

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 07, 2025

Paul Henehan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Libsack RG27
Work Order #2501050

Enclosed are the results of analyses for samples received by Summit Scientific on 01/07/25 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 'Amanda Stilwell', with a stylized flourish at the end.

Amanda Stilwell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Libsack RG27

Project Number: CO13-009
Project Manager: Paul Henchan

Reported:
05/07/25 20:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW6	2501050-01	Water	01/06/25 09:00	01/07/25 16:30
MW7	2501050-02	Water	01/06/25 09:15	01/07/25 16:30
MW13	2501050-03	Water	01/06/25 09:30	01/07/25 16:30
MW14	2501050-04	Water	01/06/25 09:45	01/07/25 16:30
MW16	2501050-05	Water	01/06/25 10:00	01/07/25 16:30
MW17R	2501050-06	Water	01/06/25 10:15	01/07/25 16:30
MW18	2501050-07	Water	01/06/25 10:30	01/07/25 16:30
MW22	2501050-08	Water	01/06/25 10:45	01/07/25 16:30
MW23	2501050-09	Water	01/06/25 11:00	01/07/25 16:30
MW24R	2501050-10	Water	01/06/25 11:15	01/07/25 16:30
MW25R	2501050-11	Water	01/06/25 11:30	01/07/25 16:30
MW26R	2501050-12	Water	01/06/25 11:45	01/07/25 16:30
MW28	2501050-13	Water	01/06/25 12:00	01/07/25 16:30
MW31	2501050-14	Water	01/06/25 12:15	01/07/25 16:30
MW29	2501050-15	Water	01/06/25 12:30	01/07/25 16:30

Case Narrative

This revised report has been reissued to denote the holding time exceedance for method 300.0

This is a revision of the report originally sent on 02/11/2025 at 15:47 MT.

Summit Scientific

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SUMMIT SCIENTIFIC

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

Lab ID	Page / of /
2501050	

Client: Fremont Environmental		Send Data To:		Send Invoice To:	
Address: 8305 6th Street		Project Manager: Paul Henehan		Company: Noble / Chevron	
City/State/Zip: Wellington, CO 80549		E-Mail:		Project Name/Location:	
Phone: 603-477-6907		Project Name: Libsack RG27		AFE#:	
Sampler Name: Aaron Otillar		Project Number: C013-009		PO/Billing Codes:	
				Contact: Don Peterson	

				Preservative				Matrix				Analysis Requested				Special Instructions			
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Table 915-1 Organics	Table 915-1 Inorganics					
1	MW6	1/6/25	0900	4	3		1		x				x	x					
2	MW7		0915																
3	MW13		0930																
4	MW14		0945																
5	MW16		1000																
6	MW17R		1015																
7	MW18		1030																
8	MW22		1045																
9	MW23		1100																
10	MW24R		1115																
11	MW25R		1130																
12	MW26R		1145																
13	MW28		1200																
14	MW31		1215																
15	MW29		1230																

Relinquished by:	Date/Time:	Received by:	Date/Time:	TAT Business Days	Field DO	Notes:
<i>Aaron Otillar</i>	1/6/25 2210	<i>Summit North Office</i>	1/6/25 2210	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
<i>SL</i>	1/7/25 1430	<i>[Signature]</i>	1/7/25 1430	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	x Field Turb.	
Temperature Upon Receipt:	3.1	Corrected Temperature	8	IR gun #:	1	HNO3 lot #:

S₂

Sample Receipt Checklist

S2 Work Order# 250 1050Client: Tremont Client Project ID: Libsack PG 27Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

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

Matrix (Check all that apply) Air ☐ Soil/Solid ☐ Water ☒ Other ☐Temp (°C) 3.1Thermometer # 1

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

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

1/7/25
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Libsack RG27
Project Number: CO13-009
Project Manager: Paul Henchan

Reported:
05/07/25 20:13

MW6
2501050-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/06/25 09:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BIA0460	01/11/25	01/12/25	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **01/06/25 09:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	16.8	126 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.6	102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.5	101 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/06/25 09:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chloride	326	0.0600	mg/L	50	BIB0001	02/01/25	02/06/25	EPA 300.0	I-02
Sulfate	346	0.300	"	"	"	"	"	"	I-02

Total Dissolved Solids by SM2540C

Date Sampled: **01/06/25 09:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Total Dissolved Solids	1640	10.0	mg/L	1	BIA0266	01/08/25	01/08/25	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Libsack RG27

Project Number: CO13-009
Project Manager: Paul Henchan

Reported:
05/07/25 20:13

MW7
2501050-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/06/25 09:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BIA0460	01/11/25	01/12/25	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **01/06/25 09:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	16.7	125 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.6	102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.1	98.6 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/06/25 09:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	325	0.0600	mg/L	50	BIB0001	02/01/25	02/06/25	EPA 300.0	I-02
Sulfate	414	0.300	"	"	"	"	"	"	I-02

Total Dissolved Solids by SM2540C

Date Sampled: **01/06/25 09:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	1730	10.0	mg/L	1	BIA0266	01/08/25	01/08/25	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Libsack RG27
Project Number: CO13-009
Project Manager: Paul Henchan

Reported:
05/07/25 20:13

MW13
2501050-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/06/25 09:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BIA0460	01/11/25	01/12/25	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **01/06/25 09:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	16.8	126 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.8	104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	14.6	110 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/06/25 09:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	324	0.0600	mg/L	50	BIB0001	02/01/25	02/06/25	EPA 300.0	I-02
Sulfate	435	0.300	"	"	"	"	"	"	I-02

Total Dissolved Solids by SM2540C

Date Sampled: **01/06/25 09:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	1920	10.0	mg/L	1	BIA0264	01/08/25	01/08/25	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Libsack RG27
Project Number: CO13-009
Project Manager: Paul Henchan

Reported:
05/07/25 20:13

MW14
2501050-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/06/25 09:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BIA0460	01/11/25	01/12/25	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **01/06/25 09:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	17.0	128 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.6	102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.4	101 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/06/25 09:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	325	0.0600	mg/L	50	BIB0001	02/01/25	02/06/25	EPA 300.0	I-02
Sulfate	368	0.300	"	"	"	"	"	"	I-02

Total Dissolved Solids by SM2540C

Date Sampled: **01/06/25 09:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	1740	10.0	mg/L	1	BIA0264	01/08/25	01/08/25	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Libsack RG27
Project Number: CO13-009
Project Manager: Paul Henchan

Reported:
05/07/25 20:13

MW16
2501050-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/06/25 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BIA0460	01/11/25	01/12/25	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **01/06/25 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	17.4	131 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	14.0	105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.2	98.6 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/06/25 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	473	0.0600	mg/L	50	BIB0001	02/01/25	02/06/25	EPA 300.0	I-02
Sulfate	437	0.300	"	"	"	"	"	"	I-02

Total Dissolved Solids by SM2540C

Date Sampled: **01/06/25 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	2180	10.0	mg/L	1	BIA0264	01/08/25	01/08/25	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Libsack RG27
Project Number: CO13-009
Project Manager: Paul Henchan

Reported:
05/07/25 20:13

MW17R
2501050-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/06/25 10:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BIA0460	01/11/25	01/12/25	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **01/06/25 10:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	17.3	130 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.7	103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	14.4	108 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/06/25 10:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	277	0.0600	mg/L	50	BIB0001	02/01/25	02/07/25	EPA 300.0	I-02
Sulfate	496	0.300	"	"	"	"	"	"	I-02

Total Dissolved Solids by SM2540C

Date Sampled: **01/06/25 10:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	2130	10.0	mg/L	1	BIA0264	01/08/25	01/08/25	SM2540C	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Libsack RG27

Project Number: CO13-009
Project Manager: Paul Henchan

Reported:
05/07/25 20:13

MW18
2501050-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/06/25 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BIA0460	01/11/25	01/12/25	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **01/06/25 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	16.9	127 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.6	102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.2	99.0 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/06/25 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	182	0.0600	mg/L	50	BIB0001	02/01/25	02/07/25	EPA 300.0	I-02
Sulfate	243	0.300	"	"	"	"	"	"	I-02

Total Dissolved Solids by SM2540C

Date Sampled: **01/06/25 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	1100	10.0	mg/L	1	BIA0264	01/08/25	01/08/25	SM2540C	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Libsack RG27
Project Number: CO13-009
Project Manager: Paul Henchan

Reported:
05/07/25 20:13

MW22
2501050-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/06/25 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BIA0460	01/11/25	01/12/25	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **01/06/25 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	16.9	127 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.7	103 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.7	103 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/06/25 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	349	0.0600		mg/L	50	BIB0001	02/01/25	02/07/25	EPA 300.0	I-02
Sulfate	487	0.300		"	"	"	"	"	"	I-02

Total Dissolved Solids by SM2540C

Date Sampled: **01/06/25 10:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1740	10.0		mg/L	1	BIA0264	01/08/25	01/08/25	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Libsack RG27
Project Number: CO13-009
Project Manager: Paul Henchan

Reported:
05/07/25 20:13

MW23
2501050-09 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/06/25 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BIA0460	01/11/25	01/12/25	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **01/06/25 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	16.8	126 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	14.0	105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.4	101 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/06/25 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	287	0.0600	mg/L	50	BIB0001	02/01/25	02/07/25	EPA 300.0	I-02
Sulfate	465	0.300	"	"	"	"	"	"	I-02

Total Dissolved Solids by SM2540C

Date Sampled: **01/06/25 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	1670	10.0	mg/L	1	BIA0264	01/08/25	01/08/25	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Libsack RG27
Project Number: CO13-009
Project Manager: Paul Henchan

Reported:
05/07/25 20:13

MW24R
2501050-10 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/06/25 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BIA0460	01/11/25	01/12/25	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **01/06/25 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	17.4	130 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.5	101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	14.1	106 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/06/25 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	369	0.0600	mg/L	50	BIB0001	02/01/25	02/07/25	EPA 300.0	I-02
Sulfate	450	0.300	"	"	"	"	"	"	I-02

Total Dissolved Solids by SM2540C

Date Sampled: **01/06/25 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	2270	10.0	mg/L	1	BIA0264	01/08/25	01/08/25	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Libsack RG27

Project Number: CO13-009
Project Manager: Paul Henchan

Reported:
05/07/25 20:13

MW25R
2501050-11 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/06/25 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	4.1	1.0	ug/l	1	BIA0460	01/11/25	01/12/25	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	16	1.0	"	"	"	"	"	"	
Xylenes (total)	51	2.0	"	"	"	"	"	"	
Naphthalene	1.1	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	94	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **01/06/25 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	17.4	131 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	12.0	90.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	15.9	119 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/06/25 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	345	0.0600	mg/L	50	BIB0001	02/01/25	02/07/25	EPA 300.0	I-02
Sulfate	479	0.300	"	"	"	"	"	"	I-02

Total Dissolved Solids by SM2540C

Date Sampled: **01/06/25 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	2290	10.0	mg/L	1	BIA0264	01/08/25	01/08/25	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Libsack RG27
Project Number: CO13-009
Project Manager: Paul Henchan

Reported:
05/07/25 20:13

MW26R
2501050-12 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/06/25 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BIA0460	01/11/25	01/12/25	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **01/06/25 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	17.4	130 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.9	104 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	14.2	106 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/06/25 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	300	0.0600		mg/L	50	BIB0001	02/01/25	02/07/25	EPA 300.0	I-02
Sulfate	454	0.300		"	"	"	"	"	"	I-02

Total Dissolved Solids by SM2540C

Date Sampled: **01/06/25 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1850	10.0		mg/L	1	BIA0264	01/08/25	01/08/25	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Libsack RG27
Project Number: CO13-009
Project Manager: Paul Henchan

Reported:
05/07/25 20:13

MW28
2501050-13 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/06/25 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BIA0460	01/11/25	01/12/25	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **01/06/25 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	17.2	129 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.7	102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.4	101 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/06/25 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	404	0.0600	mg/L	50	BIB0001	02/01/25	02/07/25	EPA 300.0	I-02
Sulfate	480	0.300	"	"	"	"	"	"	I-02

Total Dissolved Solids by SM2540C

Date Sampled: **01/06/25 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	1950	10.0	mg/L	1	BIA0266	01/08/25	01/08/25	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Libsack RG27
Project Number: CO13-009
Project Manager: Paul Henchan

Reported:
05/07/25 20:13

MW31
2501050-14 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/06/25 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BIA0460	01/11/25	01/12/25	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **01/06/25 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	15.4	116 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.6	102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.6	94.3 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/06/25 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	231	0.0600	mg/L	50	BIB0001	02/01/25	02/07/25	EPA 300.0	I-02
Sulfate	207	0.300	"	"	"	"	"	"	I-02

Total Dissolved Solids by SM2540C

Date Sampled: **01/06/25 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	1050	10.0	mg/L	1	BIA0266	01/08/25	01/08/25	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Libsack RG27

Project Number: CO13-009
Project Manager: Paul Henchan

Reported:
05/07/25 20:13

MW29
2501050-15 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/06/25 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BIA0460	01/11/25	01/12/25	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **01/06/25 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	17.6	132 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.6	102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.7	103 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/06/25 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	521	0.0600	mg/L	50	BIB0001	02/01/25	02/07/25	EPA 300.0	I-02
Sulfate	776	0.300	"	"	"	"	"	"	I-02

Total Dissolved Solids by SM2540C

Date Sampled: **01/06/25 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	2590	10.0	mg/L	1	BIA0266	01/08/25	01/08/25	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Libsack RG27

Project Number: CO13-009
Project Manager: Paul Henchan

Reported:
05/07/25 20:13

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BIA0460 - EPA 5030 Water MS

Blank (BIA0460-BLK1)

Prepared: 01/11/25 Analyzed: 01/12/25

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.3		100	23-173			
Surrogate: Toluene-d8	13.5		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3		93.3	21-167			

LCS (BIA0460-BS1)

Prepared: 01/11/25 Analyzed: 01/12/25

Benzene	38.4	1.0	ug/l	33.3		115	51-132			
Toluene	37.8	1.0	"	33.3		113	51-138			
Ethylbenzene	36.7	1.0	"	33.3		110	58-146			
m,p-Xylene	66.7	2.0	"	66.7		100	57-144			
o-Xylene	33.1	1.0	"	33.3		99.2	53-146			
Naphthalene	23.7	1.0	"	33.3		71.1	70-130			
1,2,4-Trimethylbenzene	34.2	1.0	"	33.3		103	70-130			
1,3,5-Trimethylbenzene	35.3	1.0	"	33.3		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.3		100	23-173			
Surrogate: Toluene-d8	13.6		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	12.3		"	13.3		92.2	21-167			

LCS Dup (BIA0460-BSD1)

Prepared: 01/11/25 Analyzed: 01/12/25

Benzene	39.1	1.0	ug/l	33.3		117	51-132	1.86	20	
Toluene	37.8	1.0	"	33.3		113	51-138	0.132	20	
Ethylbenzene	39.2	1.0	"	33.3		118	58-146	6.56	20	
m,p-Xylene	71.5	2.0	"	66.7		107	57-144	7.03	20	
o-Xylene	35.7	1.0	"	33.3		107	53-146	7.53	20	
Naphthalene	26.4	1.0	"	33.3		79.2	70-130	10.8	20	
1,2,4-Trimethylbenzene	36.2	1.0	"	33.3		109	70-130	5.67	20	
1,3,5-Trimethylbenzene	38.0	1.0	"	33.3		114	70-130	7.53	20	
Surrogate: 1,2-Dichloroethane-d4	13.1		"	13.3		98.4	23-173			
Surrogate: Toluene-d8	13.6		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3		93.1	21-167			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Libsack RG27

Project Number: CO13-009
Project Manager: Paul Henchan

Reported:
05/07/25 20:13

Anions by EPA Method 300.0 - Quality Control

Summit Scientific

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

Batch BIB0001 - General Preparation

Blank (BIB0001-BLK1)

Prepared: 02/01/25 Analyzed: 02/10/25

Chloride	ND	0.0600	mg/L
Sulfate	ND	0.300	"

LCS (BIB0001-BS1)

Prepared: 02/01/25 Analyzed: 02/06/25

Chloride	2.96	0.0600	mg/L	3.00	98.7	90-110
Sulfate	15.0	0.300	"	15.0	99.7	90-110

Duplicate (BIB0001-DUP1)

Source: 2501035-01

Prepared: 02/01/25 Analyzed: 02/06/25

Chloride	349	0.0600	mg/L	345	0.969	20
Sulfate	273	0.300	"	275	0.540	20

Matrix Spike (BIB0001-MS1)

Source: 2501035-01

Prepared: 02/01/25 Analyzed: 02/06/25

Chloride	493	0.0600	mg/L	150	345	98.6	80-120
Sulfate	1040	0.300	"	750	275	103	80-120

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Libsack RG27

Project Number: CO13-009
Project Manager: Paul Henchan

Reported:
05/07/25 20:13

Total Dissolved Solids by SM2540C - Quality Control
Summit Scientific

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

Batch BIA0264 - General Preparation

Blank (BIA0264-BLK1)

Prepared & Analyzed: 01/08/25

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BIA0264-DUP1)

Source: 2501045-01

Prepared & Analyzed: 01/08/25

Total Dissolved Solids 1200 10.0 mg/L 1280 7.18 20

Batch BIA0266 - General Preparation

Blank (BIA0266-BLK1)

Prepared & Analyzed: 01/08/25

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BIA0266-DUP1)

Source: 2501050-01

Prepared & Analyzed: 01/08/25

Total Dissolved Solids 1660 10.0 mg/L 1640 1.64 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.



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Libsack RG27

Project Number: CO13-009
Project Manager: Paul Henchan

Reported:
05/07/25 20:13

Notes and Definitions

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