

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 23, 2025

Mike Medina

Tasman Geosciences

4725 Independence St.

Wheat Ridge, CO 80033

RE: Noble - Lyster E26-23 Flowline

Work Order #2503123

Enclosed are the results of analyses for samples received by Summit Scientific on 03/07/25 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Natalie Tessier For Paul Shrewsbury

President



Tasman Geosciences
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
 Project Number: UWRWE-A2952-ABN
 Project Manager: Mike Medina

Reported:
 04/23/25 10:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01@1.5-2.5'	2503123-01	Soil	03/07/25 10:05	03/07/25 16:30
BH01@3-4'	2503123-02	Soil	03/07/25 10:07	03/07/25 16:30
BH02@1.5-2.5'	2503123-03	Soil	03/07/25 10:20	03/07/25 16:30
BH02@3-4'	2503123-04	Soil	03/07/25 10:22	03/07/25 16:30
BH03@1.5-2.5'	2503123-05	Soil	03/07/25 10:15	03/07/25 16:30
BH03@3-4'	2503123-06	Soil	03/07/25 10:17	03/07/25 16:30
BH04@1.5-2.5'	2503123-07	Soil	03/07/25 09:50	03/07/25 16:30
BH04@3-4'	2503123-08	Soil	03/07/25 09:52	03/07/25 16:30
BH05@1.5-2.5'	2503123-09	Soil	03/07/25 09:58	03/07/25 16:30
BH05@3-4'	2503123-10	Soil	03/07/25 10:00	03/07/25 16:30
BG02@1.5-2.5'	2503123-11	Soil	03/07/25 11:20	03/07/25 16:30
BG02@3-4'	2503123-12	Soil	03/07/25 11:22	03/07/25 16:30
BG03@1.5-2.5'	2503123-13	Soil	03/07/25 11:10	03/07/25 16:30
BG03@3-4'	2503123-14	Soil	03/07/25 11:12	03/07/25 16:30
BG04@1.5-2.5'	2503123-15	Soil	03/07/25 11:15	03/07/25 16:30
BG04@3-4'	2503123-16	Soil	03/07/25 11:17	03/07/25 16:30
BG05@1.5-2.5'	2503123-17	Soil	03/07/25 11:00	03/07/25 16:30
BG05@3-4'	2503123-18	Soil	03/07/25 11:02	03/07/25 16:30
BG06@1.5-2.5'	2503123-19	Soil	03/07/25 10:10	03/07/25 16:30
BG06@3-4'	2503123-20	Soil	03/07/25 10:12	03/07/25 16:30

SUMMIT SCIENTIFIC

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

Lab ID 2503123 Page 1 of 2

Client: <u>NOBE</u>		Send Data To: Project Manager: <u>Mark Rince</u>		Send Invoice To: Company: <u>NOBE</u>	
Address: <u>6855 W 119th Ave</u>		E-Mail: <u>danpeterson@chevron.com; tas-chevron-3@tasman-geo.com; rbueu27@chevron.com</u>		Project Name/Location: <u>Lyster E26-23 FL</u>	
City/State/Zip: <u>Broomfield / CO / 80020</u>		Project Name: <u>Lyster E26-23 FL</u>		AFE#:	
Phone: <u>303-487-1228</u>		Project Number:		PO/Billing Codes:	
Sampler Name: <u>Billy Morrow</u>				Contact: <u>Dan Peterson</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested							Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN - 8260B	1,2,4 & 1,3,5-TMB	TDS, Cl, SO4	Full 915-1 Suite	pH, EC, SAR, boron	
1	BH01 @ 1.5-2.5'	3-7-25	1005	2			X			X					X		X	
2	BH01 @ 3-4'		1007															
3	BH02 @ 1.5-2.5'		1020															
4	BH02 @ 3-4'		1022															
5	BH03 @ 1.5-2.5'		1015															
6	BH03 @ 3-4'		1017															
7	BH04 @ 1.5-2.5'		0950															
8	BH04 @ 3-4'		0952															
9	BH05 @ 1.5-2.5'		0958															
10	BH05 @ 3-4'		1000															
11	BH02 @ 1.5-2.5'		1120	1			X			X						X	X	
12	BH02 @ 3-4'		1122															
13	BH03 @ 1.5-2.5'		1110															
14	BH03 @ 3-4'		1112															
15	BH04 @ 1.5-2.5'		1115															

Relinquished by: <u>Billy Morrow</u> Date/Time: <u>3-7-25 1410</u>	Received by: <u>S2 north</u> Date/Time: <u>3-7-25 1410</u>	TAT Business Days	Field DO	Notes:
		Same Day	Field EC	
Relinquished by: <u>S2</u> Date/Time: <u>3725 1030</u>	Received by: <u>[Signature]</u> Date/Time: <u>3725 1030</u>	1 Day	Field ORP	
		2 Days	Field pH	
Relinquished by: _____ Date/Time: _____	Received by: _____ Date/Time: _____	3 Days	Field Temp.	
		Standard	X Field Turb.	
Temperature Upon Receipt: <u>4.1</u>	Corrected Temperature: <u>6</u>	IR gun #: <u>1</u>	HNO3 lot #:	

SUMMIT SCIENTIFIC

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

Lab ID Page 2 of 2
2503123

Send Data To:		Send Invoice To:	
Client: <i>Noble</i>		Project Manager: <i>Matt Randa</i>	
Address: 6855 W 119th Ave		Company: <i>Noble</i>	
City/State/Zip: Broomfield / CO / 80020		Project Name/Location: <i>Lyster E26-23 FL</i>	
Phone: 303-487-1228		AFE#:	
Sampler Name: <i>Billy Morrow</i>		PO/Billing Codes:	
E-Mail: danpeterson@chevron.com; tas-chevron-3@tasman-geo.com; rboeu27@chevron.com		Contact: Dan Peterson	
Project Name: <i>Lyster E26-23 FL</i>		Project Number:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN - 8260B	1,2,4 & 1,3,5-TMB	TDS, Cl, SO4	Full 915-1 Suite		pH, EC, SAR, boron
1	BG04@ 3-4'	3-7-25	1117	1			X			X						X	X	
2	BG05@ 1.5-2.5'		1100															
3	BG05@ 3-4'		1102															
4	BG06@ 1.5-2.5'		1010															
5	BG06@ 3-4'		1012															
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by: <i>Billy Morrow</i>	Date/Time: 3-7-25 1410	Received by: <i>S2 north</i>	Date/Time: 3-7-25 1410	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <i>S2</i>	Date/Time: 3-7-25 1030	Received by: <i>[Signature]</i>	Date/Time: 3-7-25 1030	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: <i>4.1</i>	Corrected Temperature: <i>6</i>	IR gun #: <i>1</i>	HNO3 lot #:			

S₂

212

S2 Work Order# 2503123

Sample Receipt Checklist

Client: Noble Client Project ID: Lyster E26-23FL

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

Matrix (Circle all that apply) Air/Soil/Water/Other Temp (°C) 4.1 Thermometer # 1

Bottle ware (Circle all that apply) Glass Jar/Voa/Amber/Poly/Other

	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.	-			<u>on ice</u>
If custody seals are present, are they intact? ⁽¹⁾	-			
Are samples due within 48 hours?		-		
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, Total Residual Chlorine (TRC)		-		
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	-			
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	-			
Were all samples received intact? ⁽¹⁾	-			
Was adequate sample volume provided? ⁽¹⁾	-			
Were samples provided in appropriate bottle ware?	-			
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	-			
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	-			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			-	
Are any samples/bottles preserved (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.			-	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.			-	
If dissolved metals are requested, were samples field filtered?			-	
Are there requested analysis that cannot be performed by S2? Note analysis in the comments column		-		
Additional Comments (if any):				

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

Control Form #: SRC-001

SN
Custodian Printed Name

3/7/25
Date/Time



Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH01@1.5-2.5'
2503123-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/07/25 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIC1122	03/19/25	04/18/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/07/25 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0435	109 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0387	96.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/07/25 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIC1126	03/19/25	04/15/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/07/25 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.21	65.7 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH01@1.5-2.5'
2503123-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/07/25 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC1066	03/18/25	04/12/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/07/25 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0184	55.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0213	64.0 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/25 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC1198	03/20/25	03/26/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/25 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline

Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH01@1.5-2.5'
2503123-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	5.26	0.200	mg/kg dry	1	BIC1757	03/28/25	04/14/25	EPA 6020B
Barium	144	0.400	"	"	"	"	"	"
Cadmium	0.203	0.200	"	"	"	"	"	"
Copper	5.62	0.400	"	"	"	"	"	"
Lead	6.45	0.200	"	"	"	"	"	"
Nickel	8.97	0.400	"	"	"	"	"	"
Silver	0.0211	0.0200	"	"	"	"	"	"
Zinc	21.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/25 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0839	03/14/25	03/17/25	EPA 7196A	

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

Date Sampled: **03/07/25 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	32.8	0.0500	mg/L dry	1	BIC1878	03/31/25	04/11/25	EPA 6020B	
Magnesium	5.58	0.0500	"	"	"	"	"	"	
Sodium	14.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/07/25 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.620	0.00100	units	1	BID0702	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/25 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH01@1.5-2.5'
2503123-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	89.8	%	1	BIC0504	03/10/25	03/10/25	Calculation
----------	------	---	---	---------	----------	----------	-------------

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/25 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.234	0.0100	mmhos/cm	1	BIC1865	03/31/25	04/04/25	EPA 120.1	

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

Date Sampled: **03/07/25 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.64		pH Units	1	BIC1845	03/31/25	04/04/25	EPA 9045D	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline

Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH01@3-4'
2503123-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/07/25 10:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIC1122	03/19/25	04/18/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/07/25 10:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0433	108 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0391	97.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0401	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/07/25 10:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIC1126	03/19/25	04/15/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/07/25 10:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.99	71.9 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline

Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH01@3-4'
2503123-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/07/25 10:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC1066	03/18/25	04/12/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/07/25 10:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0179	53.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0197	59.0 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/25 10:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC1198	03/20/25	03/26/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/25 10:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH01@3-4'
2503123-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.14	0.200	mg/kg dry	1	BIC1757	03/28/25	04/14/25	EPA 6020B	
Barium	90.0	0.400	"	"	"	"	"	"	
Cadmium	0.280	0.200	"	"	"	"	"	"	
Copper	5.44	0.400	"	"	"	"	"	"	
Lead	6.78	0.200	"	"	"	"	"	"	
Nickel	8.19	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	20.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/25 10:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0839	03/14/25	03/17/25	EPA 7196A	

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

Date Sampled: **03/07/25 10:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	25.1	0.0500	mg/L dry	1	BIC1878	03/31/25	04/11/25	EPA 6020B	
Magnesium	5.63	0.0500	"	"	"	"	"	"	
Sodium	8.95	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/07/25 10:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.420	0.00100	units	1	BID0702	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH01@3-4'
2503123-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/25 10:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.9		%	1	BIC0504	03/10/25	03/10/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/25 10:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.210	0.0100	mmhos/cm	1	BIC1865	03/31/25	04/04/25	EPA 120.1	

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

Date Sampled: **03/07/25 10:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.66		pH Units	1	BIC1845	03/31/25	04/04/25	EPA 9045D	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH02@1.5-2.5'
2503123-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/07/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIC1122	03/19/25	04/18/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/07/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0419	105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0389	97.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0402	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/07/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIC1126	03/19/25	04/15/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/07/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.08	72.7 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH02@1.5-2.5'
2503123-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/07/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC1066	03/18/25	04/12/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/07/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0173	51.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0191	57.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC1198	03/20/25	03/26/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline

Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH02@1.5-2.5'
2503123-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	7.54	0.200	mg/kg dry	1	BIC1757	03/28/25	04/14/25	EPA 6020B
Barium	129	0.400	"	"	"	"	"	"
Cadmium	0.233	0.200	"	"	"	"	"	"
Copper	6.85	0.400	"	"	"	"	"	"
Lead	6.61	0.200	"	"	"	"	"	"
Nickel	9.26	0.400	"	"	"	"	"	"
Silver	0.0201	0.0200	"	"	"	"	"	"
Zinc	23.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0839	03/14/25	03/17/25	EPA 7196A	

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

Date Sampled: **03/07/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	21.7	0.0500	mg/L dry	1	BIC1878	03/31/25	04/11/25	EPA 6020B	
Magnesium	7.01	0.0500	"	"	"	"	"	"	
Sodium	18.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/07/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.883	0.00100	units	1	BID0702	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
 Project Number: UWRWE-A2952-ABN
 Project Manager: Mike Medina

Reported:
 04/23/25 10:47

BH02@1.5-2.5'
2503123-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	91.1	%	1	BIC0504	03/10/25	03/10/25	Calculation
----------	------	---	---	---------	----------	----------	-------------

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.264	0.0100	mmhos/cm	1	BIC1865	03/31/25	04/04/25	EPA 120.1	

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

Date Sampled: **03/07/25 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.67		pH Units	1	BIC1845	03/31/25	04/04/25	EPA 9045D	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH02@3-4'
2503123-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/07/25 10:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIC1122	03/19/25	04/18/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/07/25 10:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0449	112 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0389	97.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0407	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/07/25 10:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIC1126	03/19/25	04/15/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/07/25 10:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.32	74.5 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH02@3-4'
2503123-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/07/25 10:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC1066	03/18/25	04/12/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/07/25 10:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0139	41.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0156	46.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/25 10:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC1198	03/20/25	03/26/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/25 10:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH02@3-4'
2503123-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	5.45	0.200	mg/kg dry	1	BIC1757	03/28/25	04/14/25	EPA 6020B	
Barium	307	0.400	"	"	"	"	"	"	
Cadmium	0.256	0.200	"	"	"	"	"	"	
Copper	5.18	0.400	"	"	"	"	"	"	
Lead	5.91	0.200	"	"	"	"	"	"	
Nickel	9.06	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	20.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/25 10:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0839	03/14/25	03/17/25	EPA 7196A	

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

Date Sampled: **03/07/25 10:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	32.4	0.0500	mg/L dry	1	BIC1878	03/31/25	04/11/25	EPA 6020B	
Magnesium	9.13	0.0500	"	"	"	"	"	"	
Sodium	23.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/07/25 10:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.927	0.00100	units	1	BID0702	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH02@3-4'
2503123-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/25 10:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.5		%	1	BIC0504	03/10/25	03/10/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/25 10:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.377	0.0100	mmhos/cm	1	BIC1865	03/31/25	04/04/25	EPA 120.1	

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

Date Sampled: **03/07/25 10:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.44		pH Units	1	BIC1845	03/31/25	04/04/25	EPA 9045D	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH03@1.5-2.5'
2503123-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/07/25 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIC1122	03/19/25	04/18/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/07/25 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0444	111 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0391	97.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0403	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/07/25 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIC1126	03/19/25	04/15/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/07/25 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.38	67.0 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH03@1.5-2.5'
2503123-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/07/25 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC1066	03/18/25	04/12/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/07/25 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0152	45.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0164	49.3 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/25 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC1198	03/20/25	03/26/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/25 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH03@1.5-2.5'
2503123-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	6.60	0.200	mg/kg dry	1	BIC1757	03/28/25	04/14/25	EPA 6020B	
Barium	393	0.400	"	"	"	"	"	"	
Cadmium	0.321	0.200	"	"	"	"	"	"	
Copper	5.26	0.400	"	"	"	"	"	"	
Lead	6.26	0.200	"	"	"	"	"	"	
Nickel	8.17	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	20.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/25 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0839	03/14/25	03/17/25	EPA 7196A	

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

Date Sampled: **03/07/25 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	93.3	0.0500	mg/L dry	1	BIC1878	03/31/25	04/11/25	EPA 6020B	
Magnesium	38.7	0.0500	"	"	"	"	"	"	
Sodium	128	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/07/25 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.81	0.00100	units	1	BID0702	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH03@1.5-2.5'
2503123-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/25 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.6		%	1	BIC0504	03/10/25	03/10/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/25 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.46	0.0100	mmhos/cm	1	BIC1865	03/31/25	04/04/25	EPA 120.1	

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

Date Sampled: **03/07/25 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.38		pH Units	1	BIC1845	03/31/25	04/04/25	EPA 9045D	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH03@3-4'
2503123-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/07/25 10:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIC1122	03/19/25	04/18/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/07/25 10:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0421	105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0386	96.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0398	99.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/07/25 10:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIC1126	03/19/25	04/15/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/07/25 10:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.60	68.8 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH03@3-4'
2503123-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/07/25 10:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC1066	03/18/25	04/12/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/07/25 10:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0196	58.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0204	61.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/25 10:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC1198	03/20/25	03/26/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/25 10:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH03@3-4'
2503123-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.20	0.200	mg/kg dry	1	BIC1757	03/28/25	04/14/25	EPA 6020B	
Barium	126	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.96	0.400	"	"	"	"	"	"	
Lead	4.59	0.200	"	"	"	"	"	"	
Nickel	5.98	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	16.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/25 10:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0839	03/14/25	03/17/25	EPA 7196A	

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

Date Sampled: **03/07/25 10:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	46.6	0.0500	mg/L dry	1	BIC1878	03/31/25	04/11/25	EPA 6020B	
Magnesium	19.1	0.0500	"	"	"	"	"	"	
Sodium	36.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/07/25 10:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.13	0.00100	units	1	BID0702	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH03@3-4'
2503123-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/25 10:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.2		%	1	BIC0504	03/10/25	03/10/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/25 10:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.741	0.0100	mmhos/cm	1	BIC1865	03/31/25	04/04/25	EPA 120.1	

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

Date Sampled: **03/07/25 10:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.56		pH Units	1	BIC1845	03/31/25	04/04/25	EPA 9045D	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH04@1.5-2.5'
2503123-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/07/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIC1122	03/19/25	04/18/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/07/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0433	108 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0387	96.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0401	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/07/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIC1126	03/19/25	04/15/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/07/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.7	85.8 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH04@1.5-2.5'
2503123-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/07/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC1066	03/18/25	04/12/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/07/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0177	53.0 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0187	56.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC1198	03/20/25	03/26/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH04@1.5-2.5'
2503123-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	7.99	0.200	mg/kg dry	1	BIC1757	03/28/25	04/14/25	EPA 6020B	
Barium	96.2	0.400	"	"	"	"	"	"	
Cadmium	0.213	0.200	"	"	"	"	"	"	
Copper	5.63	0.400	"	"	"	"	"	"	
Lead	8.02	0.200	"	"	"	"	"	"	
Nickel	8.19	0.400	"	"	"	"	"	"	
Silver	0.0201	0.0200	"	"	"	"	"	"	
Zinc	19.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0839	03/14/25	03/17/25	EPA 7196A	

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

Date Sampled: **03/07/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	86.7	0.0500	mg/L dry	1	BIC1878	03/31/25	04/11/25	EPA 6020B	
Magnesium	37.2	0.0500	"	"	"	"	"	"	
Sodium	57.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/07/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.30	0.00100	units	1	BID0702	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
 Project Number: UWRWE-A2952-ABN
 Project Manager: Mike Medina

Reported:
 04/23/25 10:47

BH04@1.5-2.5'
2503123-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	92.1	%	1	BIC0504	03/10/25	03/10/25	Calculation
----------	------	---	---	---------	----------	----------	-------------

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.25	0.0100	mmhos/cm	1	BIC1865	03/31/25	04/04/25	EPA 120.1	

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

Date Sampled: **03/07/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.24		pH Units	1	BIC1845	03/31/25	04/04/25	EPA 9045D	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline

Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH04@3-4'
2503123-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/07/25 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIC1122	03/19/25	04/18/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/07/25 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0422	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0386	96.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/07/25 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIC1126	03/19/25	04/15/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/07/25 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.48	75.8 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH04@3-4'
2503123-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/07/25 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC1066	03/18/25	04/12/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/07/25 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0172	51.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0172	51.7 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/25 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC1198	03/20/25	03/26/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/25 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH04@3-4'
2503123-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	5.54	0.200	mg/kg dry	1	BIC1757	03/28/25	04/14/25	EPA 6020B	
Barium	479	0.400	"	"	"	"	"	"	
Cadmium	0.205	0.200	"	"	"	"	"	"	
Copper	5.33	0.400	"	"	"	"	"	"	
Lead	6.44	0.200	"	"	"	"	"	"	
Nickel	8.24	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	23.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/25 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0839	03/14/25	03/17/25	EPA 7196A	

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

Date Sampled: **03/07/25 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	64.3	0.0500	mg/L dry	1	BIC1878	03/31/25	04/11/25	EPA 6020B	
Magnesium	31.2	0.0500	"	"	"	"	"	"	
Sodium	49.1	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/07/25 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.26	0.00100	units	1	BID0702	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH04@3-4'
2503123-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/25 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.0		%	1	BIC0504	03/10/25	03/10/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/25 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.945	0.0100	mmhos/cm	1	BIC1865	03/31/25	04/04/25	EPA 120.1	

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

Date Sampled: **03/07/25 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.26		pH Units	1	BIC1845	03/31/25	04/04/25	EPA 9045D	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH05@1.5-2.5'
2503123-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/07/25 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIC1122	03/19/25	04/18/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/07/25 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0445	111 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0388	97.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0409	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/07/25 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIC1126	03/19/25	04/15/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/07/25 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.07	64.5 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH05@1.5-2.5'
2503123-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/07/25 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC1066	03/18/25	04/12/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/07/25 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0179	53.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0187	56.2 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/25 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC1198	03/20/25	03/26/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/25 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH05@1.5-2.5'
2503123-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	6.96	0.200	mg/kg dry	1	BIC1757	03/28/25	04/14/25	EPA 6020B	
Barium	375	0.400	"	"	"	"	"	"	
Cadmium	0.211	0.200	"	"	"	"	"	"	
Copper	5.09	0.400	"	"	"	"	"	"	
Lead	7.22	0.200	"	"	"	"	"	"	
Nickel	7.64	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	19.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/25 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0839	03/14/25	03/17/25	EPA 7196A	

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

Date Sampled: **03/07/25 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	64.6	0.0500	mg/L dry	1	BIC1878	03/31/25	04/11/25	EPA 6020B	
Magnesium	29.5	0.0500	"	"	"	"	"	"	
Sodium	50.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/07/25 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.31	0.00100	units	1	BID0702	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH05@1.5-2.5'
2503123-09 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/25 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.1		%	1	BIC0504	03/10/25	03/10/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/25 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.970	0.0100	mmhos/cm	1	BIC1865	03/31/25	04/04/25	EPA 120.1	

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

Date Sampled: **03/07/25 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21		pH Units	1	BIC1845	03/31/25	04/04/25	EPA 9045D	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH05@3-4'
2503123-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/07/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIC1122	03/19/25	04/18/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/07/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0421	105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0387	96.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/07/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIC1126	03/19/25	04/15/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/07/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.50	68.0 %	50-140		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH05@3-4'
2503123-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/07/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIC1066	03/18/25	04/12/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/07/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0190	57.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0194	58.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC1198	03/20/25	03/26/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH05@3-4'
2503123-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	5.13	0.200	mg/kg dry	1	BIC1757	03/28/25	04/14/25	EPA 6020B	
Barium	89.1	0.400	"	"	"	"	"	"	
Cadmium	0.252	0.200	"	"	"	"	"	"	
Copper	5.72	0.400	"	"	"	"	"	"	
Lead	7.30	0.200	"	"	"	"	"	"	
Nickel	8.93	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	24.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0839	03/14/25	03/17/25	EPA 7196A	

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

Date Sampled: **03/07/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	24.8	0.0500	mg/L dry	1	BIC1878	03/31/25	04/11/25	EPA 6020B	
Magnesium	11.3	0.0500	"	"	"	"	"	"	
Sodium	19.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/07/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.802	0.00100	units	1	BID0702	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BH05@3-4'
2503123-10 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.1		%	1	BIC0504	03/10/25	03/10/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.994	0.0100	mmhos/cm	1	BIC1865	03/31/25	04/04/25	EPA 120.1	

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

Date Sampled: **03/07/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.51		pH Units	1	BIC1845	03/31/25	04/04/25	EPA 9045D	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BG02@1.5-2.5'
2503123-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/25 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC1198	03/20/25	03/26/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/25 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	7.15	0.200	mg/kg dry	1	BIC1757	03/28/25	04/14/25	EPA 6020B	
Barium	133	0.400	"	"	"	"	"	"	
Cadmium	0.259	0.200	"	"	"	"	"	"	
Copper	6.96	0.400	"	"	"	"	"	"	
Lead	6.28	0.200	"	"	"	"	"	"	
Nickel	10.2	0.400	"	"	"	"	"	"	
Silver	0.0373	0.0200	"	"	"	"	"	"	
Zinc	24.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/25 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0839	03/14/25	03/17/25	EPA 7196A	

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

Date Sampled: **03/07/25 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	43.3	0.0500	mg/L dry	1	BIC1878	03/31/25	04/11/25	EPA 6020B	
Magnesium	16.4	0.0500	"	"	"	"	"	"	
Sodium	60.8	0.0500	"	"	"	"	"	"	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BG02@1.5-2.5'
2503123-11 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/07/25 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.00	0.00100	units	1	BID0702	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/25 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.0		%	1	BIC0504	03/10/25	03/10/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/25 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.341	0.0100	mmhos/cm	1	BIC1865	03/31/25	04/04/25	EPA 120.1	

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

Date Sampled: **03/07/25 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.39		pH Units	1	BIC1845	03/31/25	04/04/25	EPA 9045D	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline

Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BG02@3-4'
2503123-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/25 11:22**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC1198	03/20/25	03/26/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/25 11:22**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.98	0.200	mg/kg dry	1	BIC1757	03/28/25	04/14/25	EPA 6020B	
Barium	91.3	0.400	"	"	"	"	"	"	
Cadmium	0.285	0.200	"	"	"	"	"	"	
Copper	4.88	0.400	"	"	"	"	"	"	
Lead	5.84	0.200	"	"	"	"	"	"	
Nickel	7.53	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	20.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/25 11:22**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0839	03/14/25	03/17/25	EPA 7196A	

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

Date Sampled: **03/07/25 11:22**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	46.0	0.0500	mg/L dry	1	BIC1878	03/31/25	04/11/25	EPA 6020B	
Magnesium	20.9	0.0500	"	"	"	"	"	"	
Sodium	22.7	0.0500	"	"	"	"	"	"	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BG02@3-4'
2503123-12 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/07/25 11:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.697	0.00100	units	1	BID0702	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/25 11:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.7		%	1	BIC0504	03/10/25	03/10/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/25 11:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.686	0.0100	mmhos/cm	1	BIC1865	03/31/25	04/04/25	EPA 120.1	

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

Date Sampled: **03/07/25 11:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.31		pH Units	1	BIC1845	03/31/25	04/04/25	EPA 9045D	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BG03@1.5-2.5'
2503123-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/25 11:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC1198	03/20/25	03/26/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/25 11:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.88	0.200	mg/kg dry	1	BIC1757	03/28/25	04/14/25	EPA 6020B	
Barium	101	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	5.67	0.400	"	"	"	"	"	"	
Lead	5.95	0.200	"	"	"	"	"	"	
Nickel	7.84	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	21.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/25 11:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0839	03/14/25	03/17/25	EPA 7196A	

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

Date Sampled: **03/07/25 11:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	36.9	0.0500	mg/L dry	1	BIC1878	03/31/25	04/11/25	EPA 6020B	
Magnesium	16.1	0.0500	"	"	"	"	"	"	
Sodium	38.4	0.0500	"	"	"	"	"	"	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BG03@1.5-2.5'
2503123-13 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/07/25 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.33	0.00100	units	1	BID0702	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/25 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.4		%	1	BIC0504	03/10/25	03/10/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/25 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.613	0.0100	mmhos/cm	1	BIC1865	03/31/25	04/04/25	EPA 120.1	

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

Date Sampled: **03/07/25 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.40		pH Units	1	BIC1845	03/31/25	04/04/25	EPA 9045D	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BG03@3-4'
2503123-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/25 11:12**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIC1198	03/20/25	03/26/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/25 11:12**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	6.90	0.200		mg/kg dry	1	BIC1757	03/28/25	04/14/25	EPA 6020B	
Barium	126	0.400		"	"	"	"	"	"	
Cadmium	0.264	0.200		"	"	"	"	"	"	
Copper	6.93	0.400		"	"	"	"	"	"	
Lead	6.34	0.200		"	"	"	"	"	"	
Nickel	10.5	0.400		"	"	"	"	"	"	
Silver	0.0297	0.0200		"	"	"	"	"	"	
Zinc	26.6	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/25 11:12**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIC0839	03/14/25	03/17/25	EPA 7196A	

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

Date Sampled: **03/07/25 11:12**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	57.7	0.0500		mg/L dry	1	BIC1878	03/31/25	04/11/25	EPA 6020B	
Magnesium	10.3	0.0500		"	"	"	"	"	"	
Sodium	51.1	0.0500		"	"	"	"	"	"	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BG03@3-4'
2503123-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/07/25 11:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.63	0.00100	units	1	BID0702	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/25 11:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.0		%	1	BIC0504	03/10/25	03/10/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/25 11:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.573	0.0100	mmhos/cm	1	BIC1865	03/31/25	04/04/25	EPA 120.1	

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

Date Sampled: **03/07/25 11:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.55		pH Units	1	BIC1845	03/31/25	04/04/25	EPA 9045D	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BG04@1.5-2.5'
2503123-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/25 11:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC1198	03/20/25	03/26/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/25 11:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.30	0.200	mg/kg dry	1	BIC1757	03/28/25	04/14/25	EPA 6020B	
Barium	69.2	0.400	"	"	"	"	"	"	
Cadmium	0.239	0.200	"	"	"	"	"	"	
Copper	7.36	0.400	"	"	"	"	"	"	
Lead	7.55	0.200	"	"	"	"	"	"	
Nickel	7.54	0.400	"	"	"	"	"	"	
Silver	0.0341	0.0200	"	"	"	"	"	"	
Zinc	28.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/25 11:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0839	03/14/25	03/17/25	EPA 7196A	

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

Date Sampled: **03/07/25 11:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	26.2	0.0500	mg/L dry	1	BIC1878	03/31/25	04/11/25	EPA 6020B	
Magnesium	8.49	0.0500	"	"	"	"	"	"	
Sodium	8.71	0.0500	"	"	"	"	"	"	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BG04@1.5-2.5'
2503123-15 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/07/25 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.378	0.00100	units	1	BID0702	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/25 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.0		%	1	BIC0504	03/10/25	03/10/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/25 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.496	0.0100	mmhos/cm	1	BIC1865	03/31/25	04/04/25	EPA 120.1	

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

Date Sampled: **03/07/25 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.34		pH Units	1	BIC1845	03/31/25	04/04/25	EPA 9045D	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline

Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BG04@3-4'
2503123-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/25 11:17**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC1198	03/20/25	03/26/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/25 11:17**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.88	0.200	mg/kg dry	1	BIC1757	03/28/25	04/14/25	EPA 6020B	
Barium	129	0.400	"	"	"	"	"	"	
Cadmium	0.292	0.200	"	"	"	"	"	"	
Copper	7.44	0.400	"	"	"	"	"	"	
Lead	7.62	0.200	"	"	"	"	"	"	
Nickel	11.6	0.400	"	"	"	"	"	"	
Silver	0.0329	0.0200	"	"	"	"	"	"	
Zinc	33.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/25 11:17**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0839	03/14/25	03/17/25	EPA 7196A	

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

Date Sampled: **03/07/25 11:17**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	33.2	0.0500	mg/L dry	1	BIC1878	03/31/25	04/11/25	EPA 6020B	
Magnesium	9.23	0.0500	"	"	"	"	"	"	
Sodium	14.5	0.0500	"	"	"	"	"	"	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BG04@3-4'
2503123-16 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/07/25 11:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.574	0.00100	units	1	BID0702	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/25 11:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.4		%	1	BIC0504	03/10/25	03/10/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/25 11:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.221	0.0100	mmhos/cm	1	BIC1865	03/31/25	04/04/25	EPA 120.1	

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

Date Sampled: **03/07/25 11:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.39		pH Units	1	BIC1845	03/31/25	04/04/25	EPA 9045D	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BG05@1.5-2.5'
2503123-17 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/25 11:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC1199	03/20/25	03/26/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/25 11:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.19	0.200	mg/kg dry	1	BIC1757	03/28/25	04/15/25	EPA 6020B	
Barium	61.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.70	0.400	"	"	"	"	"	"	
Lead	5.50	0.200	"	"	"	"	"	"	
Nickel	6.32	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	18.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/25 11:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0839	03/14/25	03/17/25	EPA 7196A	

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

Date Sampled: **03/07/25 11:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	19.5	0.0500	mg/L dry	1	BIC1878	03/31/25	04/11/25	EPA 6020B	
Magnesium	6.43	0.0500	"	"	"	"	"	"	
Sodium	27.0	0.0500	"	"	"	"	"	"	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BG05@1.5-2.5'
2503123-17 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/07/25 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.36	0.00100	units	1	BID0702	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/25 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.4		%	1	BIC0504	03/10/25	03/10/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/25 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.313	0.0100	mmhos/cm	1	BIC1865	03/31/25	04/04/25	EPA 120.1	

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

Date Sampled: **03/07/25 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.57		pH Units	1	BIC1845	03/31/25	04/04/25	EPA 9045D	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BG05@3-4'
2503123-18 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/25 11:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC1199	03/20/25	03/26/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/25 11:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.90	0.200	mg/kg dry	1	BIC1757	03/28/25	04/15/25	EPA 6020B	
Barium	52.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.21	0.400	"	"	"	"	"	"	
Lead	3.69	0.200	"	"	"	"	"	"	
Nickel	4.99	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	13.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/25 11:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0839	03/14/25	03/17/25	EPA 7196A	

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

Date Sampled: **03/07/25 11:02**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	71.0	0.0500	mg/L dry	1	BIC1878	03/31/25	04/11/25	EPA 6020B	
Magnesium	6.03	0.0500	"	"	"	"	"	"	
Sodium	12.3	0.0500	"	"	"	"	"	"	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BG05@3-4'
2503123-18 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/07/25 11:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.376	0.00100	units	1	BID0702	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/25 11:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.8		%	1	BIC0504	03/10/25	03/10/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/25 11:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.197	0.0100	mmhos/cm	1	BIC1865	03/31/25	04/04/25	EPA 120.1	

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

Date Sampled: **03/07/25 11:02**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.80		pH Units	1	BIC1845	03/31/25	04/04/25	EPA 9045D	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline

Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BG06@1.5-2.5'
2503123-19 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/25 10:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC1199	03/20/25	03/26/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/25 10:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	6.98	0.200	mg/kg dry	1	BIC1757	03/28/25	04/15/25	EPA 6020B	
Barium	198	0.400	"	"	"	"	"	"	
Cadmium	0.316	0.200	"	"	"	"	"	"	
Copper	6.81	0.400	"	"	"	"	"	"	
Lead	7.10	0.200	"	"	"	"	"	"	
Nickel	9.87	0.400	"	"	"	"	"	"	
Silver	0.0264	0.0200	"	"	"	"	"	"	
Zinc	22.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/25 10:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0839	03/14/25	03/17/25	EPA 7196A	

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

Date Sampled: **03/07/25 10:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	68.7	0.0500	mg/L dry	1	BIC1878	03/31/25	04/11/25	EPA 6020B	
Magnesium	30.1	0.0500	"	"	"	"	"	"	
Sodium	85.1	0.0500	"	"	"	"	"	"	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BG06@1.5-2.5'
2503123-19 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/07/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.15	0.00100	units	1	BID0702	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	69.9		%	1	BIC0504	03/10/25	03/10/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.884	0.0100	mmhos/cm	1	BIC1865	03/31/25	04/04/25	EPA 120.1	

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

Date Sampled: **03/07/25 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.32		pH Units	1	BIC1845	03/31/25	04/04/25	EPA 9045D	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BG06@3-4'
2503123-20 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/07/25 10:12**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC1199	03/20/25	03/26/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/07/25 10:12**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	7.88	0.200	mg/kg dry	1	BIC1757	03/28/25	04/15/25	EPA 6020B	
Barium	228	0.400	"	"	"	"	"	"	
Cadmium	0.343	0.200	"	"	"	"	"	"	
Copper	7.28	0.400	"	"	"	"	"	"	
Lead	7.35	0.200	"	"	"	"	"	"	
Nickel	9.81	0.400	"	"	"	"	"	"	
Silver	0.0265	0.0200	"	"	"	"	"	"	
Zinc	22.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/07/25 10:12**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIC0839	03/14/25	03/17/25	EPA 7196A	

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

Date Sampled: **03/07/25 10:12**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	87.8	0.0500	mg/L dry	1	BIC1878	03/31/25	04/11/25	EPA 6020B	
Magnesium	41.3	0.0500	"	"	"	"	"	"	
Sodium	112	0.0500	"	"	"	"	"	"	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

BG06@3-4'
2503123-20 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/07/25 10:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.47	0.00100	units	1	BID0702	04/12/25	04/12/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/07/25 10:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	69.3		%	1	BIC0504	03/10/25	03/10/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/07/25 10:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.12	0.0100	mmhos/cm	1	BIC1865	03/31/25	04/04/25	EPA 120.1	

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

Date Sampled: **03/07/25 10:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.27		pH Units	1	BIC1845	03/31/25	04/04/25	EPA 9045D	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BIC1122 - EPA 5030 Soil MS

Blank (BIC1122-BLK1)

Prepared: 03/19/25 Analyzed: 04/18/25

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
Naphthalene	ND	0.0038	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
Surrogate: 1,2-Dichloroethane-d4	0.0411		"	0.0400		103	50-150				
Surrogate: Toluene-d8	0.0386		"	0.0400		96.4	50-150				
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		98.0	50-150				

LCS (BIC1122-BS1)

Prepared: 03/19/25 Analyzed: 04/18/25

Benzene	0.0884	0.0020	mg/kg	0.100		88.4	70-130				
Toluene	0.0918	0.0050	"	0.100		91.8	70-130				
Ethylbenzene	0.0865	0.0050	"	0.100		86.5	70-130				
m,p-Xylene	0.177	0.010	"	0.200		88.7	70-130				
o-Xylene	0.0911	0.0050	"	0.100		91.1	70-130				
1,2,4-Trimethylbenzene	0.0897	0.0050	"	0.100		89.7	70-130				
1,3,5-Trimethylbenzene	0.0881	0.0050	"	0.100		88.1	70-130				
Naphthalene	0.0876	0.0038	"	0.100		87.6	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0406		"	0.0400		101	50-150				
Surrogate: Toluene-d8	0.0389		"	0.0400		97.3	50-150				
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.6	50-150				

Matrix Spike (BIC1122-MS1)

Source: 2503123-01

Prepared: 03/19/25 Analyzed: 04/18/25

Benzene	0.0835	0.0020	mg/kg	0.100	ND	83.5	70-130				
Toluene	0.0868	0.0050	"	0.100	ND	86.8	70-130				
Ethylbenzene	0.0810	0.0050	"	0.100	ND	81.0	70-130				
m,p-Xylene	0.166	0.010	"	0.200	ND	83.0	70-130				
o-Xylene	0.0861	0.0050	"	0.100	ND	86.1	70-130				
1,2,4-Trimethylbenzene	0.0828	0.0050	"	0.100	ND	82.8	70-130				
1,3,5-Trimethylbenzene	0.0817	0.0050	"	0.100	ND	81.7	70-130				
Naphthalene	0.0815	0.0038	"	0.100	ND	81.5	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0413		"	0.0400		103	50-150				
Surrogate: Toluene-d8	0.0392		"	0.0400		98.1	50-150				
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		99.9	50-150				

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BIC1122 - EPA 5030 Soil MS

Matrix Spike Dup (BIC1122-MSD1)	Source: 2503123-01			Prepared: 03/19/25 Analyzed: 04/18/25						
Benzene	0.0833	0.0020	mg/kg	0.100	ND	83.3	70-130	0.180	30	
Toluene	0.0861	0.0050	"	0.100	ND	86.1	70-130	0.902	30	
Ethylbenzene	0.0797	0.0050	"	0.100	ND	79.7	70-130	1.64	30	
m,p-Xylene	0.162	0.010	"	0.200	ND	81.2	70-130	2.21	30	
o-Xylene	0.0847	0.0050	"	0.100	ND	84.7	70-130	1.69	30	
1,2,4-Trimethylbenzene	0.0811	0.0050	"	0.100	ND	81.1	70-130	2.12	30	
1,3,5-Trimethylbenzene	0.0800	0.0050	"	0.100	ND	80.0	70-130	2.08	30	
Naphthalene	0.0777	0.0038	"	0.100	ND	77.7	70-130	4.78	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0413</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0389</i>		<i>"</i>	<i>0.0400</i>		<i>97.2</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0396</i>		<i>"</i>	<i>0.0400</i>		<i>99.1</i>	<i>50-150</i>			

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BIC1126 - EPA 3550A

Blank (BIC1126-BLK1)

Prepared: 03/19/25 Analyzed: 04/15/25

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	9.76		"	12.5		78.1	50-140				

LCS (BIC1126-BS1)

Prepared: 03/19/25 Analyzed: 04/15/25

C10-C28 (DRO)	425	50	mg/kg	500		85.0	50-140				
Surrogate: <i>o</i> -Terphenyl	9.45		"	12.5		75.6	50-140				

Matrix Spike (BIC1126-MS1)

Source: 2503123-01

Prepared: 03/19/25 Analyzed: 04/15/25

C10-C28 (DRO)	441	50	mg/kg	500	24.3	83.3	50-140				
Surrogate: <i>o</i> -Terphenyl	9.68		"	12.5		77.5	50-140				

Matrix Spike Dup (BIC1126-MSD1)

Source: 2503123-01

Prepared: 03/19/25 Analyzed: 04/15/25

C10-C28 (DRO)	417	50	mg/kg	500	24.3	78.5	50-140	5.58	20		
Surrogate: <i>o</i> -Terphenyl	8.94		"	12.5		71.5	50-140				

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BIC1066 - EPA 5030 Soil MS

Blank (BIC1066-BLK1)

Prepared: 03/18/25 Analyzed: 04/12/25

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0235		"	0.0333		70.5	40-140			
Surrogate: Fluoranthene-d10	0.0248		"	0.0333		74.3	40-140			

LCS (BIC1066-BS1)

Prepared: 03/18/25 Analyzed: 04/12/25

Acenaphthene	0.0252	0.00500	mg/kg	0.0333		75.7	40-140			
Anthracene	0.0270	0.00500	"	0.0333		81.1	40-140			
Benzo (a) anthracene	0.0278	0.00500	"	0.0333		83.3	40-140			
Benzo (a) pyrene	0.0272	0.00500	"	0.0333		81.7	40-140			
Benzo (b) fluoranthene	0.0309	0.00500	"	0.0333		92.8	40-140			
Benzo (k) fluoranthene	0.0293	0.00500	"	0.0333		87.9	40-140			
Chrysene	0.0267	0.00500	"	0.0333		80.1	40-140			
Dibenz (a,h) anthracene	0.0167	0.00500	"	0.0333		50.0	40-140			
Fluoranthene	0.0278	0.00500	"	0.0333		83.5	40-140			
Fluorene	0.0266	0.00500	"	0.0333		79.8	40-140			
Indeno (1,2,3-cd) pyrene	0.0167	0.00500	"	0.0333		50.2	40-140			
Pyrene	0.0279	0.00500	"	0.0333		83.8	40-140			
1-Methylnaphthalene	0.0248	0.00500	"	0.0333		74.4	40-140			
2-Methylnaphthalene	0.0255	0.00500	"	0.0333		76.6	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0200		"	0.0333		60.1	40-140			
Surrogate: Fluoranthene-d10	0.0225		"	0.0333		67.5	40-140			

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BIC1066 - EPA 5030 Soil MS

Matrix Spike (BIC1066-MS1)	Source: 2503122-01			Prepared: 03/18/25 Analyzed: 04/12/25						
Acenaphthene	0.0247	0.00500	mg/kg	0.0333	ND	74.0	40-140			
Anthracene	0.0289	0.00500	"	0.0333	ND	86.7	40-140			
Benzo (a) anthracene	0.0304	0.00500	"	0.0333	ND	91.3	40-140			
Benzo (a) pyrene	0.0298	0.00500	"	0.0333	ND	89.4	40-140			
Benzo (b) fluoranthene	0.0341	0.00500	"	0.0333	ND	102	40-140			
Benzo (k) fluoranthene	0.0324	0.00500	"	0.0333	ND	97.1	40-140			
Chrysene	0.0290	0.00500	"	0.0333	ND	87.1	40-140			
Dibenz (a,h) anthracene	0.0187	0.00500	"	0.0333	ND	56.1	40-140			
Fluoranthene	0.0308	0.00500	"	0.0333	ND	92.5	40-140			
Fluorene	0.0269	0.00500	"	0.0333	ND	80.8	40-140			
Indeno (1,2,3-cd) pyrene	0.0186	0.00500	"	0.0333	ND	55.7	40-140			
Pyrene	0.0306	0.00500	"	0.0333	ND	91.8	40-140			
1-Methylnaphthalene	0.0257	0.00500	"	0.0333	ND	77.1	40-140			
2-Methylnaphthalene	0.0264	0.00500	"	0.0333	ND	79.3	40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0210</i>		<i>"</i>	<i>0.0333</i>		<i>62.9</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0250</i>		<i>"</i>	<i>0.0333</i>		<i>75.0</i>	<i>40-140</i>			

Matrix Spike Dup (BIC1066-MSD1)	Source: 2503122-01			Prepared: 03/18/25 Analyzed: 04/12/25						
Acenaphthene	0.0276	0.00500	mg/kg	0.0333	ND	82.9	40-140	11.2	30	
Anthracene	0.0309	0.00500	"	0.0333	ND	92.8	40-140	6.81	30	
Benzo (a) anthracene	0.0312	0.00500	"	0.0333	ND	93.7	40-140	2.61	30	
Benzo (a) pyrene	0.0305	0.00500	"	0.0333	ND	91.5	40-140	2.32	30	
Benzo (b) fluoranthene	0.0336	0.00500	"	0.0333	ND	101	40-140	1.48	30	
Benzo (k) fluoranthene	0.0317	0.00500	"	0.0333	ND	95.2	40-140	1.91	30	
Chrysene	0.0303	0.00500	"	0.0333	ND	90.8	40-140	4.11	30	
Dibenz (a,h) anthracene	0.0205	0.00500	"	0.0333	ND	61.5	40-140	9.15	30	
Fluoranthene	0.0298	0.00500	"	0.0333	ND	89.5	40-140	3.29	30	
Fluorene	0.0299	0.00500	"	0.0333	ND	89.7	40-140	10.5	30	
Indeno (1,2,3-cd) pyrene	0.0206	0.00500	"	0.0333	ND	61.8	40-140	10.5	30	
Pyrene	0.0311	0.00500	"	0.0333	ND	93.2	40-140	1.53	30	
1-Methylnaphthalene	0.0274	0.00500	"	0.0333	ND	82.3	40-140	6.46	30	
2-Methylnaphthalene	0.0286	0.00500	"	0.0333	ND	85.9	40-140	7.92	30	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0222</i>		<i>"</i>	<i>0.0333</i>		<i>66.6</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0242</i>		<i>"</i>	<i>0.0333</i>		<i>72.7</i>	<i>40-140</i>			

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

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

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

Batch BIC1198 - EPA 3050B

Blank (BIC1198-BLK1)				Prepared: 03/20/25 Analyzed: 03/26/25							
Boron	ND	2.00	mg/L								
LCS (BIC1198-BS1)				Prepared: 03/20/25 Analyzed: 03/26/25							
Boron	5.16	2.00	mg/L	5.00	103	80-120					
Duplicate (BIC1198-DUP1)				Source: 2503116-07 Prepared: 03/20/25 Analyzed: 03/26/25							
Boron	0.502	2.00	mg/L	0.588	15.9	20					
Matrix Spike (BIC1198-MS1)				Source: 2503116-07 Prepared: 03/20/25 Analyzed: 03/26/25							
Boron	6.45	2.00	mg/L	5.00	0.588	117	75-125				
Matrix Spike Dup (BIC1198-MSD1)				Source: 2503116-07 Prepared: 03/20/25 Analyzed: 03/26/25							
Boron	6.55	2.00	mg/L	5.00	0.588	119	75-125	1.56	25		

Batch BIC1199 - EPA 3050B

Blank (BIC1199-BLK1)				Prepared: 03/20/25 Analyzed: 03/26/25							
Boron	ND	2.00	mg/L								
LCS (BIC1199-BS1)				Prepared: 03/20/25 Analyzed: 03/26/25							
Boron	5.49	2.00	mg/L	5.00	110	80-120					
Duplicate (BIC1199-DUP1)				Source: 2503123-17 Prepared: 03/20/25 Analyzed: 03/26/25							
Boron	0.0824	2.00	mg/L	0.0912	10.2	20					
Matrix Spike (BIC1199-MS1)				Source: 2503123-17 Prepared: 03/20/25 Analyzed: 03/26/25							
Boron	5.25	2.00	mg/L	5.01	0.0912	103	75-125				

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
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline

Project Number: UWRWE-A2952-ABN
 Project Manager: Mike Medina

Reported:
 04/23/25 10:47

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

Summit Scientific

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

Batch BIC1199 - EPA 3050B

Matrix Spike Dup (BIC1199-MSD1)

Source: 2503123-17

Prepared: 03/20/25 Analyzed: 03/26/25

Boron	5.62	2.00	mg/L	5.01	0.0912	110	75-125	6.69	25	
-------	------	------	------	------	--------	-----	--------	------	----	--

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BIC1757 - EPA 3050B

Blank (BIC1757-BLK1)

Prepared: 03/28/25 Analyzed: 04/16/25

Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

LCS (BIC1757-BS1)

Prepared: 03/28/25 Analyzed: 04/14/25

Arsenic	44.0	0.200	mg/kg wet	41.3	106	80-120
Barium	44.5	0.400	"	41.3	108	80-120
Cadmium	2.02	0.200	"	2.07	97.9	80-120
Copper	42.3	0.400	"	41.3	102	80-120
Lead	20.2	0.200	"	20.7	97.9	80-120
Nickel	43.1	0.400	"	41.3	104	80-120
Silver	2.06	0.0200	"	2.07	99.9	80-120
Zinc	42.9	0.400	"	41.3	104	80-120
Selenium	4.58	0.260	"	4.13	111	80-120

Duplicate (BIC1757-DUP1)

Source: 2503123-01

Prepared: 03/28/25 Analyzed: 04/14/25

Arsenic	5.61	0.200	mg/kg dry	5.26	6.36	20
Barium	139	0.400	"	144	3.91	20
Cadmium	0.238	0.200	"	0.203	16.1	20
Copper	5.67	0.400	"	5.62	0.863	20
Lead	6.31	0.200	"	6.45	2.20	20
Nickel	8.96	0.400	"	8.97	0.101	20
Silver	0.0222	0.0200	"	0.0211	4.78	20
Zinc	20.9	0.400	"	21.4	2.32	20
Selenium	ND	0.260	"	ND		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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BIC1757 - EPA 3050B

Matrix Spike (BIC1757-MS1)	Source: 2503123-01			Prepared: 03/28/25		Analyzed: 04/14/25					
Arsenic	55.2	0.200	mg/kg dry	43.8	5.26	114	75-125				
Barium	190	0.400	"	43.8	144	105	75-125				
Cadmium	2.37	0.200	"	2.19	0.203	99.1	75-125				
Copper	50.4	0.400	"	43.8	5.62	102	75-125				
Lead	27.8	0.200	"	21.9	6.45	97.4	75-125				
Nickel	56.9	0.400	"	43.8	8.97	109	75-125				
Silver	2.18	0.0200	"	2.19	0.0211	98.7	75-125				
Zinc	70.4	0.400	"	43.8	21.4	112	75-125				
Selenium	4.48	0.260	"	4.38	ND	102	75-125				

Matrix Spike Dup (BIC1757-MSD1)	Source: 2503123-01			Prepared: 03/28/25		Analyzed: 04/14/25					
Arsenic	55.7	0.200	mg/kg dry	44.2	5.26	114	75-125	0.786	25		
Barium	174	0.400	"	44.2	144	67.7	75-125	8.76	25		QM-05
Cadmium	2.41	0.200	"	2.21	0.203	99.8	75-125	1.36	25		
Copper	49.8	0.400	"	44.2	5.62	99.9	75-125	1.18	25		
Lead	28.2	0.200	"	22.1	6.45	98.7	75-125	1.64	25		
Nickel	54.6	0.400	"	44.2	8.97	103	75-125	4.06	25		
Silver	2.23	0.0200	"	2.21	0.0211	99.8	75-125	1.89	25		
Zinc	70.1	0.400	"	44.2	21.4	110	75-125	0.299	25		
Selenium	4.62	0.260	"	4.42	ND	105	75-125	3.17	25		

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BIC0839 - 3060A Mod

Blank (BIC0839-BLK1)		Prepared: 03/14/25 Analyzed: 03/17/25								
Chromium, Hexavalent	ND	0.30	mg/kg wet							
LCS (BIC0839-BS1)		Prepared: 03/14/25 Analyzed: 03/17/25								
Chromium, Hexavalent	26.1	0.30	mg/kg wet	26.0		100	80-120			
Duplicate (BIC0839-DUP1)		Source: 2503123-01		Prepared: 03/14/25 Analyzed: 03/17/25						
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
Matrix Spike (BIC0839-MS1)		Source: 2503123-01		Prepared: 03/14/25 Analyzed: 03/17/25						
Chromium, Hexavalent	29.1	0.30	mg/kg dry	28.7	ND	101	75-125			
Matrix Spike Dup (BIC0839-MSD1)		Source: 2503123-01		Prepared: 03/14/25 Analyzed: 03/17/25						
Chromium, Hexavalent	28.7	0.30	mg/kg dry	27.8	ND	103	75-125	1.48	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
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
 Project Number: UWRWE-A2952-ABN
 Project Manager: Mike Medina

Reported:
 04/23/25 10:47

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

Summit Scientific

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

Batch BIC1878 - General Preparation

Blank (BIC1878-BLK1)

Prepared: 03/31/25 Analyzed: 04/11/25

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

LCS (BIC1878-BS1)

Prepared: 03/31/25 Analyzed: 04/11/25

Calcium	5.78	0.0500	mg/L wet	5.00	116	70-130
Magnesium	5.60	0.0500	"	5.00	112	70-130
Sodium	5.54	0.0500	"	5.00	111	70-130

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
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline

Project Number: UWRWE-A2952-ABN
 Project Manager: Mike Medina

Reported:
 04/23/25 10:47

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

Summit Scientific

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

Batch BIC0504 - General Preparation

Duplicate (BIC0504-DUP1)

Source: 2503103-01

Prepared & Analyzed: 03/10/25

% Solids	81.4		%		84.7			3.94	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
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline

Project Number: UWRWE-A2952-ABN
 Project Manager: Mike Medina

Reported:
 04/23/25 10:47

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

Summit Scientific

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

Batch BIC1865 - General Preparation

Blank (BIC1865-BLK1)

Prepared: 03/31/25 Analyzed: 04/04/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BIC1865-BS1)

Prepared: 03/31/25 Analyzed: 04/04/25

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 103 95-105

Duplicate (BIC1865-DUP1)

Source: 2503116-01

Prepared: 03/31/25 Analyzed: 04/04/25

Specific Conductance (EC) 3.99 0.0100 mmhos/cm 3.97 0.402 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
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline

Project Number: UWRWE-A2952-ABN
 Project Manager: Mike Medina

Reported:
 04/23/25 10:47

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

Summit Scientific

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

Batch BIC1845 - General Preparation

LCS (BIC1845-BS1)

Prepared: 03/31/25 Analyzed: 04/04/25

pH 9.21 pH Units 9.18 100 95-105

Duplicate (BIC1845-DUP1)

Source: 2503116-01

Prepared: 03/31/25 Analyzed: 04/04/25

pH 9.30 pH Units 9.31 0.107 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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Lyster E26-23 Flowline
Project Number: UWRWE-A2952-ABN
Project Manager: Mike Medina

Reported:
04/23/25 10:47

Notes and Definitions

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.

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