

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 18, 2025

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Lower Latham Multi FL

Work Order #2501201

Enclosed are the results of analyses for samples received by Summit Scientific on 01/14/25 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Natalie Tessier". The signature is fluid and cursive, with the first name being more prominent.

Natalie Tessier For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
03/18/25 10:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2-8G, 1-32D, 2-22D FL02 3Ft (2)	2501201-01	Soil	01/14/25 08:50	01/14/25 16:30
2-8G, 1-32D, 2-22D FL05 3Ft (2)	2501201-02	Soil	01/14/25 09:00	01/14/25 16:30
02-01G Combi Trench 3Ft (2)/FL06	2501201-03	Soil	01/14/25 09:45	01/14/25 16:30
W FL Riser Combi Trench 3Ft (2)	2501201-04	Soil	01/14/25 08:12	01/14/25 16:30
E FL Riser Combi Trench 3Ft (2)	2501201-05	Soil	01/14/25 08:17	01/14/25 16:30

Summit Scientific

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Client: Fremont Environmental		Send Data To:		Send Invoice To:	
Address: 8305 6th St.		Project Manager:		Company: Chevron	
City/State/Zip: Wellington, CO		E-Mail: Chevron Dist. List, paulH, ethanB(@fremontenv.com)		Project Name/Location:	
Phone:		Project Name: Noble - Lower Latham Multi. FL		AFE#:	
Sampler Name: Ethan Black		Project Number: C024-060		PO/Billing Codes: UWRWE-A2455-ENV	
				Contact: Dan Peterson	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested										Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Full Table 915-1 (Soil)	Full Table 915-1 (GW)	NBTEX, TMBs	TPH (C6-C36)	PAHs	SAR, EC, pH, Boron	Table 915-1 Metals	TDS, Chloride, Sulfate	
1	2-8G, 1-32D, 2-22D FL02 3FT (2)	1/14/25	0850	2			X			X			X								
2	2-8G, 1-32D, 2-22D FL05 3FT (2)		0900	1																	
3	02-01G Combi Trench 3FT (2) / FLOG		0945	1																	
4	W FL Riser Combi Trench 3FT (2)		0812	1																	
5	E FL Riser Combi Trench 3FT (2)		0817	1																	
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by: <u>Ethan Black</u>	Date/Time: <u>1/14/25 1217</u>	Received by: <u>S2 North</u>	Date/Time: <u>1/14/25 1217</u>	TAT Business Days	Field DO	Notes: Dist. Report to parties displayed in the email line(s) only.
Relinquished by: <u>SL</u>	Date/Time: <u>1/14/25 1630</u>	Received by: <u>Dan Peterson</u>	Date/Time: <u>1/14/25 1630</u>	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: <u>C - C</u>	Corrected Temperature: <u>C</u>	IR gun #: <u>1</u>	HNO3 lot #: <u></u>			

S₂

Sample Receipt Checklist

S2 Work Order# 2501201Client: FremontClient Project ID: Noble-Lower Latham Multi FLShipped 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"/>
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Matrix (Check all that apply) Air ☐ Soil/Solid ☐ Water ☐ Other ☐Temp (°C) 6.0Thermometer # 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 24E</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"/>	
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.
AR
Custodian Printed Name

1/14/25
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
03/18/25 10:18

2-8G, 1-32D, 2-22D FL02 3Ft (2)
2501201-01 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/14/25 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIA1027	01/22/25	01/27/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/14/25 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0394	98.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0388	96.9 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/14/25 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIA1030	01/22/25	01/26/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/14/25 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.8	102 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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**2-8G, 1-32D, 2-22D FL02 3Ft (2)
2501201-01 (Soil)**

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PAH by EPA Method 8270D SIM

Date Sampled: **01/14/25 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA1060	01/23/25	01/29/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/14/25 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0266	79.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0251	75.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/14/25 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1265	02/22/25	03/05/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/14/25 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Lower Latham Multi FL
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**2-8G, 1-32D, 2-22D FL02 3Ft (2)
2501201-01 (Soil)**

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Total Metals by EPA 6020B

Arsenic	4.05	0.200	mg/kg dry	1	BIB1696	02/28/25	03/17/25	EPA 6020B
Barium	102	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.68	0.400	"	"	"	"	"	"
Lead	6.31	0.200	"	"	"	"	"	"
Nickel	3.45	0.400	"	"	"	"	"	"
Silver	0.0300	0.0200	"	"	"	"	"	"
Zinc	16.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/14/25 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0049	02/03/25	02/06/25	EPA 7196A	

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

Date Sampled: **01/14/25 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	93.4	0.0500	mg/L dry	1	BIB0297	02/06/25	02/13/25	EPA 6020B	
Magnesium	13.3	0.0500	"	"	"	"	"	"	
Sodium	34.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/14/25 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.877	0.00100	units	1	BIB0707	02/13/25	02/13/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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**2-8G, 1-32D, 2-22D FL02 3Ft (2)
2501201-01 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/14/25 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.8		%	1	BIB0037	02/03/25	02/04/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/14/25 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.678	0.0100	mmhos/cm	1	BIB0299	02/06/25	02/07/25	EPA 120.1	

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

Date Sampled: **01/14/25 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.87		pH Units	1	BIB0303	02/06/25	02/07/25	EPA 9045D	

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2-8G, 1-32D, 2-22D FL05 3Ft (2)
2501201-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/14/25 09:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BIA1027	01/22/25	01/27/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/14/25 09:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0420	105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0407	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	99.9 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/14/25 09:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BIA1030	01/22/25	01/26/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/14/25 09:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.0	95.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Manager: Paul Henchan

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**2-8G, 1-32D, 2-22D FL05 3Ft (2)
2501201-02 (Soil)**

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/14/25 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA1060	01/23/25	01/29/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/14/25 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0217	65.0 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0211	63.2 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/14/25 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1265	02/22/25	03/05/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/14/25 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Manager: Paul Henchan

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03/18/25 10:18

**2-8G, 1-32D, 2-22D FL05 3Ft (2)
2501201-02 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.88	0.200	mg/kg dry	1	BIB1696	02/28/25	03/17/25	EPA 6020B
Barium	94.1	0.400	"	"	"	"	"	"
Cadmium	0.235	0.200	"	"	"	"	"	"
Copper	5.20	0.400	"	"	"	"	"	"
Lead	8.86	0.200	"	"	"	"	"	"
Nickel	5.06	0.400	"	"	"	"	"	"
Silver	0.0253	0.0200	"	"	"	"	"	"
Zinc	24.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/14/25 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0049	02/03/25	02/06/25	EPA 7196A	

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

Date Sampled: **01/14/25 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	64.0	0.0500	mg/L dry	1	BIB0297	02/06/25	02/13/25	EPA 6020B	
Magnesium	16.2	0.0500	"	"	"	"	"	"	
Sodium	15.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/14/25 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.451	0.00100	units	1	BIB0707	02/13/25	02/13/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/14/25 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**2-8G, 1-32D, 2-22D FL05 3Ft (2)
2501201-02 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	93.3	%	1	BIB0037	02/03/25	02/04/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/14/25 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.483	0.0100	mmhos/cm	1	BIB0299	02/06/25	02/07/25	EPA 120.1	

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

Date Sampled: **01/14/25 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.74		pH Units	1	BIB0303	02/06/25	02/07/25	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
03/18/25 10:18

02-01G Combi Trench 3Ft (2)/FL06
2501201-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/14/25 09:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BIA1027	01/22/25	01/27/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/14/25 09:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0405	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0412	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/14/25 09:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BIA1030	01/22/25	01/28/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/14/25 09:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.6	85.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
03/18/25 10:18

02-01G Combi Trench 3Ft (2)/FL06
2501201-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/14/25 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA1060	01/23/25	01/29/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/14/25 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0269	80.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0235	70.5 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/14/25 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1265	02/22/25	03/05/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/14/25 09:45**

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

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
03/18/25 10:18

**02-01G Combi Trench 3Ft (2)/FL06
2501201-03 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.46	0.200	mg/kg dry	1	BIB1696	02/28/25	03/17/25	EPA 6020B
Barium	161	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	4.71	0.400	"	"	"	"	"	"
Lead	7.04	0.200	"	"	"	"	"	"
Nickel	4.49	0.400	"	"	"	"	"	"
Silver	0.0234	0.0200	"	"	"	"	"	"
Zinc	20.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/14/25 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0049	02/03/25	02/06/25	EPA 7196A	

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

Date Sampled: **01/14/25 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	82.6	0.0500	mg/L dry	1	BIB0297	02/06/25	02/13/25	EPA 6020B	
Magnesium	3.38	0.0500	"	"	"	"	"	"	
Sodium	25.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/14/25 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.751	0.00100	units	1	BIB0707	02/13/25	02/13/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
03/18/25 10:18

**02-01G Combi Trench 3Ft (2)/FL06
2501201-03 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/14/25 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.4		%	1	BIB0037	02/03/25	02/04/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/14/25 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.193	0.0100	mmhos/cm	1	BIB0299	02/06/25	02/07/25	EPA 120.1	

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

Date Sampled: **01/14/25 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.92		pH Units	1	BIB0303	02/06/25	02/07/25	EPA 9045D	

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PO Box 1289
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Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
03/18/25 10:18

W FL Riser Combi Trench 3Ft (2)
2501201-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/14/25 08:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BIA1027	01/22/25	01/27/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/14/25 08:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0397	99.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0392	98.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/14/25 08:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BIA1030	01/22/25	01/28/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/14/25 08:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.4	82.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
03/18/25 10:18

W FL Riser Combi Trench 3Ft (2)
2501201-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/14/25 08:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA1060	01/23/25	01/29/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/14/25 08:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0245	73.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0238	71.3 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/14/25 08:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1265	02/22/25	03/05/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/14/25 08:12**

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

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
03/18/25 10:18

W FL Riser Combi Trench 3Ft (2)
2501201-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.80	0.200	mg/kg dry	1	BIB1696	02/28/25	03/17/25	EPA 6020B
Barium	215	0.400	"	"	"	"	"	"
Cadmium	0.281	0.200	"	"	"	"	"	"
Copper	6.18	0.400	"	"	"	"	"	"
Lead	8.36	0.200	"	"	"	"	"	"
Nickel	4.94	0.400	"	"	"	"	"	"
Silver	0.0448	0.0200	"	"	"	"	"	"
Zinc	25.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/14/25 08:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0049	02/03/25	02/06/25	EPA 7196A	

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

Date Sampled: **01/14/25 08:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	28.9	0.0500	mg/L dry	1	BIB0297	02/06/25	02/13/25	EPA 6020B	
Magnesium	3.16	0.0500	"	"	"	"	"	"	
Sodium	6.11	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/14/25 08:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.288	0.00100	units	1	BIB0707	02/13/25	02/13/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/14/25 08:12**

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

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
03/18/25 10:18

W FL Riser Combi Trench 3Ft (2)
2501201-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	92.2	%	1	BIB0037	02/03/25	02/04/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/14/25 08:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.162	0.0100	mmhos/cm	1	BIB0299	02/06/25	02/07/25	EPA 120.1	

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

Date Sampled: **01/14/25 08:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.70		pH Units	1	BIB0303	02/06/25	02/07/25	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
03/18/25 10:18

E FL Riser Combi Trench 3Ft (2)
2501201-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/14/25 08:17**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BIA1027	01/22/25	01/27/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/14/25 08:17**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0414	103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0387	96.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/14/25 08:17**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BIA1030	01/22/25	01/26/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/14/25 08:17**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.0	80.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
03/18/25 10:18

E FL Riser Combi Trench 3Ft (2)
2501201-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/14/25 08:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA1060	01/23/25	01/29/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/14/25 08:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0265	79.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0307	92.2 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/14/25 08:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB1265	02/22/25	03/05/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/14/25 08:17**

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

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
03/18/25 10:18

E FL Riser Combi Trench 3Ft (2)
2501201-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.81	0.200	mg/kg dry	1	BIB1696	02/28/25	03/17/25	EPA 6020B
Barium	154	0.400	"	"	"	"	"	"
Cadmium	0.247	0.200	"	"	"	"	"	"
Copper	5.17	0.400	"	"	"	"	"	"
Lead	7.72	0.200	"	"	"	"	"	"
Nickel	4.88	0.400	"	"	"	"	"	"
Silver	0.0260	0.0200	"	"	"	"	"	"
Zinc	20.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/14/25 08:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB0049	02/03/25	02/06/25	EPA 7196A	

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

Date Sampled: **01/14/25 08:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	38.4	0.0500	mg/L dry	1	BIB0297	02/06/25	02/13/25	EPA 6020B	
Magnesium	3.34	0.0500	"	"	"	"	"	"	
Sodium	2.97	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/14/25 08:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.123	0.00100	units	1	BIB0707	02/13/25	02/13/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/14/25 08:17**

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

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
03/18/25 10:18

E FL Riser Combi Trench 3Ft (2)
2501201-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	92.3	%	1	BIB0037	02/03/25	02/04/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/14/25 08:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.142	0.0100	mmhos/cm	1	BIB0299	02/06/25	02/07/25	EPA 120.1	

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

Date Sampled: **01/14/25 08:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.58		pH Units	1	BIB0303	02/06/25	02/07/25	EPA 9045D	

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Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
03/18/25 10:18

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 BIA1027 - EPA 5030 Soil MS

Blank (BIA1027-BLK1)

Prepared: 01/22/25 Analyzed: 01/26/25

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0403		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0406		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.4	50-150			

LCS (BIA1027-BS1)

Prepared: 01/22/25 Analyzed: 01/26/25

Benzene	0.0999	0.0020	mg/kg	0.100		99.9	70-130			
Toluene	0.0970	0.0050	"	0.100		97.0	70-130			
Ethylbenzene	0.0963	0.0050	"	0.100		96.3	70-130			
m,p-Xylene	0.197	0.010	"	0.200		98.3	70-130			
o-Xylene	0.100	0.0050	"	0.100		100	70-130			
1,2,4-Trimethylbenzene	0.0984	0.0050	"	0.100		98.4	70-130			
1,3,5-Trimethylbenzene	0.0967	0.0050	"	0.100		96.7	70-130			
Naphthalene	0.0965	0.0038	"	0.100		96.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0404		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0402		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0409		"	0.0400		102	50-150			

Matrix Spike (BIA1027-MS1)

Source: 2501194-01

Prepared: 01/22/25 Analyzed: 01/26/25

Benzene	0.0947	0.0020	mg/kg	0.100	ND	94.7	70-130			
Toluene	0.0908	0.0050	"	0.100	ND	90.8	70-130			
Ethylbenzene	0.0802	0.0050	"	0.100	ND	80.2	70-130			
m,p-Xylene	0.186	0.010	"	0.200	ND	92.9	70-130			
o-Xylene	0.0951	0.0050	"	0.100	ND	95.1	70-130			
1,2,4-Trimethylbenzene	0.0890	0.0050	"	0.100	ND	89.0	70-130			
1,3,5-Trimethylbenzene	0.0872	0.0050	"	0.100	ND	87.2	70-130			
Naphthalene	0.0967	0.0038	"	0.100	ND	96.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0405		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0401		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	50-150			

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Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
03/18/25 10:18

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 BIA1027 - EPA 5030 Soil MS

Matrix Spike Dup (BIA1027-MSD1)	Source: 2501194-01			Prepared: 01/22/25 Analyzed: 01/26/25						
Benzene	0.0950	0.0020	mg/kg	0.100	ND	95.0	70-130	0.348	30	
Toluene	0.0881	0.0050	"	0.100	ND	88.1	70-130	2.99	30	
Ethylbenzene	0.0820	0.0050	"	0.100	ND	82.0	70-130	2.15	30	
m,p-Xylene	0.173	0.010	"	0.200	ND	86.4	70-130	7.28	30	
o-Xylene	0.0879	0.0050	"	0.100	ND	87.9	70-130	7.83	30	
1,2,4-Trimethylbenzene	0.0818	0.0050	"	0.100	ND	81.8	70-130	8.43	30	
1,3,5-Trimethylbenzene	0.0799	0.0050	"	0.100	ND	79.9	70-130	8.76	30	
Naphthalene	0.0905	0.0038	"	0.100	ND	90.5	70-130	6.60	30	
Surrogate: 1,2-Dichloroethane-d4	0.0421		"	0.0400		105	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	50-150			

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Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
03/18/25 10:18

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BIA1030 - EPA 3550A

Blank (BIA1030-BLK1)

Prepared: 01/22/25 Analyzed: 01/26/25

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	12.9		"	12.5	103		30-150			

LCS (BIA1030-BS1)

Prepared: 01/22/25 Analyzed: 01/26/25

C10-C28 (DRO)	572	50	mg/kg	500	114		70-130			
Surrogate: o-Terphenyl	14.2		"	12.5	114		30-150			

Matrix Spike (BIA1030-MS1)

Source: 2501194-01

Prepared: 01/22/25 Analyzed: 01/26/25

C10-C28 (DRO)	677	50	mg/kg	500	123	111	70-130			
Surrogate: o-Terphenyl	13.4		"	12.5	107		30-150			

Matrix Spike Dup (BIA1030-MSD1)

Source: 2501194-01

Prepared: 01/22/25 Analyzed: 01/26/25

C10-C28 (DRO)	879	50	mg/kg	500	123	151	70-130	26.0	20	QM-05
Surrogate: o-Terphenyl	14.4		"	12.5	115		30-150			

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Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
03/18/25 10:18

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BIA1060 - EPA 5030 Soil MS

Blank (BIA1060-BLK1)

Prepared: 01/23/25 Analyzed: 01/28/25

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0196		"	0.0333		58.8	40-140			
Surrogate: Fluoranthene-d10	0.0206		"	0.0333		61.8	40-140			

LCS (BIA1060-BS1)

Prepared: 01/23/25 Analyzed: 01/28/25

Acenaphthene	0.0196	0.00500	mg/kg	0.0333		58.7	40-140			
Anthracene	0.0182	0.00500	"	0.0333		54.7	40-140			
Benzo (a) anthracene	0.0212	0.00500	"	0.0333		63.5	40-140			
Benzo (a) pyrene	0.0183	0.00500	"	0.0333		55.0	40-140			
Benzo (b) fluoranthene	0.0193	0.00500	"	0.0333		57.9	40-140			
Benzo (k) fluoranthene	0.0205	0.00500	"	0.0333		61.6	40-140			
Chrysene	0.0212	0.00500	"	0.0333		63.6	40-140			
Dibenz (a,h) anthracene	0.0162	0.00500	"	0.0333		48.6	40-140			
Fluoranthene	0.0216	0.00500	"	0.0333		64.9	40-140			
Fluorene	0.0190	0.00500	"	0.0333		56.9	40-140			
Indeno (1,2,3-cd) pyrene	0.0158	0.00500	"	0.0333		47.4	40-140			
Pyrene	0.0218	0.00500	"	0.0333		65.5	40-140			
1-Methylnaphthalene	0.0212	0.00500	"	0.0333		63.5	40-140			
2-Methylnaphthalene	0.0215	0.00500	"	0.0333		64.4	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0205		"	0.0333		61.6	40-140			
Surrogate: Fluoranthene-d10	0.0205		"	0.0333		61.4	40-140			

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Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
03/18/25 10:18

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BIA1060 - EPA 5030 Soil MS

Matrix Spike (BIA1060-MS1)		Source: 2501193-01			Prepared: 01/23/25 Analyzed: 01/28/25						
Acenaphthene	0.0260	0.00500	mg/kg	0.0333	ND	77.9	40-140				
Anthracene	0.0263	0.00500	"	0.0333	ND	78.8	40-140				
Benzo (a) anthracene	0.0288	0.00500	"	0.0333	ND	86.4	40-140				
Benzo (a) pyrene	0.0249	0.00500	"	0.0333	ND	74.8	40-140				
Benzo (b) fluoranthene	0.0240	0.00500	"	0.0333	ND	72.1	40-140				
Benzo (k) fluoranthene	0.0247	0.00500	"	0.0333	ND	74.2	40-140				
Chrysene	0.0276	0.00500	"	0.0333	ND	82.8	40-140				
Dibenz (a,h) anthracene	0.0217	0.00500	"	0.0333	ND	65.2	40-140				
Fluoranthene	0.0275	0.00500	"	0.0333	ND	82.4	40-140				
Fluorene	0.0259	0.00500	"	0.0333	ND	77.7	40-140				
Indeno (1,2,3-cd) pyrene	0.0245	0.00500	"	0.0333	ND	73.4	40-140				
Pyrene	0.0280	0.00500	"	0.0333	ND	84.0	40-140				
1-Methylnaphthalene	0.0251	0.00500	"	0.0333	ND	75.3	40-140				
2-Methylnaphthalene	0.0251	0.00500	"	0.0333	ND	75.4	40-140				
Surrogate: 2-Methylnaphthalene-d10	0.0253		"	0.0333		76.0	40-140				
Surrogate: Fluoranthene-d10	0.0277		"	0.0333		83.2	40-140				

Matrix Spike Dup (BIA1060-MSD1)		Source: 2501193-01			Prepared: 01/23/25 Analyzed: 01/28/25						
Acenaphthene	0.0213	0.00500	mg/kg	0.0333	ND	63.8	40-140	19.9	30		
Anthracene	0.0211	0.00500	"	0.0333	ND	63.3	40-140	21.8	30		
Benzo (a) anthracene	0.0241	0.00500	"	0.0333	ND	72.4	40-140	17.7	30		
Benzo (a) pyrene	0.0218	0.00500	"	0.0333	ND	65.5	40-140	13.3	30		
Benzo (b) fluoranthene	0.0214	0.00500	"	0.0333	ND	64.3	40-140	11.4	30		
Benzo (k) fluoranthene	0.0212	0.00500	"	0.0333	ND	63.6	40-140	15.3	30		
Chrysene	0.0224	0.00500	"	0.0333	ND	67.3	40-140	20.7	30		
Dibenz (a,h) anthracene	0.0178	0.00500	"	0.0333	ND	53.4	40-140	19.9	30		
Fluoranthene	0.0226	0.00500	"	0.0333	ND	67.8	40-140	19.5	30		
Fluorene	0.0250	0.00500	"	0.0333	ND	74.9	40-140	3.61	30		
Indeno (1,2,3-cd) pyrene	0.0197	0.00500	"	0.0333	ND	59.2	40-140	21.5	30		
Pyrene	0.0217	0.00500	"	0.0333	ND	65.0	40-140	25.4	30		
1-Methylnaphthalene	0.0235	0.00500	"	0.0333	ND	70.4	40-140	6.72	30		
2-Methylnaphthalene	0.0228	0.00500	"	0.0333	ND	68.3	40-140	9.78	30		
Surrogate: 2-Methylnaphthalene-d10	0.0228		"	0.0333		68.4	40-140				
Surrogate: Fluoranthene-d10	0.0225		"	0.0333		67.5	40-140				

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Fremont Environmental
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Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
03/18/25 10:18

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

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

Batch BIB1265 - EPA 3050B

Blank (BIB1265-BLK1)

Prepared: 02/22/25 Analyzed: 03/05/25

Boron ND 2.00 mg/L

LCS (BIB1265-BS1)

Prepared: 02/22/25 Analyzed: 03/05/25

Boron 4.67 2.00 mg/L 5.00 93.3 80-120

Duplicate (BIB1265-DUP1)

Source: 2501196-21

Prepared: 02/22/25 Analyzed: 03/05/25

Boron 0.143 2.00 mg/L 0.150 4.92 20

Matrix Spike (BIB1265-MS1)

Source: 2501196-21

Prepared: 02/22/25 Analyzed: 03/05/25

Boron 4.91 2.00 mg/L 5.02 0.150 94.9 75-125

Matrix Spike Dup (BIB1265-MSD1)

Source: 2501196-21

Prepared: 02/22/25 Analyzed: 03/05/25

Boron 4.87 2.00 mg/L 5.02 0.150 94.1 75-125 0.847 25

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Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
03/18/25 10:18

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BIB1696 - EPA 3050B

Blank (BIB1696-BLK1)

Prepared: 02/28/25 Analyzed: 03/17/25

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

LCS (BIB1696-BS1)

Prepared: 02/28/25 Analyzed: 03/17/25

Arsenic	41.0	0.200	mg/kg wet	41.0	99.9	80-120
Barium	44.3	0.400	"	41.0	108	80-120
Cadmium	2.05	0.200	"	2.05	100	80-120
Copper	44.4	0.400	"	41.0	108	80-120
Lead	20.4	0.200	"	20.5	99.7	80-120
Nickel	44.0	0.400	"	41.0	107	80-120
Silver	2.06	0.0200	"	2.05	100	80-120
Zinc	42.9	0.400	"	41.0	105	80-120
Selenium	3.77	0.260	"	4.10	92.1	80-120

Duplicate (BIB1696-DUP1)

Source: 2501196-20

Prepared: 02/28/25 Analyzed: 03/17/25

Arsenic	3.55	0.200	mg/kg dry	3.82	7.33	20
Barium	103	0.400	"	98.5	4.61	20
Cadmium	0.301	0.200	"	0.276	8.48	20
Copper	8.09	0.400	"	8.13	0.462	20
Lead	9.42	0.200	"	9.39	0.373	20
Nickel	8.25	0.400	"	8.20	0.607	20
Silver	0.0560	0.0200	"	0.0563	0.606	20
Zinc	27.4	0.400	"	30.5	10.6	20
Selenium	0.239	0.260	"	0.272	13.0	20

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Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
03/18/25 10:18

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BIB1696 - EPA 3050B

Matrix Spike (BIB1696-MS1)		Source: 2501196-20			Prepared: 02/28/25 Analyzed: 03/17/25					
Arsenic	53.9	0.200	mg/kg dry	50.2	3.82	99.9	75-125			
Barium	165	0.400	"	50.2	98.5	132	75-125			QM-05
Cadmium	2.76	0.200	"	2.51	0.276	99.2	75-125			
Copper	41.5	0.400	"	50.2	8.13	66.6	75-125			QM-05
Lead	32.4	0.200	"	25.1	9.39	91.8	75-125			
Nickel	41.6	0.400	"	50.2	8.20	66.5	75-125			QM-05
Silver	2.55	0.0200	"	2.51	0.0563	99.4	75-125			
Zinc	59.0	0.400	"	50.2	30.5	56.9	75-125			QM-05
Selenium	4.32	0.260	"	5.02	0.272	80.6	75-125			

Matrix Spike Dup (BIB1696-MSD1)		Source: 2501196-20			Prepared: 02/28/25 Analyzed: 03/17/25					
Arsenic	51.8	0.200	mg/kg dry	51.0	3.82	94.1	75-125	4.05	25	
Barium	146	0.400	"	51.0	98.5	93.0	75-125	12.1	25	
Cadmium	2.83	0.200	"	2.55	0.276	100	75-125	2.49	25	
Copper	40.2	0.400	"	51.0	8.13	62.8	75-125	3.35	25	QM-05
Lead	33.9	0.200	"	25.5	9.39	96.3	75-125	4.59	25	
Nickel	40.2	0.400	"	51.0	8.20	62.7	75-125	3.49	25	QM-05
Silver	2.52	0.0200	"	2.55	0.0563	96.7	75-125	1.17	25	
Zinc	58.9	0.400	"	51.0	30.5	55.8	75-125	0.195	25	QM-05
Selenium	4.12	0.260	"	5.10	0.272	75.4	75-125	4.75	25	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
03/18/25 10:18

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BIB0049 - 3060A Mod

Blank (BIB0049-BLK1)

Prepared: 02/03/25 Analyzed: 02/06/25

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BIB0049-BS1)

Prepared: 02/03/25 Analyzed: 02/06/25

Chromium, Hexavalent 24.5 0.30 mg/kg wet 25.0 98.0 80-120

Duplicate (BIB0049-DUP1)

Source: 2501201-01

Prepared: 02/03/25 Analyzed: 02/06/25

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BIB0049-MS1)

Source: 2501201-01

Prepared: 02/03/25 Analyzed: 02/06/25

Chromium, Hexavalent 21.3 0.30 mg/kg dry 26.7 ND 80.0 75-125

Matrix Spike Dup (BIB0049-MSD1)

Source: 2501201-01

Prepared: 02/03/25 Analyzed: 02/06/25

Chromium, Hexavalent 25.9 0.30 mg/kg dry 26.7 ND 97.0 75-125 19.2 20

Summit Scientific

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Wellington CO, 80549

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
03/18/25 10:18

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

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

Batch BIB0297 - General Preparation

Blank (BIB0297-BLK1)

Prepared: 02/06/25 Analyzed: 02/13/25

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

LCS (BIB0297-BS1)

Prepared: 02/06/25 Analyzed: 02/13/25

Calcium	5.78	0.0500	mg/L wet	5.00	116	70-130
Magnesium	5.24	0.0500	"	5.00	105	70-130
Sodium	4.86	0.0500	"	5.00	97.2	70-130

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
03/18/25 10:18

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

Summit Scientific

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

Batch BIB0037 - General Preparation

Duplicate (BIB0037-DUP1)		Source: 2501199-01			Prepared: 02/03/25 Analyzed: 02/04/25					
% Solids	92.2		%		91.5			0.772	20	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
03/18/25 10:18

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

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

Batch BIB0299 - General Preparation

Blank (BIB0299-BLK1)

Prepared: 02/06/25 Analyzed: 02/07/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BIB0299-BS1)

Prepared: 02/06/25 Analyzed: 02/07/25

Specific Conductance (EC) 1.37 0.0100 mmhos/cm 1.41 97.0 95-105

Duplicate (BIB0299-DUP1)

Source: 2501201-01

Prepared: 02/06/25 Analyzed: 02/07/25

Specific Conductance (EC) 0.677 0.0100 mmhos/cm 0.678 0.285 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
03/18/25 10:18

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

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

Batch BIB0303 - General Preparation

LCS (BIB0303-BS1)

Prepared: 02/06/25 Analyzed: 02/07/25

pH	9.22	pH Units	9.18	100	95-105
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Duplicate (BIB0303-DUP1)

Source: 2501201-01

Prepared: 02/06/25 Analyzed: 02/07/25

pH	7.82	pH Units	7.87	0.707	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
03/18/25 10:18

Notes and Definitions

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference