

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 21, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Frenzel B15-25 (Flowline)

Work Order #2411221

Enclosed are the results of analyses for samples received by Summit Scientific on 11/13/24 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 "Jacob Wood". The signature is written in a cursive, flowing style.

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Frenzel B15-25 (Flowline)  
Project Number: UWRWE-A2534-ABN CO22-196  
Project Manager: Paul Henchan

**Reported:**  
11/21/24 11:39

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	2411221-01	Water	11/13/24 00:00	11/13/24 16:30
MW-2	2411221-02	Water	11/13/24 00:00	11/13/24 16:30
MW-3	2411221-03	Water	11/13/24 00:00	11/13/24 16:30
MW-4	2411221-04	Water	11/13/24 00:00	11/13/24 16:30
MW-5	2411221-05	Water	11/13/24 00:00	11/13/24 16:30
MW-6	2411221-06	Water	11/13/24 00:00	11/13/24 16:30

Summit Scientific

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Relinquished by: <u>Dolan</u> <u>Bullock</u>	Date/Time: <u>11/13/24</u> <u>15:15</u>	Received by: <u>S2-North office</u>	Date/Time: <u>11/13/24</u> <u>15:15</u>	TAT Business Days	Field DO	<b>Notes:</b> Dist. Report to parties circled in the email line(s) only. * - please see attached sticky note for analysis requested
				Same Day	Field EC	
Relinquished by: <u>S2</u>	Date/Time: <u>11/13/24</u> <u>1630</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/13/24</u> <u>1630</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>6.9</u>	Corrected Temperature <u>6</u>		IR gun #: <u>1</u>	HNO3 lot #:		

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2411221Client: FremontClient Project ID: Frenzel BX-25 (Flowline)Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Matrix (Check all that apply)

Air ☐Soil/Solid ☐Water ☒Other ☐

Temp (°C)

6.9

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

AS

Custodian Printed Name

11/13/24

Date/Time



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PO Box 1289  
Wellington CO, 80549

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**Reported:**  
11/21/24 11:39

**MW-1**  
**2411221-01 (Water)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/13/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Acenaphthene	ND	0.500		ug/l	1	BHK0874	11/16/24	11/19/24	EPA 8270D SIM	
Benzo (a) anthracene	ND	0.100		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.200		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.200		"	"	"	"	"	"	
Fluorene	ND	0.200		"	"	"	"	"	"	
Pyrene	ND	1.00		"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.500		"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.500		"	"	"	"	"	"	

Date Sampled: **11/13/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 2-Methylnaphthalene-d10	1.74	87.2 %		40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	1.86	92.9 %		40-140		"	"	"	"	

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**Reported:**  
11/21/24 11:39

**MW-2**  
**2411221-02 (Water)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/13/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.500	ug/l	1	BHK0874	11/16/24	11/19/24	EPA 8270D SIM	
Benzo (a) anthracene	ND	0.100	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.200	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.200	"	"	"	"	"	"	
Fluorene	ND	0.200	"	"	"	"	"	"	
Pyrene	ND	1.00	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **11/13/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.79	89.4 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	1.81	90.4 %	40-140		"	"	"	"	

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**MW-3**  
**2411221-03 (Water)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/13/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.500	ug/l	1	BHK0874	11/16/24	11/19/24	EPA 8270D SIM	
Benzo (a) anthracene	ND	0.100	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.200	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.200	"	"	"	"	"	"	
Fluorene	ND	0.200	"	"	"	"	"	"	
Pyrene	ND	1.00	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **11/13/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.70	85.2 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	1.89	94.7 %	40-140		"	"	"	"	

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**MW-4**  
**2411221-04 (Water)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/13/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.500	ug/l	1	BHK0874	11/16/24	11/19/24	EPA 8270D SIM	
Benzo (a) anthracene	ND	0.100	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.200	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.200	"	"	"	"	"	"	
Fluorene	ND	0.200	"	"	"	"	"	"	
Pyrene	ND	1.00	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **11/13/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.70	85.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	1.85	92.6 %	40-140		"	"	"	"	

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11/21/24 11:39

**MW-5**  
**2411221-05 (Water)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/13/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.500	ug/l	1	BHK0874	11/16/24	11/19/24	EPA 8270D SIM	
Benzo (a) anthracene	ND	0.100	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.200	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.200	"	"	"	"	"	"	
Fluorene	ND	0.200	"	"	"	"	"	"	
Pyrene	ND	1.00	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **11/13/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.70	85.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	1.83	91.7 %	40-140		"	"	"	"	

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**Reported:**  
11/21/24 11:39

**MW-6**  
**2411221-06 (Water)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/13/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.500	ug/l	1	BHK0874	11/16/24	11/19/24	EPA 8270D SIM	
Benzo (a) anthracene	ND	0.100	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.200	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.200	"	"	"	"	"	"	
Fluorene	ND	0.200	"	"	"	"	"	"	
Pyrene	ND	1.00	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.500	"	"	"	"	"	"	

Date Sampled: **11/13/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	1.37	68.3 %	40-140		"	"	11/19/24	"	
Surrogate: Fluoranthene-d10	1.54	76.8 %	40-140		"	"	"	"	

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### PAH by EPA Method 8270D SIM - Quality Control

#### Summit Scientific

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

#### Batch BHK0874 - EPA 5030 Water MS

##### Blank (BHK0874-BLK1)

Prepared: 11/16/24 Analyzed: 11/18/24

Acenaphthene	ND	0.500	ug/l							
Benzo (a) anthracene	ND	0.100	"							
Benzo (a) pyrene	ND	0.200	"							
Dibenz (a,h) anthracene	ND	0.200	"							
Fluorene	ND	0.200	"							
Pyrene	ND	1.00	"							
1-Methylnaphthalene	ND	0.500	"							
2-Methylnaphthalene	ND	0.500	"							
Surrogate: 2-Methylnaphthalene-d10	1.92		"	2.00		95.9	40-140			
Surrogate: Fluoranthene-d10	2.09		"	2.00		104	40-140			

##### LCS (BHK0874-BS1)

Prepared: 11/16/24 Analyzed: 11/18/24

Acenaphthene	1.99	0.500	ug/l	2.00		99.3	40-140			
Benzo (a) anthracene	1.75	0.100	"	2.00		87.4	40-140			
Benzo (a) pyrene	1.60	0.200	"	2.00		80.1	40-140			
Dibenz (a,h) anthracene	0.857	0.200	"	2.00		42.9	40-140			
Fluorene	1.70	0.200	"	2.00		85.0	40-140			
Pyrene	1.79	1.00	"	2.00		89.6	40-140			
1-Methylnaphthalene	1.81	0.500	"	2.00		90.6	40-140			
2-Methylnaphthalene	1.67	0.500	"	2.00		83.3	40-140			
Surrogate: 2-Methylnaphthalene-d10	1.73		"	2.00		86.3	40-140			
Surrogate: Fluoranthene-d10	1.89		"	2.00		94.7	40-140			

##### LCS Dup (BHK0874-BSD1)

Prepared: 11/16/24 Analyzed: 11/18/24

Acenaphthene	1.98	0.500	ug/l	2.00		99.1	40-140	0.183	30	
Benzo (a) anthracene	1.91	0.100	"	2.00		95.5	40-140	8.82	30	
Benzo (a) pyrene	1.77	0.200	"	2.00		88.4	40-140	9.88	30	
Dibenz (a,h) anthracene	1.09	0.200	"	2.00		54.3	40-140	23.6	30	
Fluorene	1.84	0.200	"	2.00		92.2	40-140	8.15	30	
Pyrene	1.99	1.00	"	2.00		99.4	40-140	10.4	30	
1-Methylnaphthalene	2.00	0.500	"	2.00		100	40-140	9.89	30	
2-Methylnaphthalene	1.86	0.500	"	2.00		92.9	40-140	10.9	30	
Surrogate: 2-Methylnaphthalene-d10	1.92		"	2.00		96.1	40-140			
Surrogate: Fluoranthene-d10	2.01		"	2.00		100	40-140			

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**Notes and Definitions**

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference