10.0		mg/L	1	BGI0092	09/05/23	09/05/23	SM2540C	

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Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

BH12
2309022-12 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/01/23 12:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BGI0128	09/06/23	09/07/23	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: **09/01/23 12:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	17.3	130 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	17.6	132 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.1	98.5 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **09/01/23 12:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1-Methylnaphthalene	ND	0.500	ug/l	1	BGI0109	09/06/23	09/06/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **09/01/23 12:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	1.63	81.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.58	79.0 %	40-150		"	"	"	"	

Anions by EPA Method 300.0

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Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

BH12
2309022-12 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **09/01/23 12:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	241	12.0		mg/L	200	BGI0353	09/13/23	09/14/23	EPA 300.0	
Sulfate	682	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **09/01/23 12:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1930	10.0		mg/L	1	BGI0092	09/05/23	09/05/23	SM2540C	

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Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

BH13
2309022-13 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/01/23 12:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGI0128	09/06/23	09/07/23	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: **09/01/23 12:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	16.1	121 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	17.5	131 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.0	97.3 %	21-167		"	"	"	"	

PAH by EPA Method 8270D SIM

Date Sampled: **09/01/23 12:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.500	ug/l	1	BGI0109	09/06/23	09/07/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **09/01/23 12:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.66	83.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.49	74.5 %	40-150		"	"	"	"	

Anions by EPA Method 300.0

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Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

BH13
2309022-13 (Water)

Summit Scientific

Anions by EPA Method 300.0

Date Sampled: **09/01/23 12:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	237	12.0		mg/L	200	BGI0353	09/13/23	09/14/23	EPA 300.0	
Sulfate	714	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **09/01/23 12:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1940	10.0		mg/L	1	BGI0092	09/05/23	09/05/23	SM2540C	

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Broomfield CO, 80020

Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

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 BGI0128 - EPA 5030 Water MS

Blank (BGI0128-BLK1)

Prepared & Analyzed: 09/06/23

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	16.6		"	13.3		124	23-173			
Surrogate: Toluene-d8	16.6		"	13.3		124	20-170			
Surrogate: 4-Bromofluorobenzene	13.7		"	13.3		103	21-167			

LCS (BGI0128-BS1)

Prepared & Analyzed: 09/06/23

Benzene	52.7	1.0	ug/l	50.0		105	51-132			
Toluene	53.1	1.0	"	50.0		106	51-138			
Ethylbenzene	57.7	1.0	"	50.0		115	58-146			
m,p-Xylene	107	2.0	"	100		107	57-144			
o-Xylene	51.3	1.0	"	50.0		103	53-146			
Naphthalene	42.0	1.0	"	50.0		84.0	70-130			
1,2,4-Trimethylbenzene	48.5	1.0	"	50.0		97.0	70-130			
1,3,5-Trimethylbenzene	48.8	1.0	"	50.0		97.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.3		104	23-173			
Surrogate: Toluene-d8	13.4		"	13.3		101	20-170			
Surrogate: 4-Bromofluorobenzene	12.3		"	13.3		92.6	21-167			

Matrix Spike (BGI0128-MS1)

Source: 2309022-02

Prepared & Analyzed: 09/06/23

Benzene	55.5	1.0	ug/l	50.0	ND	111	34-141			
Toluene	55.0	1.0	"	50.0	ND	110	27-151			
Ethylbenzene	62.1	1.0	"	50.0	ND	124	29-160			
m,p-Xylene	111	2.0	"	100	ND	111	20-166			
o-Xylene	54.3	1.0	"	50.0	ND	109	33-159			
Naphthalene	40.4	1.0	"	50.0	ND	80.7	70-130			
1,2,4-Trimethylbenzene	51.7	1.0	"	50.0	ND	103	70-130			
1,3,5-Trimethylbenzene	52.2	1.0	"	50.0	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	14.2		"	13.3		106	23-173			
Surrogate: Toluene-d8	13.2		"	13.3		98.7	20-170			
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.5	21-167			

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6855 W. 119th Ave.
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Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

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 BGI0128 - EPA 5030 Water MS

Matrix Spike Dup (BGI0128-MSD1)		Source: 2309022-02			Prepared & Analyzed: 09/06/23					
Benzene	44.3	1.0	ug/l	50.0	ND	88.5	34-141	22.5	30	
Toluene	46.0	1.0	"	50.0	ND	91.9	27-151	18.0	30	
Ethylbenzene	52.7	1.0	"	50.0	ND	105	29-160	16.4	30	
m,p-Xylene	92.3	2.0	"	100	ND	92.3	20-166	18.1	30	
o-Xylene	43.5	1.0	"	50.0	ND	87.1	33-159	22.1	30	
Naphthalene	49.3	1.0	"	50.0	ND	98.6	70-130	19.9	30	
1,2,4-Trimethylbenzene	42.5	1.0	"	50.0	ND	85.0	70-130	19.5	30	
1,3,5-Trimethylbenzene	42.7	1.0	"	50.0	ND	85.3	70-130	20.1	30	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	10.8		"	13.3		80.7	23-173			
Surrogate: Toluene-d8	13.5		"	13.3		101	20-170			
Surrogate: 4-Bromofluorobenzene	12.1		"	13.3		90.9	21-167			

Summit Scientific

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Broomfield CO, 80020

Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

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

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

Batch BGI0109 - EPA 5030 Water MS

Blank (BGI0109-BLK1)

Prepared & Analyzed: 09/06/23

1-Methylnaphthalene	ND	0.500	ug/l							
2-Methylnaphthalene	ND	0.500	"							
Surrogate: 2-Methylnaphthalene-d10	2.62		"	2.00		131	40-150			
Surrogate: Fluoranthene-d10	2.59		"	2.00		129	40-150			

LCS (BGI0109-BS1)

Prepared & Analyzed: 09/06/23

1-Methylnaphthalene	1.99	0.500	ug/l	2.00		99.5	30-120			
2-Methylnaphthalene	2.26	0.500	"	2.00		113	0-200			
Surrogate: 2-Methylnaphthalene-d10	1.63		"	2.00		81.3	40-150			
Surrogate: Fluoranthene-d10	1.94		"	2.00		97.2	40-150			

LCS Dup (BGI0109-BSD1)

Prepared & Analyzed: 09/06/23

1-Methylnaphthalene	2.10	0.500	ug/l	2.00		105	30-120	5.14	30	
2-Methylnaphthalene	2.21	0.500	"	2.00		111	0-200	1.94	200	
Surrogate: 2-Methylnaphthalene-d10	1.77		"	2.00		88.6	40-150			
Surrogate: Fluoranthene-d10	1.88		"	2.00		93.8	40-150			

Summit Scientific

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

Project: Noble - Thompson D20-31D

Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

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 BGI0353 - General Preparation

Blank (BGI0353-BLK1)

Prepared & Analyzed: 09/13/23

Chloride	ND	0.0600	mg/L
Sulfate	ND	0.300	"

LCS (BGI0353-BS1)

Prepared & Analyzed: 09/13/23

Chloride	3.22	0.0600	mg/L	3.00	107	90-110
Sulfate	14.9	0.300	"	15.0	99.6	90-110

Duplicate (BGI0353-DUP1)

Source: 2309021-01

Prepared & Analyzed: 09/13/23

Chloride	191	12.0	mg/L	196	2.58	20
Sulfate	1300	60.0	"	1340	3.26	20

Matrix Spike (BGI0353-MS1)

Source: 2309021-01

Prepared: 09/13/23 Analyzed: 09/14/23

Chloride	812	12.0	mg/L	600	196	103	80-120
Sulfate	4250	60.0	"	3000	1340	97.1	80-120

Summit Scientific

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

Project: Noble - Thompson D20-31D
Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

Total Dissolved Solids by SM2540C - Quality Control
Summit Scientific

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

Batch BGI0092 - General Preparation

Blank (BGI0092-BLK1)

Prepared & Analyzed: 09/05/23

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BGI0092-DUP1)

Source: 2309022-01

Prepared & Analyzed: 09/05/23

Total Dissolved Solids 1610 10.0 mg/L 1560 3.21 20

Summit Scientific

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

Project: Noble - Thompson D20-31D

Project Number: UWRWE-A2800-ABN
Project Manager: Jacob Whritenour

Reported:
09/19/23 09:30

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