

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

June 12, 2023

Paul Henehan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Loustalet 64N64W 30

Work Order # 2305374

Enclosed are the results of analyses for samples received by Summit Scientific on 05/16/23 14:56. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet 64N64W 30

Project Number: [none]
Project Manager: Paul Henehan

Reported:
06/12/23 11:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01@4.0'	2305374-01	Soil	05/15/23 00:00	05/16/23 14:56
SEP01@5.5'	2305374-02	Soil	05/15/23 00:00	05/16/23 14:56
SEP02@5.5'	2305374-03	Soil	05/15/23 00:00	05/16/23 14:56
PWVB01@7.0'	2305374-04	Soil	05/15/23 00:00	05/16/23 14:56
PWVN01@6.0'	2305374-05	Soil	05/15/23 00:00	05/16/23 14:56
PWVS01@6.0'	2305374-06	Soil	05/15/23 00:00	05/16/23 14:56
PWVE01@6.0'	2305374-07	Soil	05/15/23 00:00	05/16/23 14:56
PWVW01@6.0'	2305374-08	Soil	05/15/23 00:00	05/16/23 14:56
BKG01@6.0''	2305374-09	Soil	05/15/23 00:00	05/16/23 14:56

Case Narrative

Ethan Black requested Metals be added to PWVW01@6.0' & AST01@4.0' on 5/31/2023. This report includes those results.

SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2305374	

Client: Fremont Env	Send Data To: Project Manager: Paul Henahan	Send Invoice To: Company: Noble
Address:	E-Mail: Paulh@fremontenv.com	Project Name/Location:
City/State/Zip:	Jeffj@fremontenv.com Ethanb@fremontenv.com	AFE#:
Phone:	Project Name: Loustalet-64N64U 30	PO/Billing Codes:
Sampler Name: JG	Project Number:	Contact:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX+N	TMBs(915)	DRO,ORO,GRO	PAHs(915)	EC,SPM,SO ₂ ,SO ₄ ,Baron		Metals(915)
1	AST01@4.0'	5/15/23		2			X			X			X	X	X	X	X		
2	SEP01@5.5'																		
3	SEP02@5.5'																		
4	PWB01@7.0'																		
5	PWV01@6.0'																		
6	PWV01@6.0'																		
7	PWVE01@6.0'																		
8	PWVW01@6.0'			2									X	X	X	X			
9	BKG01@6.0"			2													X	X	
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <i>[Signature]</i>	Date/Time: 5/16/23 1455	Received by: <i>[Signature]</i>	Date/Time: 5/16/23/45	TAT Business Days	Field DO	Notes: Bill to Noble
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	X Field Turb.	
Temperature Upon Receipt: 19.8	Corrected Temperature: —	IR gun #: 02	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2305374

Client: Fremont Environmental Client Project ID: Laus talet - 64N64W30

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

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) 19.8

Thermometer # 02

	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"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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 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)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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.				

A
Custodian Printed Name

5/16/23 1456
Date/Time



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet 64N64W 30

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 06/12/23 11:48

AST01@4.0'
2305374-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	0.052	0.020		mg/kg	10	BGE0618	05/17/23	05/18/23	EPA 8260B	
Toluene	0.63	0.050		"	"	"	"	"	"	
Ethylbenzene	ND	0.050		"	"	"	"	"	"	
Xylenes (total)	6.7	0.10		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	2.8	0.050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	1.9	0.050		"	"	"	"	"	"	
Naphthalene	0.14	0.038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	130	5.0		"	"	"	"	"	"	

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		117 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		92.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		131 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	95	50		mg/kg	1	BGE0619	05/17/23	05/18/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		115 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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2305374-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGE0633	05/18/23	05/18/23	EPA 8270D SIM	
Anthracene	ND	0.00500		"	"	"	"	"	"	"
Benzo (a) anthracene	0.00980	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	0.0322	0.00500		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	"
Pyrene	ND	0.00500		"	"	"	"	"	"	"
1-Methylnaphthalene	0.415	0.100		"	20	"	"	05/19/23	"	"
2-Methylnaphthalene	0.889	0.100		"	"	"	"	"	"	"

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		100 %		40-150		"	"	05/18/23	"	"
Surrogate: Fluoranthene-d10		82.6 %		40-150		"	"	"	"	"

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.216	0.0100		mg/L	1	BGE0783	05/23/23	05/24/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet 64N64W 30

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 06/12/23 11:48

AST01@4.0'
2305374-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	0.483	0.214	mg/kg dry	1	BGF0155	06/05/23	06/07/23	EPA 6020B
Barium	31.7	0.429	"	"	"	"	"	"
Cadmium	ND	0.214	"	"	"	"	"	"
Copper	1.25	0.429	"	"	"	"	"	"
Lead	2.73	0.214	"	"	"	"	"	"
Nickel	1.05	0.429	"	"	"	"	"	"
Selenium	ND	0.279	0.188	"	"	"	"	"
Silver	ND	0.0214	"	"	"	"	"	"
Zinc	4.14	0.429	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0260	06/07/23	06/08/23	EPA 7196A	

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

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	147	0.0536		mg/L dry	1	BGE0771	05/22/23	05/23/23	EPA 6020B	
Magnesium	35.5	0.0536		"	"	"	"	"	"	
Sodium	95.4	0.0536		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.83	0.00100		units	1	BGE0855	05/24/23	05/24/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project Number: [none]
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Reported:
 06/12/23 11:48

AST01@4.0'
2305374-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	93.3			%	1	BGE0687	05/19/23	05/19/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.705	0.0100		mmhos/cm	1	BGE0815	05/23/23	05/23/23	EPA 120.1	

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

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	6.51			pH Units	1	BGE0813	05/23/23	05/23/23	EPA 9045D	



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Project Number: [none]
Project Manager: Paul Henehan

Reported:
06/12/23 11:48

SEP01@5.5'
2305374-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGE0618	05/17/23	05/18/23	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: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		112 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		103 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		114 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGE0619	05/17/23	05/18/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		125 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Loustalet 64N64W 30

Project Number: [none]
Project Manager: Paul Henehan

Reported:
06/12/23 11:48

SEP01@5.5'
2305374-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGE0633	05/18/23	05/18/23	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: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		64.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		54.4 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.162	0.0100		mg/L	1	BGE0783	05/23/23	05/24/23	EPA 6020B	

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

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Loustalet 64N64W 30

Project Number: [none]
Project Manager: Paul Henehan

Reported:
06/12/23 11:48

SEP01@5.5'
2305374-02 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	105	0.0541		mg/L dry	1	BGE0771	05/22/23	05/23/23	EPA 6020B	
Magnesium	24.3	0.0541		"	"	"	"	"	"	
Sodium	3.83	0.0541		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0876	0.00100		units	1	BGE0855	05/24/23	05/24/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.4			%	1	BGE0687	05/19/23	05/19/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.151	0.0100		mmhos/cm	1	BGE0815	05/23/23	05/23/23	EPA 120.1	

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

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	5.33			pH Units	1	BGE0813	05/23/23	05/23/23	EPA 9045D	

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Project: Noble - Loustalet 64N64W 30

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
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SEP02@5.5'
2305374-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGE0618	05/17/23	05/18/23	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: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		115 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		108 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGE0619	05/17/23	05/18/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		110 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet 64N64W 30

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 06/12/23 11:48

SEP02@5.5'
2305374-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500		mg/kg	1	BGE0633	05/18/23	05/18/23	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: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		99.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		81.8 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.181	0.0100		mg/L	1	BGE0783	05/23/23	05/24/23	EPA 6020B	

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

Date Sampled: **05/15/23 00:00**

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

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 - Loustalet 64N64W 30

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 06/12/23 11:48

SEP02@5.5'
2305374-03 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	66.7	0.0537		mg/L dry	1	BGE0771	05/22/23	05/23/23	EPA 6020B	
Magnesium	15.3	0.0537		"	"	"	"	"	"	
Sodium	4.78	0.0537		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.138	0.00100		units	1	BGE0855	05/24/23	05/24/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.0			%	1	BGE0687	05/19/23	05/19/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.187	0.0100		mmhos/cm	1	BGE0815	05/23/23	05/23/23	EPA 120.1	

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

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	5.47			pH Units	1	BGE0813	05/23/23	05/23/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet 64N64W 30

Project Number: [none]
Project Manager: Paul Henehan

Reported:
06/12/23 11:48

PWVB01@7.0'
2305374-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGE0618	05/17/23	05/18/23	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: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		118 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGE0619	05/17/23	05/18/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		104 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet 64N64W 30

Project Number: [none]
Project Manager: Paul Henehan

Reported:
06/12/23 11:48

PWVB01@7.0'
2305374-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500		mg/kg	1	BGE0633	05/18/23	05/18/23	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: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		63.7 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		62.9 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.197	0.0100		mg/L	1	BGE0783	05/23/23	05/24/23	EPA 6020B	

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

Date Sampled: **05/15/23 00:00**

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

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 - Loustalet 64N64W 30

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 06/12/23 11:48

PWVB01@7.0'
2305374-04 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	216	0.0555		mg/L dry	1	BGE0771	05/22/23	05/23/23	EPA 6020B	
Magnesium	45.9	0.0555		"	"	"	"	"	"	
Sodium	5.16	0.0555		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0832	0.00100		units	1	BGE0855	05/24/23	05/24/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.0			%	1	BGE0687	05/19/23	05/19/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.210	0.0100		mmhos/cm	1	BGE0815	05/23/23	05/23/23	EPA 120.1	

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

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.00			pH Units	1	BGE0813	05/23/23	05/23/23	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.



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet 64N64W 30

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 06/12/23 11:48

PWVN01@6.0'
2305374-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGE0618	05/17/23	05/18/23	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	0.14	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	3.8	0.50		"	"	"	"	"	"	

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<i>Surrogate: 1,2-Dichloroethane-d4</i>		114 %		50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		105 %		50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		119 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGE0619	05/17/23	05/18/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<i>Surrogate: o-Terphenyl</i>		90.4 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet 64N64W 30

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 06/12/23 11:48

PWVN01@6.0'
2305374-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500		mg/kg	1	BGE0633	05/18/23	05/18/23	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: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		70.3 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		85.0 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.160	0.0100		mg/L	1	BGE0783	05/23/23	05/24/23	EPA 6020B	

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

Date Sampled: **05/15/23 00:00**

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

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet 64N64W 30

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 06/12/23 11:48

PWVN01@6.0'
2305374-05 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	247	0.0545		mg/L dry	1	BGE0771	05/22/23	05/23/23	EPA 6020B	
Magnesium	59.7	0.0545		"	"	"	"	"	"	
Sodium	20.4	0.0545		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.302	0.00100		units	1	BGE0855	05/24/23	05/24/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.8			%	1	BGE0687	05/19/23	05/19/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.217	0.0100		mmhos/cm	1	BGE0815	05/23/23	05/23/23	EPA 120.1	

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

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.55			pH Units	1	BGE0813	05/23/23	05/23/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet 64N64W 30

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 06/12/23 11:48

PWVS01@6.0'
2305374-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGE0618	05/17/23	05/18/23	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: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		115 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		108 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGE0619	05/17/23	05/18/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		95.0 %		30-150		"	"	"	"	

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.



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet 64N64W 30

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 06/12/23 11:48

PWVS01@6.0'
2305374-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500		mg/kg	1	BGE0633	05/18/23	05/18/23	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: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		54.0 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		68.9 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.132	0.0100		mg/L	1	BGE0783	05/23/23	05/24/23	EPA 6020B	

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

Date Sampled: **05/15/23 00:00**

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

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet 64N64W 30

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 06/12/23 11:48

PWVS01@6.0'
2305374-06 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	191	0.0590		mg/L dry	1	BGE0771	05/22/23	05/23/23	EPA 6020B	
Magnesium	42.0	0.0590		"	"	"	"	"	"	
Sodium	49.7	0.0590		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.848	0.00100		units	1	BGE0855	05/24/23	05/24/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.8			%	1	BGE0687	05/19/23	05/19/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.186	0.0100		mmhos/cm	1	BGE0815	05/23/23	05/23/23	EPA 120.1	

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

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.24			pH Units	1	BGE0813	05/23/23	05/23/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet 64N64W 30

Project Number: [none]
Project Manager: Paul Henehan

Reported:
06/12/23 11:48

PWVE01@6.0'
2305374-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGE0618	05/17/23	05/18/23	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: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		110 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		96.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGE0619	05/17/23	05/18/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		95.8 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet 64N64W 30

Project Number: [none]
Project Manager: Paul Henehan

Reported:
06/12/23 11:48

PWVE01@6.0'
2305374-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500		mg/kg	1	BGE0633	05/18/23	05/19/23	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: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		79.2 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		81.2 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.0904	0.0100		mg/L	1	BGE0783	05/23/23	05/24/23	EPA 6020B	

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

Date Sampled: **05/15/23 00:00**

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

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet 64N64W 30

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 06/12/23 11:48

PWVE01@6.0'
2305374-07 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	193	0.0568		mg/L dry	1	BGE0771	05/22/23	05/23/23	EPA 6020B	
Magnesium	47.7	0.0568		"	"	"	"	"	"	
Sodium	23.2	0.0568		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.386	0.00100		units	1	BGE0855	05/24/23	05/24/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.1			%	1	BGE0687	05/19/23	05/19/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0877	0.0100		mmhos/cm	1	BGE0815	05/23/23	05/23/23	EPA 120.1	

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

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	5.85			pH Units	1	BGE0813	05/23/23	05/23/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet 64N64W 30

Project Number: [none]
Project Manager: Paul Henehan

Reported:
06/12/23 11:48

PWVW01@6.0'
2305374-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.020		mg/kg	10	BGE0618	05/17/23	05/18/23	EPA 8260B	
Toluene	ND	0.050		"	"	"	"	"	"	
Ethylbenzene	0.24	0.050		"	"	"	"	"	"	
Xylenes (total)	14	0.10		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	13	0.050		"	"	"	"	"	"	E
Naphthalene	1.7	0.038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	7600	5.0		"	"	"	"	"	"	E

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		1180 %		50-150		"	"	"	"	S-02
Surrogate: Toluene-d8		84.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		400 %		50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	180	50		mg/kg	1	BGE0619	05/17/23	05/18/23	EPA 8015M	
C28-C36 (ORO)	52	50		"	"	"	"	"	"	

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		66.1 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet 64N64W 30

Project Number: [none]
Project Manager: Paul Henehan

Reported:
06/12/23 11:48

PWVW01@6.0'
2305374-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGE0633	05/18/23	05/19/23	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	0.0705	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	0.0168	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	1.18	0.250		"	50	"	"	05/19/23	"	
2-Methylnaphthalene	2.87	0.250		"	"	"	"	"	"	

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		57.2 %		40-150		"	"	05/19/23	"	
Surrogate: Fluoranthene-d10		70.6 %		40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.677	0.0100		mg/L	1	BGE0783	05/23/23	05/24/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet 64N64W 30

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 06/12/23 11:48

PWVW01@6.0'
2305374-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.447	0.232		mg/kg dry	1	BGF0155	06/05/23	06/07/23	EPA 6020B	
Barium	64.2	0.463		"	"	"	"	"	"	
Cadmium	ND	0.232		"	"	"	"	"	"	
Copper	1.34	0.463		"	"	"	"	"	"	
Lead	3.88	0.232		"	"	"	"	"	"	
Nickel	1.18	0.463		"	"	"	"	"	"	
Selenium	ND	0.301	0.203	"	"	"	"	"	"	
Silver	ND	0.0232		"	"	"	"	"	"	
Zinc	5.18	0.463		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 05/15/23 00:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0260	06/07/23	06/08/23	EPA 7196A	

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

Date Sampled: 05/15/23 00:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	92.0	0.0579		mg/L dry	1	BGE0771	05/22/23	05/23/23	EPA 6020B	
Magnesium	15.8	0.0579		"	"	"	"	"	"	
Sodium	52.8	0.0579		"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 05/15/23 00:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.34	0.00100		units	1	BGE0855	05/24/23	05/24/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet 64N64W 30

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 06/12/23 11:48

PWVW01@6.0'
2305374-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	86.3			%	1	BGE0687	05/19/23	05/19/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.214	0.0100		mmhos/cm	1	BGE0815	05/23/23	05/23/23	EPA 120.1	

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

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	5.78			pH Units	1	BGE0813	05/23/23	05/23/23	EPA 9045D	



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet 64N64W 30

Project Number: [none]
Project Manager: Paul Henehan

Reported:
06/12/23 11:48

BKG01@6.0"
2305374-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.139	0.0100		mg/L	1	BGE0783	05/23/23	05/24/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Arsenic	0.391	0.212		mg/kg dry	1	BGE0658	05/18/23	05/22/23	EPA 6020B	
Barium	22.3	0.424		"	"	"	"	"	"	
Cadmium	ND	0.212		"	"	"	"	"	"	
Copper	1.01	0.424		"	"	"	"	"	"	
Lead	2.28	0.212		"	"	"	"	"	"	
Nickel	0.925	0.424		"	"	"	"	"	"	
Selenium	ND	0.275	0.185	"	"	"	"	"	"	
Silver	ND	0.0212		"	"	"	"	"	"	
Zinc	3.97	0.424		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGE0593	05/17/23	05/17/23	EPA 7196A	

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

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Calcium	42.3	0.0530		mg/L dry	1	BGE0771	05/22/23	05/23/23	EPA 6020B	
Magnesium	6.40	0.0530		"	"	"	"	"	"	
Sodium	0.765	0.0530		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet 64N64W 30

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 06/12/23 11:48

BKG01@6.0"
2305374-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0290	0.00100		units	1	BGE0855	05/24/23	05/24/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.4			%	1	BGE0687	05/19/23	05/19/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0499	0.0100		mmhos/cm	1	BGE0815	05/23/23	05/23/23	EPA 120.1	

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

Date Sampled: **05/15/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	5.06			pH Units	1	BGE0813	05/23/23	05/23/23	EPA 9045D	



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet 64N64W 30

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 06/12/23 11:48

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 BGE0618 - EPA 5030 Soil MS

Blank (BGE0618-BLK1)

Prepared: 05/17/23 Analyzed: 05/18/23

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0428		"	0.0400		107	50-150			
<i>Surrogate: Toluene-d8</i>	0.0421		"	0.0400		105	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0436		"	0.0400		109	50-150			

LCS (BGE0618-BS1)

Prepared: 05/17/23 Analyzed: 05/18/23

Benzene	0.126	0.0020	mg/kg	0.125		101	70-130			
Toluene	0.145	0.0050	"	0.125		116	70-130			
Ethylbenzene	0.124	0.0050	"	0.125		98.8	70-130			
m,p-Xylene	0.322	0.010	"	0.250		129	70-130			
o-Xylene	0.140	0.0050	"	0.125		112	70-130			
1,2,4-Trimethylbenzene	0.123	0.0050	"	0.125		98.1	70-130			
1,3,5-Trimethylbenzene	0.120	0.0050	"	0.125		96.2	70-130			
Naphthalene	0.124	0.0038	"	0.125		99.6	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0413		"	0.0400		103	50-150			
<i>Surrogate: Toluene-d8</i>	0.0428		"	0.0400		107	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0418		"	0.0400		104	50-150			

Matrix Spike (BGE0618-MS1)

Source: 2305357-01

Prepared: 05/17/23 Analyzed: 05/18/23

Benzene	0.113	0.0020	mg/kg	0.125	ND	90.8	70-130			
Toluene	0.140	0.0050	"	0.125	ND	112	70-130			
Ethylbenzene	0.149	0.0050	"	0.125	ND	119	70-130			
m,p-Xylene	0.292	0.010	"	0.250	ND	117	70-130			
o-Xylene	0.132	0.0050	"	0.125	ND	106	70-130			
1,2,4-Trimethylbenzene	0.147	0.0050	"	0.125	ND	118	70-130			
1,3,5-Trimethylbenzene	0.151	0.0050	"	0.125	ND	120	70-130			
Naphthalene	0.124	0.0038	"	0.125	ND	98.8	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0426		"	0.0400		107	50-150			
<i>Surrogate: Toluene-d8</i>	0.0424		"	0.0400		106	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0412		"	0.0400		103	50-150			

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Project: Noble - Loustalet 64N64W 30

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 06/12/23 11:48

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

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

Batch BGE0618 - EPA 5030 Soil MS

Matrix Spike Dup (BGE0618-MSD1)	Source: 2305357-01			Prepared: 05/17/23 Analyzed: 05/18/23						
Benzene	0.112	0.0020	mg/kg	0.125	ND	89.4	70-130	1.55	30	
Toluene	0.140	0.0050	"	0.125	ND	112	70-130	0.343	30	
Ethylbenzene	0.146	0.0050	"	0.125	ND	117	70-130	1.81	30	
m,p-Xylene	0.285	0.010	"	0.250	ND	114	70-130	2.65	30	
o-Xylene	0.131	0.0050	"	0.125	ND	105	70-130	0.934	30	
1,2,4-Trimethylbenzene	0.147	0.0050	"	0.125	ND	118	70-130	0.387	30	
1,3,5-Trimethylbenzene	0.148	0.0050	"	0.125	ND	118	70-130	2.01	30	
Naphthalene	0.124	0.0038	"	0.125	ND	99.3	70-130	0.436	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0451</i>		<i>"</i>	<i>0.0400</i>		<i>113</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0426</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0414</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>50-150</i>			



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Project: Noble - Loustalet 64N64W 30

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 06/12/23 11:48

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 BGE0619 - EPA 3550A

Blank (BGE0619-BLK1)

Prepared: 05/17/23 Analyzed: 05/18/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	14.4		"	12.5		115		30-150			

LCS (BGE0619-BS1)

Prepared: 05/17/23 Analyzed: 05/18/23

C10-C28 (DRO)	401	50	mg/kg	500		80.1		70-130			
Surrogate: <i>o</i> -Terphenyl	9.84		"	12.5		78.7		30-150			

Matrix Spike (BGE0619-MS1)

Source: 2305357-01

Prepared: 05/17/23 Analyzed: 05/18/23

C10-C28 (DRO)	502	50	mg/kg	500	ND	100		70-130			
Surrogate: <i>o</i> -Terphenyl	12.7		"	12.5		101		30-150			

Matrix Spike Dup (BGE0619-MSD1)

Source: 2305357-01

Prepared: 05/17/23 Analyzed: 05/18/23

C10-C28 (DRO)	434	50	mg/kg	500	ND	86.7		70-130	14.6	20	
Surrogate: <i>o</i> -Terphenyl	11.5		"	12.5		91.7		30-150			



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Project: Noble - Loustalet 64N64W 30

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 06/12/23 11:48

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 BGE0633 - EPA 5030 Soil MS

Blank (BGE0633-BLK1)

Prepared & Analyzed: 05/18/23

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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0398</i>		"	<i>0.0333</i>		<i>119</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0354</i>		"	<i>0.0333</i>		<i>106</i>	<i>40-150</i>			

LCS (BGE0633-BS1)

Prepared & Analyzed: 05/18/23

Acenaphthene	0.0329	0.00500	mg/kg	0.0333	98.7	31-137
Anthracene	0.0341	0.00500	"	0.0333	102	30-120
Benzo (a) anthracene	0.0341	0.00500	"	0.0333	102	30-120
Benzo (a) pyrene	0.0323	0.00500	"	0.0333	96.8	30-120
Benzo (b) fluoranthene	0.0352	0.00500	"	0.0333	105	30-120
Benzo (k) fluoranthene	0.0344	0.00500	"	0.0333	103	30-120
Chrysene	0.0331	0.00500	"	0.0333	99.4	30-120
Dibenz (a,h) anthracene	0.0314	0.00500	"	0.0333	94.2	30-120
Fluoranthene	0.0340	0.00500	"	0.0333	102	30-120
Fluorene	0.0348	0.00500	"	0.0333	104	30-120
Indeno (1,2,3-cd) pyrene	0.0334	0.00500	"	0.0333	100	30-120
Pyrene	0.0369	0.00500	"	0.0333	111	35-142
1-Methylnaphthalene	0.0379	0.00500	"	0.0333	114	35-142
2-Methylnaphthalene	0.0391	0.00500	"	0.0333	117	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0289</i>		"	<i>0.0333</i>	<i>86.7</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0346</i>		"	<i>0.0333</i>	<i>104</i>	<i>40-150</i>

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Wellington CO, 80549

Project: Noble - Loustalet 64N64W 30

Project Number: [none]
Project Manager: Paul Henehan

Reported:
06/12/23 11:48

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 BGE0633 - EPA 5030 Soil MS

Matrix Spike (BGE0633-MS1)	Source: 2305374-01			Prepared & Analyzed: 05/18/23								
Acenaphthene	0.0373	0.00500	mg/kg	0.0333	ND	112	31-137					
Anthracene	0.0238	0.00500	"	0.0333	ND	71.5	30-120					
Benzo (a) anthracene	0.0277	0.00500	"	0.0333	0.00980	53.8	30-120					
Benzo (a) pyrene	0.0227	0.00500	"	0.0333	ND	68.0	30-120					
Benzo (b) fluoranthene	0.0258	0.00500	"	0.0333	ND	77.4	30-120					
Benzo (k) fluoranthene	0.0249	0.00500	"	0.0333	ND	74.8	30-120					
Chrysene	0.0309	0.00500	"	0.0333	0.00400	80.8	30-120					
Dibenz (a,h) anthracene	0.0215	0.00500	"	0.0333	ND	64.6	30-120					
Fluoranthene	0.0285	0.00500	"	0.0333	ND	85.6	30-120					
Fluorene	0.0413	0.00500	"	0.0333	0.0322	27.5	30-120					QM-01
Indeno (1,2,3-cd) pyrene	0.0184	0.00500	"	0.0333	ND	55.3	30-120					
Pyrene	0.0285	0.00500	"	0.0333	0.00292	76.9	35-142					
1-Methylnaphthalene	0.314	0.00500	"	0.0333	0.415	NR	15-130					QM-01
2-Methylnaphthalene	0.505	0.00500	"	0.0333	0.889	NR	15-130					QM-01
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0200</i>		<i>"</i>	<i>0.0333</i>		<i>60.1</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0274</i>		<i>"</i>	<i>0.0333</i>		<i>82.3</i>	<i>40-150</i>					

Matrix Spike Dup (BGE0633-MSD1)	Source: 2305374-01			Prepared & Analyzed: 05/18/23								
Acenaphthene	0.0434	0.00500	mg/kg	0.0333	ND	130	31-137	15.3	30			
Anthracene	0.0217	0.00500	"	0.0333	ND	65.2	30-120	9.26	30			
Benzo (a) anthracene	0.0278	0.00500	"	0.0333	0.00980	54.1	30-120	0.264	30			
Benzo (a) pyrene	0.0216	0.00500	"	0.0333	ND	64.8	30-120	4.74	30			
Benzo (b) fluoranthene	0.0245	0.00500	"	0.0333	ND	73.5	30-120	5.20	30			
Benzo (k) fluoranthene	0.0224	0.00500	"	0.0333	ND	67.2	30-120	10.7	30			
Chrysene	0.0325	0.00500	"	0.0333	0.00400	85.5	30-120	4.93	30			
Dibenz (a,h) anthracene	0.0224	0.00500	"	0.0333	ND	67.2	30-120	3.87	30			
Fluoranthene	0.0259	0.00500	"	0.0333	ND	77.8	30-120	9.55	30			
Fluorene	0.0458	0.00500	"	0.0333	0.0322	40.9	30-120	10.3	30			
Indeno (1,2,3-cd) pyrene	0.0190	0.00500	"	0.0333	ND	57.1	30-120	3.27	30			
Pyrene	0.0256	0.00500	"	0.0333	0.00292	67.9	35-142	11.0	30			
1-Methylnaphthalene	0.667	0.00500	"	0.0333	0.415	757	15-130	71.9	50			QM-01
2-Methylnaphthalene	0.926	0.00500	"	0.0333	0.889	110	15-130	58.7	50			QM-01
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0258</i>		<i>"</i>	<i>0.0333</i>		<i>77.5</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0238</i>		<i>"</i>	<i>0.0333</i>		<i>71.4</i>	<i>40-150</i>					

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Project: Noble - Loustalet 64N64W 30

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 06/12/23 11:48

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 BGE0783 - EPA 3050B

Blank (BGE0783-BLK1)

Prepared: 05/23/23 Analyzed: 05/24/23

Boron ND 0.0100 mg/L

LCS (BGE0783-BS1)

Prepared: 05/23/23 Analyzed: 05/24/23

Boron 4.06 0.0100 mg/L 5.00 81.3 80-120

Duplicate (BGE0783-DUP1)

Source: 2305374-01

Prepared: 05/23/23 Analyzed: 05/24/23

Boron 0.210 0.0100 mg/L 0.216 2.77 20

Matrix Spike (BGE0783-MS1)

Source: 2305374-01

Prepared: 05/23/23 Analyzed: 05/24/23

Boron 4.31 0.0100 mg/L 5.00 0.216 81.9 75-125

Matrix Spike Dup (BGE0783-MSD1)

Source: 2305374-01

Prepared: 05/23/23 Analyzed: 05/24/23

Boron 4.44 0.0100 mg/L 5.00 0.216 84.4 75-125 2.82 25



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 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet 64N64W 30

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 06/12/23 11:48

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 BGE0658 - EPA 3050B

Blank (BGE0658-BLK1)

Prepared: 05/18/23 Analyzed: 05/22/23

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	"							
Selenium	ND	0.260	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							

LCS (BGE0658-BS1)

Prepared: 05/18/23 Analyzed: 05/22/23

Arsenic	39.7	0.200	mg/kg wet	40.0	99.3	80-120
Barium	36.4	0.400	"	40.0	91.0	80-120
Cadmium	1.84	0.200	"	2.00	91.9	80-120
Copper	41.1	0.400	"	40.0	103	80-120
Lead	18.1	0.200	"	20.0	90.4	80-120
Nickel	39.9	0.400	"	40.0	99.7	80-120
Selenium	4.29	0.260	"	4.00	107	80-120
Silver	1.88	0.0200	"	2.00	94.0	80-120
Zinc	39.0	0.400	"	40.0	97.4	80-120

Duplicate (BGE0658-DUP1)

Source: 2305288-21

Prepared: 05/18/23 Analyzed: 05/22/23

Arsenic	0.184	0.211	mg/kg dry	0.213	14.4	20
Barium	12.0	0.421	"	11.9	0.840	20
Cadmium	0.0156	0.211	"	0.0181	15.0	20
Copper	0.852	0.421	"	0.907	6.27	20
Lead	1.91	0.211	"	1.96	2.46	20
Nickel	0.405	0.421	"	0.465	13.7	20
Selenium	ND	0.274	"	ND		20
Silver	0.00379	0.0211	"	0.00547	36.4	20
Zinc	2.78	0.421	"	2.83	1.52	20

QR-01



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Project: Noble - Loustalet 64N64W 30

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 06/12/23 11:48

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 BGE0658 - EPA 3050B

Matrix Spike (BGE0658-MS1)	Source: 2305288-21			Prepared: 05/18/23 Analyzed: 05/22/23								
Arsenic	14.9	0.211	mg/kg dry	42.1	0.213	35.0	75-125					QM-05
Barium	52.5	0.421	"	42.1	11.9	96.3	75-125					
Cadmium	1.94	0.211	"	2.11	0.0181	91.2	75-125					
Copper	15.9	0.421	"	42.1	0.907	35.7	75-125					QM-05
Lead	19.5	0.211	"	21.1	1.96	83.2	75-125					
Nickel	15.5	0.421	"	42.1	0.465	35.7	75-125					QM-05
Selenium	3.92	0.274	"	4.21	ND	93.2	75-125					
Silver	1.93	0.0211	"	2.11	0.00547	91.2	75-125					
Zinc	18.0	0.421	"	42.1	2.83	36.0	75-125					QM-05

Matrix Spike Dup (BGE0658-MSD1)	Source: 2305288-21			Prepared: 05/18/23 Analyzed: 05/22/23								
Arsenic	14.7	0.211	mg/kg dry	42.1	0.213	34.4	75-125	1.65	25			QM-05
Barium	54.5	0.421	"	42.1	11.9	101	75-125	3.67	25			
Cadmium	1.94	0.211	"	2.11	0.0181	91.2	75-125	0.0435	25			
Copper	15.8	0.421	"	42.1	0.907	35.5	75-125	0.684	25			QM-05
Lead	20.0	0.211	"	21.1	1.96	85.7	75-125	2.61	25			
Nickel	15.5	0.421	"	42.1	0.465	35.8	75-125	0.255	25			QM-05
Selenium	4.44	0.274	"	4.21	ND	105	75-125	12.3	25			
Silver	1.96	0.0211	"	2.11	0.00547	92.9	75-125	1.78	25			
Zinc	18.0	0.421	"	42.1	2.83	36.0	75-125	0.0726	25			QM-05

Batch BGF0155 - EPA 3050B

Blank (BGF0155-BLK1)	Prepared: 06/05/23 Analyzed: 06/07/23											
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	"									
Selenium	ND	0.260	"									
Silver	ND	0.0200	"									
Zinc	ND	0.400	"									



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet 64N64W 30

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 06/12/23 11:48

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 BGF0155 - EPA 3050B

LCS (BGF0155-BS1)

Prepared: 06/05/23 Analyzed: 06/07/23

Arsenic	37.1	0.200	mg/kg wet	40.0		92.7	80-120			
Barium	39.7	0.400	"	40.0		99.3	80-120			
Cadmium	1.99	0.200	"	2.00		99.3	80-120			
Copper	37.8	0.400	"	40.0		94.6	80-120			
Lead	19.4	0.200	"	20.0		97.2	80-120			
Nickel	37.2	0.400	"	40.0		92.9	80-120			
Selenium	4.26	0.260	"	4.00		107	80-120			
Silver	2.00	0.0200	"	2.00		99.8	80-120			
Zinc	37.0	0.400	"	40.0		92.5	80-120			

Duplicate (BGF0155-DUP1)

Source: 2304650-01

Prepared: 06/05/23 Analyzed: 06/07/23

Arsenic	0.664	0.243	mg/kg dry		0.706			6.18	20	
Barium	47.3	0.486	"		72.3			41.7	20	QR-03
Cadmium	0.103	0.243	"		0.204			65.6	20	QR-01
Copper	2.92	0.486	"		6.57			77.1	20	QR-03
Lead	8.30	0.243	"		58.3			150	20	QR-03
Nickel	1.42	0.486	"		1.83			25.3	20	QR-03
Selenium	ND	0.316	"		ND				20	
Silver	0.0253	0.0243	"		0.0355			33.6	20	QR-03
Zinc	16.8	0.486	"		34.6			69.0	20	QR-03

Matrix Spike (BGF0155-MS1)

Source: 2304650-01

Prepared: 06/05/23 Analyzed: 06/07/23

Arsenic	15.7	0.243	mg/kg dry	48.6	0.706	30.7	75-125			QM-07
Barium	134	0.486	"	48.6	72.3	127	75-125			QM-07
Cadmium	2.75	0.243	"	2.43	0.204	105	75-125			
Copper	24.9	0.486	"	48.6	6.57	37.7	75-125			QM-07
Lead	298	0.243	"	24.3	58.3	985	75-125			QM-07
Nickel	17.0	0.486	"	48.6	1.83	31.2	75-125			QM-07
Selenium	4.58	0.316	"	4.86	ND	94.2	75-125			
Silver	2.46	0.0243	"	2.43	0.0355	99.6	75-125			
Zinc	57.8	0.486	"	48.6	34.6	47.8	75-125			QM-07

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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.



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 PO Box 1289
 Wellington CO, 80549

Project: Noble - Loustalet 64N64W 30

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
 06/12/23 11:48

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGF0155 - EPA 3050B

Matrix Spike Dup (BGF0155-MSD1)	Source: 2304650-01			Prepared: 06/05/23 Analyzed: 06/07/23							
Arsenic	15.8	0.243	mg/kg dry	48.6	0.706	31.0	75-125	0.903	25		QM-07
Barium	128	0.486	"	48.6	72.3	116	75-125	4.25	25		
Cadmium	2.63	0.243	"	2.43	0.204	99.8	75-125	4.41	25		
Copper	25.0	0.486	"	48.6	6.57	37.8	75-125	0.203	25		QM-07
Lead	289	0.243	"	24.3	58.3	947	75-125	3.13	25		QM-07
Nickel	17.1	0.486	"	48.6	1.83	31.3	75-125	0.314	25		QM-07
Selenium	4.50	0.316	"	4.86	ND	92.6	75-125	1.65	25		
Silver	2.38	0.0243	"	2.43	0.0355	96.3	75-125	3.32	25		
Zinc	57.5	0.486	"	48.6	34.6	47.2	75-125	0.482	25		QM-07



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Project: Noble - Loustalet 64N64W 30

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
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Hexavalent Chromium by EPA Method 7196 - Quality Control

Summit Scientific

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

Batch BGE0593 - 3060A Mod

Blank (BGE0593-BLK1)		Prepared & Analyzed: 05/17/23									
Chromium, Hexavalent	ND	0.30	mg/kg wet								
LCS (BGE0593-BS1)		Prepared & Analyzed: 05/17/23									
Chromium, Hexavalent	23.1	0.30	mg/kg wet	25.0	92.4	80-120					
Duplicate (BGE0593-DUP1)		Source: 2305360-01		Prepared & Analyzed: 05/17/23							
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND					20	
Matrix Spike (BGE0593-MS1)		Source: 2305360-01		Prepared & Analyzed: 05/17/23							
Chromium, Hexavalent	29.2	0.30	mg/kg dry	30.7	ND	95.2	75-125				
Matrix Spike Dup (BGE0593-MSD1)		Source: 2305360-01		Prepared & Analyzed: 05/17/23							
Chromium, Hexavalent	25.8	0.30	mg/kg dry	30.7	ND	84.2	75-125	12.3		20	

Batch BGF0260 - 3060A Mod

Blank (BGF0260-BLK1)		Prepared: 06/07/23 Analyzed: 06/08/23									
Chromium, Hexavalent	ND	0.30	mg/kg wet								
LCS (BGF0260-BS1)		Prepared: 06/07/23 Analyzed: 06/08/23									
Chromium, Hexavalent	23.4	0.30	mg/kg wet	25.0	93.6	80-120					
Duplicate (BGF0260-DUP1)		Source: 2305319-01		Prepared: 06/07/23 Analyzed: 06/08/23							
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND					20	
Matrix Spike (BGF0260-MS1)		Source: 2305319-01		Prepared: 06/07/23 Analyzed: 06/08/23							
Chromium, Hexavalent	33.4	0.30	mg/kg dry	32.2	ND	104	75-125				



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Project Number: [none]
 Project Manager: Paul Henehan

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Hexavalent Chromium by EPA Method 7196 - Quality Control

Summit Scientific

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

Batch BGF0260 - 3060A Mod

Matrix Spike Dup (BGF0260-MSD1)

Source: 2305319-01

Prepared: 06/07/23 Analyzed: 06/08/23

Chromium, Hexavalent	35.0	0.30	mg/kg dry	32.2	ND	109	75-125	4.52	20	
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Project: Noble - Loustalet 64N64W 30

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
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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 BGE0771 - General Preparation

Blank (BGE0771-BLK1)

Prepared: 05/22/23 Analyzed: 05/23/23

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

LCS (BGE0771-BS1)

Prepared: 05/22/23 Analyzed: 05/23/23

Calcium	5.47	0.0500	mg/L wet	5.00		109	70-130			
Magnesium	5.04	0.0500	"	5.00		101	70-130			
Sodium	5.19	0.0500	"	5.00		104	70-130			



Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Loustalet 64N64W 30 Project Number: [none] Project Manager: Paul Henehan	Reported: 06/12/23 11:48
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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 BGE0687 - General Preparation

Duplicate (BGE0687-DUP1)	Source: 2305374-01		Prepared & Analyzed: 05/19/23							
% Solids	93.0		%		93.3			0.327		20



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Project: Noble - Loustalet 64N64W 30

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control
Summit Scientific

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

Batch BGE0815 - General Preparation

Blank (BGE0815-BLK1)

Prepared & Analyzed: 05/23/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGE0815-BS1)

Prepared & Analyzed: 05/23/23

Specific Conductance (EC) 0.153 0.0100 mmhos/cm 0.150 102 95-105

Duplicate (BGE0815-DUP1)

Source: 2305374-01

Prepared & Analyzed: 05/23/23

Specific Conductance (EC) 0.695 0.0100 mmhos/cm 0.705 1.43 20



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Project: Noble - Loustalet 64N64W 30

Project Number: [none]
 Project Manager: Paul Henehan

Reported:
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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 BGE0813 - General Preparation

LCS (BGE0813-BS1)

Prepared & Analyzed: 05/23/23

pH	9.08		pH Units	9.18	98.9	95-105
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Duplicate (BGE0813-DUP1)

Source: 2305374-01

Prepared & Analyzed: 05/23/23

pH	6.52		pH Units	6.51	0.153	20
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PO Box 1289
Wellington CO, 80549

Project: Noble - Loustalet 64N64W 30

Project Number: [none]
Project Manager: Paul Henehan

Reported:
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Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- 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