

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 26, 2025

Andy Sagen

Tasman Geosciences

4725 Independence St.

Wheat Ridge, CO 80033

RE: Noble - Frico 37-15

Work Order #2504343

Enclosed are the results of analyses for samples received by Summit Scientific on 04/21/25 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Amanda Stilwell For Paul Shrewsbury

President

Please Note - Out-of-Hold Results Included:

The 8260B GBTEXN 915 analyses were analyzed outside of allotted holding times due to delays at Summit Scientific.



Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Frico 37-15

Project Number: [none]
Project Manager: Andy Sagen

Reported:
06/26/25 20:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH04R@5-6'	2504343-01	Soil	04/21/25 12:00	04/21/25 16:30
BH05R@5-6'	2504343-02	Soil	04/21/25 12:30	04/21/25 16:30

Case Narrative

Project Name has been corrected to match COC on 06/11/2025.

The 8260B GBTEXN 915 analyses were completed outside of allotted holding times due to delays at Summit Scientific.

This report has been revised to include the proper hold-time qualifiers.

This is a revision of the report originally sent on 06/09/2025 at 11:34 AM MT.

Summit Scientific

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

Lab ID	Page 1 of 1
2504343	

Client: Noble/Tasman 4725 Independence St	Send Data To: Project Manager: Andy Sagen	Send Invoice To: Company: Noble
Address: 6855 W. 119th Ave. Wheatridge, CO 80033	E-Mail: tas-chevron-1@tasman-geo.com	Project Name/Location: Frico 37-15
City/State/Zip: Broomfield, CO 80020	RBUEF27@Chevron.com / Dan Peterson@Chevron.com	AFE#:
Phone: 303-487-1228	Project Name: Frico 37-15	PO/Billing Codes:
Sampler Name: Billy Morrow	Project Number:	Contact: Dan Peterson

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested							Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Metals - 915	VOC - 915	TPH - 915	PAH - 915	SAR, EC, pH	Boron - HWS		HOLD	
1	BH04R@ S-6'	4-21-25	1200	2			X			X			X	X	X	X	X	X		SAR, EC, pH by saturated paste	
2	BH05R@ S-6'	4-21-25	1230	1			X			X			X	X	X	X	X	X			
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by: Billy Morrow	Date/Time: 4-21-25 1430	Received by: Tasman Lock Box	Date/Time: 4-21-25 1430	TAT Business Days	Field DO	Notes:
		52 North	4-21-25 1430	Same Day	Field EC	
Relinquished by: SL	Date/Time: 4/21/25 1130	Received by: [Signature]	Date/Time: 4/21/25 1130	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	<input checked="" type="checkbox"/> Field Turb.	
Temperature Upon Receipt: -3	Corrected Temperature: 8	IR gun #:	1	HNO3 lot #:		



Tasman Geosciences
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Wheat Ridge CO, 80033

Project: Noble - Frico 37-15

Project Number: [none]
Project Manager: Andy Sagen

Reported:
06/26/25 20:40

BH04R@5-6'
2504343-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

I-02

Date Sampled: **04/21/25 12:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg dry	1	BID1338	04/24/25	05/17/25	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	0.54	0.50	"	"	"	"	"	"	

Date Sampled: **04/21/25 12:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0484	102 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0495	104 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0463	97.1 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/21/25 12:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg dry	1	BID1340	04/24/25	05/22/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/21/25 12:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<i>Surrogate: o-Terphenyl</i>	8.35	56.0 %	50-140		"	"	"	"	

PAH by EPA Method 8270E SIM

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Project Number: [none]
Project Manager: Andy Sagen

Reported:
06/26/25 20:40

BH04R@5-6'
2504343-01 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

Date Sampled: **04/21/25 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg dry	1	BID1240	04/23/25	05/24/25	EPA 8270E SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.00595	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.00655	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0249	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.0135	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0659	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0516	0.00500	"	"	"	"	"	"	

Date Sampled: **04/21/25 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0265	66.7 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0287	72.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/21/25 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BID1161	04/22/25	04/25/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/21/25 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Frico 37-15

Project Number: [none]
Project Manager: Andy Sagen

Reported:
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BH04R@5-6'
2504343-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	5.32	0.200	mg/kg dry	1	BID1251	04/23/25	04/24/25	EPA 6020B
Barium	288	0.400	"	"	"	"	"	"
Cadmium	0.343	0.200	"	"	"	"	"	"
Copper	7.93	0.400	"	"	"	"	"	"
Lead	13.0	0.200	"	"	"	"	"	"
Nickel	7.12	0.400	"	"	"	"	"	"
Silver	0.0596	0.0200	"	"	"	"	"	"
Zinc	25.5	0.400	"	"	"	"	"	"
Selenium	0.373	0.260	"	"	"	"	"	"

Hexavalent Chromium by HACH M8023

Date Sampled: 04/21/25 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID1160	04/22/25	04/22/25	Hach 8000	

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

Date Sampled: 04/21/25 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	277	0.0500	mg/L dry	1	BIE0274	05/06/25	06/04/25	EPA 6020B	
Magnesium	16.7	0.0500	"	"	"	"	"	"	
Sodium	95.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 04/21/25 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.51	0.00100	units	1	BIF0068	06/05/25	06/05/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 04/21/25 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Frico 37-15

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 06/26/25 20:40

BH04R@5-6'
2504343-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.9	%	1	BID1164	04/22/25	04/22/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/21/25 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.502	0.0100	mmhos/cm	1	BIE0276	05/06/25	05/08/25	EPA 120.1	

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

Date Sampled: **04/21/25 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.28		pH Units	1	BIE0275	05/06/25	05/08/25	EPA 9045D	

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Project: Noble - Frico 37-15

Project Number: [none]
Project Manager: Andy Sagen

Reported:
06/26/25 20:40

BH05R@5-6'
2504343-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

I-02

Date Sampled: **04/21/25 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg dry	1	BID1338	04/24/25	05/17/25	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: **04/21/25 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0564	112 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0530	105 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0548	109 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/21/25 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg dry	1	BID1340	04/24/25	05/22/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/21/25 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	9.54	60.5 %	50-140	"	"	"	"	"	

PAH by EPA Method 8270E SIM

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Project: Noble - Frico 37-15

Project Number: [none]
Project Manager: Andy Sagen

Reported:
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BH05R@5-6'
2504343-02 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

Date Sampled: **04/21/25 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg dry	1	BID1240	04/23/25	05/24/25	EPA 8270E 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	0.0187	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.00961	0.00500	"	"	"	"	"	"	

Date Sampled: **04/21/25 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0313	74.4 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0322	76.5 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/21/25 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BID1161	04/22/25	04/25/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/21/25 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Frico 37-15

Project Number: [none]
Project Manager: Andy Sagen

Reported:
06/26/25 20:40

BH05R@5-6'
2504343-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	5.17	0.200	mg/kg dry	1	BID1251	04/23/25	04/24/25	EPA 6020B
Barium	237	0.400	"	"	"	"	"	"
Cadmium	0.401	0.200	"	"	"	"	"	"
Copper	10.3	0.400	"	"	"	"	"	"
Lead	23.6	0.200	"	"	"	"	"	"
Nickel	7.78	0.400	"	"	"	"	"	"
Silver	0.0697	0.0200	"	"	"	"	"	"
Zinc	32.4	0.400	"	"	"	"	"	"
Selenium	0.790	0.260	"	"	"	"	"	"

Hexavalent Chromium by HACH M8023

Date Sampled: 04/21/25 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID1160	04/22/25	04/22/25	Hach 8000	

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

Date Sampled: 04/21/25 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	56.6	0.0500	mg/L dry	1	BIE0274	05/06/25	06/04/25	EPA 6020B	
Magnesium	4.61	0.0500	"	"	"	"	"	"	
Sodium	112	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 04/21/25 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.85	0.00100	units	1	BIF0068	06/05/25	06/05/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 04/21/25 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: [none]
 Project Manager: Andy Sagen

Reported:
 06/26/25 20:40

BH05R@5-6'
2504343-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	79.3	%	1	BID1164	04/22/25	04/22/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/21/25 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.729	0.0100	mmhos/cm	1	BIE0276	05/06/25	05/08/25	EPA 120.1	

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

Date Sampled: **04/21/25 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.46		pH Units	1	BIE0275	05/06/25	05/08/25	EPA 9045D	

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Project: Noble - Frico 37-15

Project Number: [none]
Project Manager: Andy Sagen

Reported:
06/26/25 20:40

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 BID1338 - EPA 5030 Soil MS

Blank (BID1338-BLK1)

Prepared: 04/24/25 Analyzed: 05/16/25

Benzene	ND	0.0020	mg/kg wet							
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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0432		"	0.0400		108	50-150			
<i>Surrogate: Toluene-d8</i>	0.0397		"	0.0400		99.2	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0401		"	0.0400		100	50-150			

LCS (BID1338-BS1)

Prepared: 04/24/25 Analyzed: 05/16/25

Benzene	0.113	0.0020	mg/kg wet	0.100		113	70-130			
Toluene	0.112	0.0050	"	0.100		112	70-130			
Ethylbenzene	0.111	0.0050	"	0.100		111	70-130			
m,p-Xylene	0.220	0.010	"	0.200		110	70-130			
o-Xylene	0.103	0.0050	"	0.100		103	70-130			
1,2,4-Trimethylbenzene	0.107	0.0050	"	0.100		107	70-130			
1,3,5-Trimethylbenzene	0.108	0.0050	"	0.100		108	70-130			
Naphthalene	0.0956	0.0038	"	0.100		95.6	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0439		"	0.0400		110	50-150			
<i>Surrogate: Toluene-d8</i>	0.0410		"	0.0400		103	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0426		"	0.0400		107	50-150			

Matrix Spike (BID1338-MS1)

Source: 2504323-17

Prepared: 04/24/25 Analyzed: 05/16/25

Benzene	0.121	0.0020	mg/kg dry	0.117	ND	103	70-130			
Toluene	0.118	0.0050	"	0.117	ND	101	70-130			
Ethylbenzene	0.119	0.0050	"	0.117	ND	101	70-130			
m,p-Xylene	0.241	0.010	"	0.235	ND	103	70-130			
o-Xylene	0.111	0.0050	"	0.117	ND	94.7	70-130			
1,2,4-Trimethylbenzene	0.112	0.0050	"	0.117	ND	95.1	70-130			
1,3,5-Trimethylbenzene	0.114	0.0050	"	0.117	ND	97.1	70-130			
Naphthalene	0.0914	0.0038	"	0.117	ND	77.9	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0494		"	0.0470		105	50-150			
<i>Surrogate: Toluene-d8</i>	0.0480		"	0.0470		102	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0495		"	0.0470		105	50-150			

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Frico 37-15

Project Number: [none]
Project Manager: Andy Sagen

Reported:
06/26/25 20:40

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 BID1338 - EPA 5030 Soil MS

Matrix Spike Dup (BID1338-MSD1)	Source: 2504323-17			Prepared: 04/24/25 Analyzed: 05/16/25						
Benzene	0.123	0.0020	mg/kg dry	0.117	ND	104	70-130	1.71	30	
Toluene	0.118	0.0050	"	0.117	ND	100	70-130	0.239	30	
Ethylbenzene	0.117	0.0050	"	0.117	ND	99.9	70-130	1.49	30	
m,p-Xylene	0.231	0.010	"	0.235	ND	98.3	70-130	4.30	30	
o-Xylene	0.109	0.0050	"	0.117	ND	93.1	70-130	1.69	30	
1,2,4-Trimethylbenzene	0.111	0.0050	"	0.117	ND	94.4	70-130	0.760	30	
1,3,5-Trimethylbenzene	0.110	0.0050	"	0.117	ND	94.1	70-130	3.14	30	
Naphthalene	0.0977	0.0038	"	0.117	ND	83.2	70-130	6.63	30	
Surrogate: 1,2-Dichloroethane-d4	0.0494		"	0.0470		105	50-150			
Surrogate: Toluene-d8	0.0482		"	0.0470		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0484		"	0.0470		103	50-150			

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Frico 37-15

Project Number: [none]
Project Manager: Andy Sagen

Reported:
06/26/25 20:40

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 BID1340 - EPA 3550A

Blank (BID1340-BLK1)

Prepared: 04/24/25 Analyzed: 05/22/25

C10-C28 (DRO)	ND	50	mg/kg wet								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	10.3		"	12.5		82.7	50-140				

LCS (BID1340-BS1)

Prepared: 04/24/25 Analyzed: 05/22/25

C10-C28 (DRO)	412	50	mg/kg wet	500		82.5	50-140				
Surrogate: <i>o</i> -Terphenyl	13.5		"	12.5		108	50-140				

Matrix Spike (BID1340-MS1)

Source: 2504323-17

Prepared: 04/24/25 Analyzed: 05/22/25

C10-C28 (DRO)	419	50	mg/kg dry	587	ND	71.3	50-140				
Surrogate: <i>o</i> -Terphenyl	14.2		"	14.7		97.0	50-140				

Matrix Spike Dup (BID1340-MSD1)

Source: 2504323-17

Prepared: 04/24/25 Analyzed: 05/22/25

C10-C28 (DRO)	363	50	mg/kg dry	587	ND	61.8	50-140	14.3	20		
Surrogate: <i>o</i> -Terphenyl	13.5		"	14.7		91.9	50-140				

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Frico 37-15

Project Number: [none]
Project Manager: Andy Sagen

Reported:
06/26/25 20:40

PAH by EPA Method 8270E SIM - Quality Control

Summit Scientific

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

Batch BID1240 - EPA 5030 Soil MS

Blank (BID1240-BLK1)

Prepared: 04/23/25 Analyzed: 05/22/25

Acenaphthene	ND	0.00500	mg/kg wet							
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	0.0191		"	0.0333		57.2	40-140			
Surrogate: Fluoranthene-d10	0.0208		"	0.0333		62.4	40-140			

LCS (BID1240-BS1)

Prepared: 04/23/25 Analyzed: 05/22/25

Acenaphthene	0.0153	0.00500	mg/kg wet	0.0333		45.9	40-140			
Anthracene	0.0147	0.00500	"	0.0333		44.2	40-140			
Benzo (a) anthracene	0.0146	0.00500	"	0.0333		43.8	40-140			
Benzo (a) pyrene	0.0157	0.00500	"	0.0333		47.1	40-140			
Benzo (b) fluoranthene	0.0155	0.00500	"	0.0333		46.4	40-140			
Benzo (k) fluoranthene	0.0151	0.00500	"	0.0333		45.4	40-140			
Chrysene	0.0153	0.00500	"	0.0333		45.8	40-140			
Dibenz (a,h) anthracene	0.0181	0.00500	"	0.0333		54.3	40-140			
Fluoranthene	0.0170	0.00500	"	0.0333		51.0	40-140			
Fluorene	0.0147	0.00500	"	0.0333		44.1	40-140			
Indeno (1,2,3-cd) pyrene	0.0173	0.00500	"	0.0333		51.9	40-140			
Pyrene	0.0200	0.00500	"	0.0333		60.1	40-140			
1-Methylnaphthalene	0.0149	0.00500	"	0.0333		44.6	40-140			
2-Methylnaphthalene	0.0148	0.00500	"	0.0333		44.5	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0169		"	0.0333		50.7	40-140			
Surrogate: Fluoranthene-d10	0.0193		"	0.0333		58.0	40-140			

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Frico 37-15

Project Number: [none]
Project Manager: Andy Sagen

Reported:
06/26/25 20:40

PAH by EPA Method 8270E SIM - Quality Control

Summit Scientific

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

Batch BID1240 - EPA 5030 Soil MS

Matrix Spike (BID1240-MS1)	Source: 2504332-01			Prepared: 04/23/25 Analyzed: 05/23/25						
Acenaphthene	0.0229	0.00500	mg/kg dry	0.0384	ND	59.6	40-140			
Anthracene	0.0212	0.00500	"	0.0384	ND	55.1	40-140			
Benzo (a) anthracene	0.0224	0.00500	"	0.0384	ND	58.2	40-140			
Benzo (a) pyrene	0.0213	0.00500	"	0.0384	ND	55.5	40-140			
Benzo (b) fluoranthene	0.0200	0.00500	"	0.0384	ND	52.0	40-140			
Benzo (k) fluoranthene	0.0207	0.00500	"	0.0384	ND	53.7	40-140			
Chrysene	0.0224	0.00500	"	0.0384	ND	58.3	40-140			
Dibenz (a,h) anthracene	0.0219	0.00500	"	0.0384	ND	57.0	40-140			
Fluoranthene	0.0295	0.00500	"	0.0384	ND	76.7	40-140			
Fluorene	0.0231	0.00500	"	0.0384	ND	60.0	40-140			
Indeno (1,2,3-cd) pyrene	0.0235	0.00500	"	0.0384	ND	61.3	40-140			
Pyrene	0.0322	0.00500	"	0.0384	ND	83.8	40-140			
1-Methylnaphthalene	0.0234	0.00500	"	0.0384	ND	60.9	40-140			
2-Methylnaphthalene	0.0231	0.00500	"	0.0384	ND	60.0	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0251		"	0.0384		65.4	40-140			
Surrogate: Fluoranthene-d10	0.0290		"	0.0384		75.4	40-140			

Matrix Spike Dup (BID1240-MSD1)	Source: 2504332-01			Prepared: 04/23/25 Analyzed: 05/23/25						
Acenaphthene	0.0175	0.00500	mg/kg dry	0.0384	ND	45.6	40-140	26.7	30	
Anthracene	0.0170	0.00500	"	0.0384	ND	44.3	40-140	21.8	30	
Benzo (a) anthracene	0.0187	0.00500	"	0.0384	ND	48.8	40-140	17.6	30	
Benzo (a) pyrene	0.0156	0.00500	"	0.0384	ND	40.7	40-140	30.8	30	QR-03
Benzo (b) fluoranthene	0.0157	0.00500	"	0.0384	ND	40.7	40-140	24.3	30	
Benzo (k) fluoranthene	0.0158	0.00500	"	0.0384	ND	41.0	40-140	26.9	30	
Chrysene	0.0190	0.00500	"	0.0384	ND	49.4	40-140	16.7	30	
Dibenz (a,h) anthracene	0.0218	0.00500	"	0.0384	ND	56.7	40-140	0.476	30	
Fluoranthene	0.0209	0.00500	"	0.0384	ND	54.3	40-140	34.2	30	QR-03
Fluorene	0.0173	0.00500	"	0.0384	ND	45.0	40-140	28.7	30	
Indeno (1,2,3-cd) pyrene	0.0225	0.00500	"	0.0384	ND	58.6	40-140	4.43	30	
Pyrene	0.0268	0.00500	"	0.0384	ND	69.6	40-140	18.5	30	
1-Methylnaphthalene	0.0167	0.00500	"	0.0384	ND	43.5	40-140	33.2	30	QR-03
2-Methylnaphthalene	0.0171	0.00500	"	0.0384	ND	44.4	40-140	29.8	30	
Surrogate: 2-Methylnaphthalene-d10	0.0187		"	0.0384		48.7	40-140			
Surrogate: Fluoranthene-d10	0.0206		"	0.0384		53.5	40-140			

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Frico 37-15

Project Number: [none]
Project Manager: Andy Sagen

Reported:
06/26/25 20:40

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

Summit Scientific

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

Batch BID1161 - EPA 3050B

Blank (BID1161-BLK1)

Prepared: 04/22/25 Analyzed: 04/25/25

Boron ND 2.00 mg/L wet

LCS (BID1161-BS1)

Prepared: 04/22/25 Analyzed: 04/25/25

Boron 5.11 2.00 mg/L wet 5.00 102 80-120

Duplicate (BID1161-DUP1)

Source: 2504338-02

Prepared: 04/22/25 Analyzed: 04/25/25

Boron 0.494 2.00 mg/L dry 0.484 1.92 20

Matrix Spike (BID1161-MS1)

Source: 2504338-02

Prepared: 04/22/25 Analyzed: 04/25/25

Boron 5.58 2.00 mg/L dry 5.54 0.484 92.1 75-125

Matrix Spike Dup (BID1161-MSD1)

Source: 2504338-02

Prepared: 04/22/25 Analyzed: 04/25/25

Boron 5.55 2.00 mg/L dry 5.54 0.484 91.5 75-125 0.644 25

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Frico 37-15

Project Number: [none]
Project Manager: Andy Sagen

Reported:
06/26/25 20:40

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 BID1251 - EPA 3050B

Blank (BID1251-BLK1)

Prepared & Analyzed: 04/23/25

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 (BID1251-BS1)

Prepared & Analyzed: 04/23/25

Arsenic	36.1	0.200	mg/kg wet	41.7	86.6	80-120
Barium	37.2	0.400	"	41.7	89.4	80-120
Cadmium	1.77	0.200	"	2.08	85.1	80-120
Copper	38.2	0.400	"	41.7	91.7	80-120
Lead	18.1	0.200	"	20.8	86.8	80-120
Nickel	37.6	0.400	"	41.7	90.2	80-120
Silver	1.82	0.0200	"	2.08	87.5	80-120
Zinc	36.8	0.400	"	41.7	88.4	80-120
Selenium	4.04	0.260	"	4.17	97.0	80-120

Duplicate (BID1251-DUP1)

Source: 2504342-01

Prepared & Analyzed: 04/23/25

Arsenic	1.76	0.200	mg/kg dry	1.61	9.07	20	
Barium	237	0.400	"	302	24.2	20	QR-04
Cadmium	0.0990	0.200	"	0.0860	14.1	20	
Copper	3.24	0.400	"	3.22	0.470	20	
Lead	2.72	0.200	"	2.74	0.641	20	
Nickel	2.03	0.400	"	1.79	12.4	20	
Silver	0.0116	0.0200	"	0.0106	9.34	20	
Zinc	9.84	0.400	"	8.71	12.2	20	
Selenium	0.412	0.260	"	0.299	32.0	20	QR-04

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Frico 37-15

Project Number: [none]
Project Manager: Andy Sagen

Reported:
06/26/25 20:40

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 BID1251 - EPA 3050B

Matrix Spike (BID1251-MS1)	Source: 2504342-01			Prepared & Analyzed: 04/23/25							
Arsenic	42.8	0.200	mg/kg dry	42.4	1.61	97.2	75-125				
Barium	306	0.400	"	42.4	302	9.39	75-125				QM-05
Cadmium	2.09	0.200	"	2.12	0.0860	94.5	75-125				
Copper	37.5	0.400	"	42.4	3.22	80.8	75-125				
Lead	24.0	0.200	"	21.2	2.74	100	75-125				
Nickel	33.4	0.400	"	42.4	1.79	74.6	75-125				QM-05
Silver	1.82	0.0200	"	2.12	0.0106	85.6	75-125				
Zinc	49.8	0.400	"	42.4	8.71	97.0	75-125				
Selenium	4.01	0.260	"	4.24	0.299	87.5	75-125				

Matrix Spike Dup (BID1251-MSD1)	Source: 2504342-01			Prepared & Analyzed: 04/23/25							
Arsenic	38.6	0.200	mg/kg dry	43.8	1.61	84.6	75-125	10.3	25		
Barium	244	0.400	"	43.8	302	NR	75-125	22.5	25	QM-05	
Cadmium	2.00	0.200	"	2.19	0.0860	87.5	75-125	4.32	25		
Copper	36.0	0.400	"	43.8	3.22	75.0	75-125	3.91	25		
Lead	21.5	0.200	"	21.9	2.74	85.9	75-125	10.9	25		
Nickel	34.7	0.400	"	43.8	1.79	75.1	75-125	3.74	25		
Silver	1.89	0.0200	"	2.19	0.0106	85.7	75-125	3.32	25		
Zinc	42.4	0.400	"	43.8	8.71	76.9	75-125	16.2	25		
Selenium	4.68	0.260	"	4.38	0.299	100	75-125	15.4	25		

Summit Scientific

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Tasman Geosciences
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Frico 37-15

Project Number: [none]
 Project Manager: Andy Sagen

Reported:
 06/26/25 20:40

Hexavalent Chromium by HACH M8023 - Quality Control
Summit Scientific

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

Batch BID1160 - 3060A Mod

Blank (BID1160-BLK1)

Prepared & Analyzed: 04/22/25

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BID1160-BS1)

Prepared & Analyzed: 04/22/25

Chromium, Hexavalent 26.2 0.30 mg/kg wet 25.3 104 80-120

Duplicate (BID1160-DUP1)

Source: 2504297-01

Prepared & Analyzed: 04/22/25

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BID1160-MS1)

Source: 2504297-01

Prepared & Analyzed: 04/22/25

Chromium, Hexavalent 26.2 0.30 mg/kg dry 26.0 ND 101 75-125

Matrix Spike Dup (BID1160-MSD1)

Source: 2504297-01

Prepared & Analyzed: 04/22/25

Chromium, Hexavalent 27.7 0.30 mg/kg dry 26.5 ND 104 75-125 5.69 20

Summit Scientific

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Tasman Geosciences
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Frico 37-15

Project Number: [none]
 Project Manager: Andy Sagen

Reported:
 06/26/25 20:40

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

Summit Scientific

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

Batch BIE0274 - General Preparation

Blank (BIE0274-BLK1)

Prepared: 05/06/25 Analyzed: 06/04/25

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

LCS (BIE0274-BS1)

Prepared: 05/06/25 Analyzed: 06/04/25

Calcium	6.16	0.0500	mg/L wet	5.00		123	70-130			
Magnesium	5.19	0.0500	"	5.00		104	70-130			
Sodium	5.04	0.0500	"	5.00		101	70-130			

Summit Scientific

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Tasman Geosciences
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Frico 37-15

Project Number: [none]
 Project Manager: Andy Sagen

Reported:
 06/26/25 20:40

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 BID1164 - General Preparation

Duplicate (BID1164-DUP1)

Source: 2504342-01

Prepared & Analyzed: 04/22/25

% Solids	93.2		%		92.9			0.328		20	
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Summit Scientific

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Tasman Geosciences
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Frico 37-15

Project Number: [none]
 Project Manager: Andy Sagen

Reported:
 06/26/25 20:40

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 BIE0276 - General Preparation

Blank (BIE0276-BLK1)

Prepared: 05/06/25 Analyzed: 05/08/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BIE0276-BS1)

Prepared: 05/06/25 Analyzed: 05/08/25

Specific Conductance (EC) 0.147 0.0100 mmhos/cm 0.150 98.1 95-105

Duplicate (BIE0276-DUP1)

Source: 2504335-01

Prepared: 05/06/25 Analyzed: 05/08/25

Specific Conductance (EC) 0.569 0.0100 mmhos/cm 0.567 0.334 20

Summit Scientific

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Tasman Geosciences
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Frico 37-15

Project Number: [none]
 Project Manager: Andy Sagen

Reported:
 06/26/25 20:40

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 BIE0275 - General Preparation

LCS (BIE0275-BS1)

Prepared: 05/06/25 Analyzed: 05/08/25

pH	9.18	pH Units	9.18	100	95-105
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Duplicate (BIE0275-DUP1)

Source: 2504335-01

Prepared: 05/06/25 Analyzed: 05/08/25

pH	8.06	pH Units	8.05	0.124	20
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Summit Scientific

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



Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Frico 37-15

Project Number: [none]
Project Manager: Andy Sagen

Reported:
06/26/25 20:40

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values. Only applies to source/DUP and MS/MSD pairs.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- 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.
- I-02 Sample was prepared and/or analyzed outside of holding time.
- 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