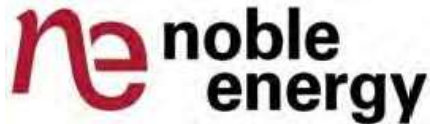


**FIRST QUARTER 2023 SITE MONITORING DATA**  
**HSR CHARLTON 08-20**

**COGCC SPILL TRACKING # 480746**  
**COGCC REMEDIATION # 19600**

Prepared for:



2115 117th Avenue  
Greeley, CO 80631

Prepared by:



6855 W. 119<sup>th</sup> Ave  
Broomfield, CO 80020

**TABLE 1**  
**GROUNDWATER ELEVATION DATA**  
**NOBLE ENERGY, INC. - HSR CHARLTON 08-20**

Monitoring Well ID	Date	Top of Casing Elevation (ft. AMSL)	Total Depth (ft. BTOC)	Depth to Water (ft.)	Depth to LNAPL (ft.)	LNAPL Thickness (ft.)	Groundwater Elevation* (ft. AMSL)
BH01	10/27/21	4786.35	10.70	1.63	ND	ND	4785.04
BH01	03/08/22	4786.35	10.45	3.36	ND	ND	4783.31
BH01	06/14/22	4786.35	10.42	1.75	ND	ND	4784.92
BH01	09/23/22	Not Sampled - Well Covered by Equipment					
BH01	12/29/22						
BH01	03/09/23	4786.35	10.42	2.80	ND	ND	4783.87
BH02	10/27/21	4786.51	10.32	1.98	ND	ND	4784.82
BH02	03/08/22	4786.51	10.30	3.75	ND	ND	4783.05
BH02	06/14/22	4786.51	10.24	2.12	ND	ND	4784.68
BH02	09/23/22	4786.51	10.17	1.95	ND	ND	4784.85
BH02	12/29/22	4786.51	10.16	3.59	ND	ND	4783.21
BH02	03/09/23	4786.51	9.96	3.21	ND	ND	4783.59
BH03	10/27/21	4786.75	11.92	1.80	ND	ND	4785.36
BH03	03/08/22	4786.75	11.71	3.57	ND	ND	4783.59
BH03	06/14/22	4786.75	11.68	1.86	ND	ND	4785.30
BH03	09/23/22	4786.75	11.58	1.77	ND	ND	4785.39
BH03	12/29/22	4786.75	11.45	3.49	ND	ND	4783.67
BH03	03/09/23	4786.75	11.40	2.94	ND	ND	4784.22
BH04	10/27/21	4786.98	13.55	1.96	ND	ND	4785.26
BH04	03/08/22	4786.98	13.29	3.68	ND	ND	4783.54
BH04	06/14/22	4786.98	12.72	2.05	ND	ND	4785.17
BH04	09/23/22	4786.98	12.45	1.98	ND	ND	4785.24
BH04	12/29/22	4786.98	12.38	3.58	ND	ND	4783.64
BH04	03/09/23	4786.98	12.04	3.07	ND	ND	4784.15
BH05	10/27/21	4786.32	10.38	1.94	ND	ND	4784.57
BH05	03/08/22	4786.32	10.45	3.58	ND	ND	4782.93
BH05	06/14/22	4786.32	10.44	2.09	ND	ND	4784.42
BH05	09/23/22	4786.32	10.52	1.94	ND	ND	4784.57
BH05	12/29/22	4786.32	10.49	3.49	ND	ND	4783.02
BH05	03/09/23	4786.32	10.34	3.08	ND	ND	4783.43

**Notes:**

<sup>(1)</sup> 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 approximately 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. - HSR CHARLTON 08-20

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)
COGCC Groundwater Standard <sup>(1)</sup>		5	560	700	1,400	140	67	67	1.1 <sup>(2)</sup>	3.6 <sup>(3)</sup>	<1.25 x Background	250 or <1.25 x Background	250 or <1.25 x Background
GW01	09/13/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA
BH01	10/27/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	728	203	273
BH01	03/08/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	664	93.8	29.8
BH01	06/14/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	1,920	416	467
BH01	09/23/22												
BH01	12/29/22												
BH01	03/09/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	581	130	141
BH02	10/27/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	1,280	348	634
BH02	03/08/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	945	192	93.6
BH02	06/14/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	2,220	540	644
BH02	09/23/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	1,080	374	641
BH02	12/29/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	596	98.6	72.8
BH02	03/09/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	590	115	129
BH03 <sup>(1)</sup>	10/27/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	1,070	298	388
BH03 <sup>(2)</sup>	03/08/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	1,370	292	314
BH03 <sup>(2)</sup>	06/14/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	2,660	551	954
BH03 <sup>(2)</sup>	09/23/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	688	189	280
BH03 <sup>(2)</sup>	12/29/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	594	91.0	73.8
BH03 <sup>(2)</sup>	03/09/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	661	117	149
BH04	10/27/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	836	212	374
BH04	03/08/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	780	151	103
BH04	06/14/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	1,230	221	306
BH04	09/23/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	518	168	216
BH04	12/29/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	560	95.2	73.8
BH04	03/09/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	634	105	155
BH05	10/27/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	816	215	365
BH05	03/08/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	640	111	57.8
BH05	06/14/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	NA	NA	988	161	145
BH05	09/23/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	868	187	203
BH05	12/29/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	518	72.2	76.2
BH05	03/09/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.500	<0.500	553	90.2	114

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

<sup>(2)</sup> Monitoring well used to determine background concentration levels

<sup>(3)</sup> Groundwater standards reference from USEPA Regional Screening Level (RSL) Resident Tapwater Table (TR=1E-06, HQ=0.1) November 2022

**Definitions:**

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

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

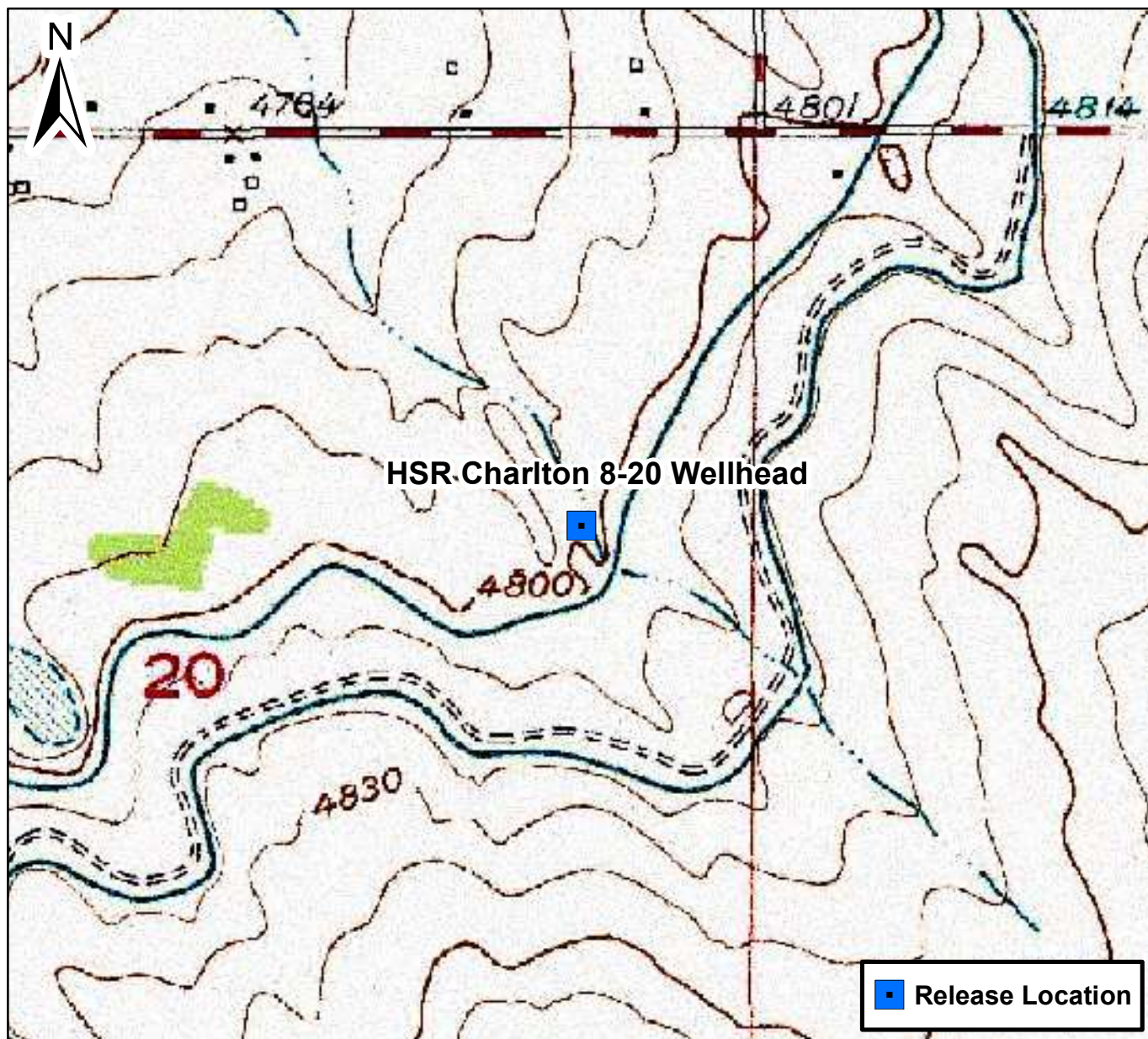
1-M = 1-Methylnaphthalene

2-M = 2-Methylnaphthalene

TDS = Total Dissolved Solids

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

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



0 875 1,750 Feet

## Figure 1

Site Location Map  
HSR Charlton 8-20 Wellhead  
SENE S20 T4N R65W  
Weld County, Colorado







<div><div><div>DATE:</div><div>07/20/2022</div></div><div><div>DESIGNED BY:</div><div>JW</div></div><div><div>DRAWN BY:</div><div>CA</div></div></div>	<div><div><div><div><div></div><div>TASMAN</div><div>GEOSCIENCES</div></div></div><div><div>Tasman Geosciences, Inc.</div><div>6855 W 119<sup>th</sup> Avenue</div><div>Broomfield, CO 80020</div></div></div></div>	<div><div><div>Noble Energy, Inc. – DJ Basin</div><div>HSR Charton 08-20 Wellhead</div><div>SENE, Section 20, Township 4 North, Range 65 West</div><div>Weld County, Colorado</div></div></div>	<div><div>Site Overview Map</div><div>FIGURE 2</div></div>







# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 17, 2023

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Noble - HSR Charlton 08-20

Work Order #2303241

Enclosed are the results of analyses for samples received by Summit Scientific on 03/09/23 18:06. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Scott Sheely For Ben Shrewsbury

Laboratory Manager





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

Project: Noble - HSR Charlton 08-20

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
03/17/23 10:46

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	2303241-01	Water	03/09/23 10:34	03/09/23 18:06
BH02	2303241-02	Water	03/09/23 10:22	03/09/23 18:06
BH03	2303241-03	Water	03/09/23 10:20	03/09/23 18:06
BH04	2303241-04	Water	03/09/23 10:06	03/09/23 18:06
BH05	2303241-05	Water	03/09/23 10:04	03/09/23 18:06

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.*

Client: Noble / Tasman, Inc.		Send Data To:		Send Invoice To:	
Address: 6855 W. 119th Ave.		Project Manager: Jake Whritenour		Company: Noble Energy, Inc.	
City/State/Zip: Broomfield / CO/ 80020		E-Mail: jwhritenour@tasman-geo.com		Project Name/Location: HSR Charlton 08-20	
Phone: 303-487-1228		Project Name: HSR Charlton 08-20		AFE#:	
Sampler Name: Patrick Kline		Project Number: N/A		PO/Billing Codes:	
				Contact: Dan Peterson	

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	
1	BH01	3/19/23	1034	5	3		2		X				X	X	X	X	X	X	X	X	X
2	BH02		2201																		
3	BH03		1020																		
4	BH04		1006																		
5	BH05		1004																		
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by:	Date/Time: 3/19/23 1400	Received by: Tasman Labbox	Date/Time: 3/19/23 1400	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time: 3/23 1800	Received by: Tasman Labbox	Date/Time: 3/23 1800	Same Day	Field EC	
Relinquished by:	Date/Time: 3/23 1800	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: 7.0	Corrected Temperature:	IR gun #:	HNO3 lot #:	Standard	Field Turb.	

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2303241Client: Noble Gasman Client Project ID: HSR Charleston 08-20Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #:                     
☐ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☐ Water ☒ Other ☐Temp (°C) 7.0Thermometer # 1

	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"/>	<u>on ice</u>
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 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"/>	<u>HCC</u>
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

3/4/23 1806



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

Project: Noble - HSR Charlton 08-20

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
03/17/23 10:46

**BH01**  
**2303241-01 (Water)**

**Summit Scientific**

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

Date Sampled: **03/09/23 10:34**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BGC0360	03/13/23	03/14/23	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: **03/09/23 10:34**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	16.3	122 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.8	104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.7	103 %	21-167		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/09/23 10:34**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
1-Methylnaphthalene	ND	0.500	ug/l	1	BGC0387	03/14/23	03/15/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **03/09/23 10:34**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10	1.40	69.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	2.30	115 %	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 - HSR Charlton 08-20

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
03/17/23 10:46

**BH01**  
**2303241-01 (Water)**

**Summit Scientific**

**Anions by EPA Method 300.0**

Date Sampled: **03/09/23 10:34**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Chloride</b>	<b>130</b>	12.0		mg/L	200	BGC0383	03/14/23	03/14/23	EPA 300.0	
<b>Sulfate</b>	<b>141</b>	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **03/09/23 10:34**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Total Dissolved Solids</b>	<b>581</b>	10.0		mg/L	1	BGC0367	03/13/23	03/13/23	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 - HSR Charlton 08-20

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
03/17/23 10:46

**BH02**  
**2303241-02 (Water)**

**Summit Scientific**

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

Date Sampled: **03/09/23 10:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGC0360	03/13/23	03/14/23	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: **03/09/23 10:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	15.8	118 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.9	105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.7	103 %	21-167		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/09/23 10:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.500	ug/l	1	BGC0387	03/14/23	03/15/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **03/09/23 10:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.03	51.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.42	71.0 %	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 - HSR Charlton 08-20

Project Number: [none]

Project Manager: Jacob Whritenour

**Reported:**  
03/17/23 10:46

**BH02**

**2303241-02 (Water)**

**Summit Scientific**

**Anions by EPA Method 300.0**

Date Sampled: **03/09/23 10:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	<b>115</b>	12.0		mg/L	200	BGC0383	03/14/23	03/14/23	EPA 300.0	
Sulfate	<b>129</b>	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **03/09/23 10:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	<b>590</b>	10.0		mg/L	1	BGC0367	03/13/23	03/13/23	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 - HSR Charlton 08-20

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
03/17/23 10:46

**BH03**  
**2303241-03 (Water)**

**Summit Scientific**

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

Date Sampled: **03/09/23 10:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGC0360	03/13/23	03/14/23	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: **03/09/23 10:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	16.2	122 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.8	104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.9	104 %	21-167		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/09/23 10:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.500	ug/l	1	BGC0387	03/14/23	03/15/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **03/09/23 10:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.18	59.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	2.09	105 %	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 - HSR Charlton 08-20

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
03/17/23 10:46

**BH03**  
**2303241-03 (Water)**

**Summit Scientific**

**Anions by EPA Method 300.0**

Date Sampled: **03/09/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Chloride</b>	<b>117</b>	12.0		mg/L	200	BGC0383	03/14/23	03/14/23	EPA 300.0	
<b>Sulfate</b>	<b>149</b>	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **03/09/23 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Total Dissolved Solids</b>	<b>661</b>	10.0		mg/L	1	BGC0367	03/13/23	03/13/23	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 - HSR Charlton 08-20

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
03/17/23 10:46

**BH04**  
**2303241-04 (Water)**

**Summit Scientific**

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

Date Sampled: **03/09/23 10:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGC0360	03/13/23	03/14/23	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: **03/09/23 10:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	16.4	123 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.8	103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	14.1	106 %	21-167		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/09/23 10:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.500	ug/l	1	BGC0387	03/14/23	03/15/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **03/09/23 10:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.14	57.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	2.02	101 %	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 - HSR Charlton 08-20

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
03/17/23 10:46

**BH04**  
**2303241-04 (Water)**

**Summit Scientific**

**Anions by EPA Method 300.0**

Date Sampled: **03/09/23 10:06**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Chloride</b>	<b>105</b>	12.0		mg/L	200	BGC0383	03/14/23	03/14/23	EPA 300.0	
<b>Sulfate</b>	<b>155</b>	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **03/09/23 10:06**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Total Dissolved Solids</b>	<b>634</b>	10.0		mg/L	1	BGC0367	03/13/23	03/13/23	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 - HSR Charlton 08-20

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
03/17/23 10:46

**BH05**  
**2303241-05 (Water)**

**Summit Scientific**

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

Date Sampled: **03/09/23 10:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGC0360	03/13/23	03/14/23	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: **03/09/23 10:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	16.1	121 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	14.0	105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.5	101 %	21-167		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Date Sampled: **03/09/23 10:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
1-Methylnaphthalene	ND	0.500	ug/l	1	BGC0387	03/14/23	03/15/23	EPA 8270D SIM	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **03/09/23 10:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.31	65.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	1.71	85.7 %	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 - HSR Charlton 08-20

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
03/17/23 10:46

**BH05**  
**2303241-05 (Water)**

**Summit Scientific**

**Anions by EPA Method 300.0**

Date Sampled: **03/09/23 10:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Chloride</b>	<b>90.2</b>	12.0		mg/L	200	BGC0383	03/14/23	03/14/23	EPA 300.0	
<b>Sulfate</b>	<b>114</b>	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **03/09/23 10:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Total Dissolved Solids</b>	<b>553</b>	10.0		mg/L	1	BGC0367	03/13/23	03/13/23	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 - HSR Charlton 08-20

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
03/17/23 10:46

## 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 BGC0360 - EPA 5030 Water MS

##### Blank (BGC0360-BLK1)

Prepared & Analyzed: 03/13/23

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	15.9		"	13.3		119	23-173			
Surrogate: Toluene-d8	14.0		"	13.3		105	20-170			
Surrogate: 4-Bromofluorobenzene	14.3		"	13.3		107	21-167			

##### LCS (BGC0360-BS1)

Prepared & Analyzed: 03/13/23

Benzene	43.6	1.0	ug/l	33.3		131	51-132			
Toluene	46.1	1.0	"	33.3		138	51-138			
Ethylbenzene	41.8	1.0	"	33.3		125	58-146			
m,p-Xylene	83.5	2.0	"	66.7		125	57-144			
o-Xylene	38.4	1.0	"	33.3		115	53-146			
Naphthalene	32.3	1.0	"	33.3		96.9	70-130			
1,2,4-Trimethylbenzene	40.1	1.0	"	33.3		120	70-130			
1,3,5-Trimethylbenzene	40.4	1.0	"	33.3		121	70-130			
Surrogate: 1,2-Dichloroethane-d4	16.5		"	13.3		124	23-173			
Surrogate: Toluene-d8	14.3		"	13.3		107	20-170			
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3		102	21-167			

##### Matrix Spike (BGC0360-MS1)

Source: 2303232-01

Prepared & Analyzed: 03/13/23

Benzene	44.9	1.0	ug/l	33.3	ND	135	34-141			
Toluene	45.8	1.0	"	33.3	ND	137	27-151			
Ethylbenzene	58.8	1.0	"	33.3	16.9	126	29-160			
m,p-Xylene	140	2.0	"	66.7	53.7	130	20-166			
o-Xylene	45.6	1.0	"	33.3	5.73	119	33-159			
Naphthalene	37.8	1.0	"	33.3	5.92	95.6	70-130			
1,2,4-Trimethylbenzene	57.0	1.0	"	33.3	18.9	114	70-130			
1,3,5-Trimethylbenzene	51.6	1.0	"	33.3	13.4	114	70-130			
Surrogate: 1,2-Dichloroethane-d4	16.9		"	13.3		127	23-173			
Surrogate: Toluene-d8	14.0		"	13.3		105	20-170			
Surrogate: 4-Bromofluorobenzene	14.3		"	13.3		107	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 - HSR Charlton 08-20

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
03/17/23 10:46

**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 BGC0360 - EPA 5030 Water MS**

Matrix Spike Dup (BGC0360-MSD1)	Source: 2303232-01			Prepared & Analyzed: 03/13/23						
Benzene	44.6	1.0	ug/l	33.3	ND	134	34-141	0.693	30	
Toluene	45.4	1.0	"	33.3	ND	136	27-151	0.878	30	
Ethylbenzene	55.5	1.0	"	33.3	16.9	116	29-160	5.71	30	
m,p-Xylene	130	2.0	"	66.7	53.7	114	20-166	8.01	30	
o-Xylene	44.3	1.0	"	33.3	5.73	116	33-159	2.69	30	
Naphthalene	39.6	1.0	"	33.3	5.92	101	70-130	4.65	30	
1,2,4-Trimethylbenzene	53.9	1.0	"	33.3	18.9	105	70-130	5.58	30	
1,3,5-Trimethylbenzene	47.8	1.0	"	33.3	13.4	103	70-130	7.51	30	
Surrogate: 1,2-Dichloroethane-d4	17.4		"	13.3		130	23-173			
Surrogate: Toluene-d8	14.0		"	13.3		105	20-170			
Surrogate: 4-Bromofluorobenzene	14.3		"	13.3		107	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 - HSR Charlton 08-20

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
03/17/23 10:46

## 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 BGC0387 - EPA 5030 Water MS

##### Blank (BGC0387-BLK1)

Prepared & Analyzed: 03/14/23

Acenaphthene	ND	0.500	ug/l								
Acenaphthylene	ND	0.200	"								
Anthracene	ND	0.200	"								
Benzo (a) anthracene	ND	0.100	"								
Benzo (b) fluoranthene	ND	0.200	"								
Benzo (k) fluoranthene	ND	0.200	"								
Benzo (g,h,i) perylene	ND	0.200	"								
Benzo (a) pyrene	ND	0.200	"								
Chrysene	ND	0.200	"								
Dibenz (a,h) anthracene	ND	0.200	"								
Fluoranthene	ND	2.00	"								
Fluorene	ND	0.200	"								
Indeno (1,2,3-cd) pyrene	ND	0.300	"								
Phenanthrene	ND	0.500	"								
Pyrene	ND	1.00	"								
1-Methylnaphthalene	ND	0.500	"								
2-Methylnaphthalene	ND	0.500	"								
Surrogate: 2-Methylnaphthalene-d10	2.03		"	2.00		102		40-150			
Surrogate: Fluoranthene-d10	2.23		"	2.00		112		40-150			

##### LCS (BGC0387-BS1)

Prepared & Analyzed: 03/14/23

Acenaphthene	1.94	0.500	ug/l	2.00		97.0		30-120			
Acenaphthylene	1.84	0.200	"	2.00		92.0		30-120			
Anthracene	1.87	0.200	"	2.00		93.7		30-120			
Benzo (a) anthracene	1.71	0.100	"	2.00		85.4		30-120			
Benzo (b) fluoranthene	1.92	0.200	"	2.00		95.9		30-120			
Benzo (k) fluoranthene	2.21	0.200	"	2.00		110		30-120			
Benzo (g,h,i) perylene	1.62	0.200	"	2.00		81.0		30-120			
Benzo (a) pyrene	1.95	0.200	"	2.00		97.5		30-120			
Chrysene	1.87	0.200	"	2.00		93.3		30-120			
Dibenz (a,h) anthracene	1.64	0.200	"	2.00		81.8		30-120			
Fluoranthene	1.96	2.00	"	2.00		97.9		30-120			
Fluorene	1.92	0.200	"	2.00		96.1		30-120			
Indeno (1,2,3-cd) pyrene	1.64	0.300	"	2.00		81.9		30-120			
Phenanthrene	2.11	0.500	"	2.00		106		30-120			
Pyrene	2.17	1.00	"	2.00		108		30-120			
1-Methylnaphthalene	1.79	0.500	"	2.00		89.7		30-120			
2-Methylnaphthalene	1.70	0.500	"	2.00		85.0		0-200			

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 - HSR Charlton 08-20

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
03/17/23 10:46

**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 BGC0387 - EPA 5030 Water MS**

**LCS (BGC0387-BS1)**

Prepared & Analyzed: 03/14/23

Surrogate: 2-Methylnaphthalene-d10	1.88		ug/l	2.00		93.8	40-150		
Surrogate: Fluoranthene-d10	2.21		"	2.00		111	40-150		

**LCS Dup (BGC0387-BS1)**

Prepared & Analyzed: 03/14/23

Acenaphthene	1.95	0.500	ug/l	2.00		97.3	30-120	0.373	30
Acenaphthylene	1.83	0.200	"	2.00		91.5	30-120	0.562	30
Anthracene	1.73	0.200	"	2.00		86.5	30-120	8.08	30
Benzo (a) anthracene	1.67	0.100	"	2.00		83.6	30-120	2.05	30
Benzo (b) fluoranthene	1.90	0.200	"	2.00		95.0	30-120	0.988	30
Benzo (k) fluoranthene	2.22	0.200	"	2.00		111	30-120	0.679	30
Benzo (g,h,i) perylene	1.56	0.200	"	2.00		78.0	30-120	3.71	30
Benzo (a) pyrene	1.91	0.200	"	2.00		95.5	30-120	2.10	30
Chrysene	1.84	0.200	"	2.00		92.2	30-120	1.19	30
Dibenz (a,h) anthracene	1.54	0.200	"	2.00		76.9	30-120	6.16	30
Fluoranthene	1.88	2.00	"	2.00		94.2	30-120	3.85	30
Fluorene	1.92	0.200	"	2.00		96.2	30-120	0.0957	30
Indeno (1,2,3-cd) pyrene	1.51	0.300	"	2.00		75.6	30-120	8.00	30
Phenanthrene	2.01	0.500	"	2.00		101	30-120	4.79	30
Pyrene	2.13	1.00	"	2.00		107	30-120	1.70	30
1-Methylnaphthalene	1.79	0.500	"	2.00		89.3	30-120	0.536	30
2-Methylnaphthalene	1.76	0.500	"	2.00		87.8	0-200	3.28	200
Surrogate: 2-Methylnaphthalene-d10	1.80		"	2.00		90.2	40-150		
Surrogate: Fluoranthene-d10	2.11		"	2.00		105	40-150		

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 - HSR Charlton 08-20

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
03/17/23 10:46

### 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 BGC0383 - General Preparation

##### Blank (BGC0383-BLK1)

Prepared & Analyzed: 03/14/23

Chloride	ND	0.0600	mg/L
Sulfate	ND	0.300	"

##### LCS (BGC0383-BS1)

Prepared & Analyzed: 03/14/23

Chloride	3.03	0.0600	mg/L	3.00	101	90-110
Sulfate	13.6	0.300	"	15.0	90.7	90-110

##### Duplicate (BGC0383-DUP1)

Source: 2303233-03

Prepared & Analyzed: 03/14/23

Chloride	302	12.0	mg/L	354	15.8	20
Sulfate	806	60.0	"	938	15.2	20

##### Matrix Spike (BGC0383-MS1)

Source: 2303233-03

Prepared & Analyzed: 03/14/23

Chloride	965	12.0	mg/L	600	354	102	80-120
Sulfate	3980	60.0	"	3000	938	101	80-120

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 - HSR Charlton 08-20

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
03/17/23 10:46

**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 BGC0367 - General Preparation**

**Blank (BGC0367-BLK1)**

Prepared & Analyzed: 03/13/23

Total Dissolved Solids ND 10.0 mg/L

**Duplicate (BGC0367-DUP1)**

**Source: 2303241-01**

Prepared & Analyzed: 03/13/23

Total Dissolved Solids 593 10.0 mg/L 581 1.98 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 - HSR Charlton 08-20

Project Number: [none]  
Project Manager: Jacob Whritenour

**Reported:**  
03/17/23 10:46

### 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