

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 03, 2024

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549

RE: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Work Order #2405139

Enclosed are the results of analyses for samples received by Summit Scientific on 05/09/24 08:39. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Natalie Tessier For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01@6.0"	2405139-01	Soil	05/03/24 00:00	05/09/24 08:39
AST02@6.0"	2405139-02	Soil	05/03/24 00:00	05/09/24 08:39
AST03@6.0"	2405139-03	Soil	05/03/24 00:00	05/09/24 08:39
AST04@6.0"	2405139-04	Soil	05/03/24 00:00	05/09/24 08:39
SEP01@5.0'	2405139-05	Soil	05/03/24 00:00	05/09/24 08:39
SEP02@5.0'	2405139-06	Soil	05/03/24 00:00	05/09/24 08:39
SEP03@5.0'	2405139-07	Soil	05/03/24 00:00	05/09/24 08:39
SEP04@5.0'	2405139-08	Soil	05/03/24 00:00	05/09/24 08:39
PWB01@5.0'	2405139-09	Soil	05/03/24 00:00	05/09/24 08:39
PWE01@4.0'	2405139-10	Soil	05/03/24 00:00	05/09/24 08:39

Summit Scientific

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# SUMMIT SCIENTIFIC

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

Lab ID	Page <u>1</u> of <u>1</u>
2405739	

Client: <u>Fremont Env</u>		Send Data To: Project Manager: <u>Paul Henehan</u>		Send Invoice To: Company: <u>Nade</u>	
Address:		E-Mail: <u>Paulh@fremontenv.com</u>		Project Name/Location:	
City/State/Zip:		<u>jeff@fremontenv.com Ethenb@fremontenv.com</u>		AFE#:	
Phone:		Project Name: <u>Ewings Robert Fed T4N-R66W-314 Lot</u>		PO/Billing Codes: <u>UWRWE-A3000-ABN</u>	
Sampler Name: <u>JG</u>		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	TMS(915)	DRO,ORO,GRO	PAHs(915)		EC,PH,SAR, Pb,Zn
1	AST01@6.0"	5/31/24		2			X			X			X	X	X	X	X	
2	AST02@6.0"	↓		↓			↓			↓			↓	↓	↓	↓	↓	
3	AST03@6.0"	↓		↓			↓			↓			↓	↓	↓	↓	↓	
4	AST04@6.0"	↓		↓			↓			↓			↓	↓	↓	↓	↓	
5	SEP01@5.0'	↓		↓			↓			↓			↓	↓	↓	↓	↓	
6	SEP02@5.0'	↓		↓			↓			↓			↓	↓	↓	↓	↓	
7	SEP03@5.0'	↓		↓			↓			↓			↓	↓	↓	↓	↓	
8	SEP04@5.0'	↓		↓			↓			↓			↓	↓	↓	↓	↓	
9	PWV01@5.0'	↓		↓			↓			↓			↓	↓	↓	↓	↓	
10	PWV01@4.0'	↓		↓			↓			↓			↓	↓	↓	↓	↓	
11																		
12																		
13																		
14																		
15																		

Relinquished by: <u>[Signature]</u>	Date/Time: <u>5/9/24 8:59</u>	Received by: <u>[Signature]</u>	Date/Time: <u>5/9/24 8:39</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: <u>14.6</u>	Corrected Temperature: _____	IR gun #: <u>2</u>	HNO3 lot #: _____	Standard	<input checked="" type="checkbox"/> Field Turb.	

# S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2405139Client: Fremont Client Project ID: Ewing Robert Fed T4N-R66W-S14  
LO1

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

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Matrix (Check all that apply) Air  Soil/Solid  Water  Other Temp (°C) 14.6 Thermometer # 2

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

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

Jh Wild  
Custodian Printed Name

5/9/24 8:39  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**AST01@6.0"**  
**2405139-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHE0340	05/10/24	05/11/24	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: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0382	95.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0391	97.8 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHE0342	05/10/24	05/10/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.44	59.5 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/03/24 13:42

**AST01@6.0"**  
**2405139-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHE0329	05/10/24	05/11/24	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: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0284	85.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0264	79.2 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHE0352	05/10/24	06/05/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **05/03/24 00:00**

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 - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**AST01@6.0"**  
**2405139-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.84	0.200	mg/kg dry	1	BHE0363	05/10/24	05/22/24	EPA 6020B	
Barium	79.8	0.400	"	"	"	"	"	"	
Cadmium	0.374	0.200	"	"	"	"	"	"	
Copper	13.7	0.400	"	"	"	"	"	"	
Nickel	8.07	0.400	"	"	"	"	"	"	
Silver	0.131	0.0200	"	"	"	"	"	"	
Zinc	52.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0351	05/10/24	05/10/24	EPA 7196A	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	167	0.0500	mg/L dry	1	BHE0324	05/09/24	05/14/24	EPA 6020B	
Magnesium	5.10	0.0500	"	"	"	"	"	"	
Sodium	6.35	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.132	0.00100	units	1	BHE0457	05/14/24	05/14/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.6		%	1	BHE0281	05/10/24	05/10/24	Calculation	

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Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/03/24 13:42

**AST01@6.0"**  
**2405139-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.0994</b>	0.0100	mmhos/cm	1	BHE0326	05/09/24	05/13/24	EPA 120.1	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>7.53</b>		pH Units	1	BHE0325	05/09/24	05/13/24	EPA 9045D	

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Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/03/24 13:42

**AST01@6.0"**  
**2405139-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Lead	12.4	0.200	mg/kg dry	1	BHF0395	06/13/24	06/17/24	EPA 6020B	

Summit Scientific

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**AST02@6.0"**  
**2405139-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHE0340	05/10/24	05/11/24	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: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0378	94.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0382	95.6 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHE0342	05/10/24	05/10/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	6.82	54.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**AST02@6.0"**  
**2405139-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHE0329	05/10/24	05/11/24	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: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0286	85.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0301	90.3 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHE0352	05/10/24	06/05/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **05/03/24 00:00**

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 - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**AST02@6.0"**  
**2405139-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.52	0.200	mg/kg dry	1	BHE0363	05/10/24	05/22/24	EPA 6020B
Barium	79.4	0.400	"	"	"	"	"	"
Cadmium	0.333	0.200	"	"	"	"	"	"
Copper	13.6	0.400	"	"	"	"	"	"
Lead	13.4	0.200	"	"	"	"	"	"
Nickel	8.10	0.400	"	"	"	"	"	"
Silver	0.143	0.0200	"	"	"	"	"	"
Zinc	49.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0351	05/10/24	05/10/24	EPA 7196A	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	67.0	0.0500	mg/L dry	1	BHE0324	05/09/24	05/14/24	EPA 6020B	
Magnesium	3.62	0.0500	"	"	"	"	"	"	
Sodium	59.6	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.92	0.00100	units	1	BHE0457	05/14/24	05/14/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/03/24 00:00**

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 - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/03/24 13:42

**AST02@6.0"**  
**2405139-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

<b>% Solids</b>	<b>86.2</b>	%	1	BHE0281	05/10/24	05/10/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.413</b>	0.0100	mmhos/cm	1	BHE0326	05/09/24	05/13/24	EPA 120.1	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>7.43</b>		pH Units	1	BHE0325	05/09/24	05/13/24	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**AST03@6.0"**  
**2405139-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHE0340	05/10/24	05/11/24	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: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0377	94.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0381	95.2 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHE0342	05/10/24	05/10/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.21	57.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**AST03@6.0"**  
**2405139-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHE0329	05/10/24	05/11/24	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: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0239	71.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0199	59.7 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHE0352	05/10/24	06/05/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **05/03/24 00:00**

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 - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**AST03@6.0"**  
**2405139-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.48	0.200	mg/kg dry	1	BHE0363	05/10/24	05/17/24	EPA 6020B
Cadmium	0.278	0.200	"	"	"	"	"	"
Copper	6.26	0.400	"	"	"	"	"	"
Lead	13.8	0.200	"	"	"	"	"	"
Nickel	2.80	0.400	"	"	"	"	"	"
Silver	0.151	0.0200	"	"	"	"	"	"
Zinc	44.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0351	05/10/24	05/10/24	EPA 7196A	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	136	0.0500	mg/L dry	1	BHE0324	05/09/24	05/14/24	EPA 6020B	
Magnesium	4.73	0.0500	"	"	"	"	"	"	
Sodium	10.2	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.234	0.00100	units	1	BHE0457	05/14/24	05/14/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.7		%	1	BHE0281	05/10/24	05/10/24	Calculation	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/03/24 13:42

**AST03@6.0"**  
**2405139-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	<b>0.200</b>	0.0100		mmhos/cm	1	BHE0326	05/09/24	05/13/24	EPA 120.1	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/03/24 13:42

**AST03@6.0"**  
**2405139-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Barium</b>	<b>90.8</b>	0.400	mg/kg dry	1	BHF0395	06/13/24	06/17/24	EPA 6020B	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.32</b>		pH Units	1	BHF0313	05/09/24	06/12/24	EPA 9045D	I-04

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**AST04@6.0"**  
**2405139-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHE0340	05/10/24	05/11/24	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: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0385	96.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0407	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0378	94.6 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHE0342	05/10/24	05/10/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.21	65.7 %	30-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**AST04@6.0"**  
**2405139-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHE0352	05/10/24	06/05/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.51	0.181		mg/kg dry	1	BHE0363	05/10/24	05/17/24	EPA 6020B	
Barium	62.0	0.362		"	"	"	"	"	"	
Cadmium	0.197	0.181		"	"	"	"	"	"	
Copper	4.74	0.362		"	"	"	"	"	"	
Lead	8.52	0.181		"	"	"	"	"	"	
Nickel	2.57	0.362		"	"	"	"	"	"	
Silver	0.0714	0.0181		"	"	"	"	"	"	
Zinc	29.5	0.362		"	"	"	"	"	"	
Selenium	ND	0.236		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHE0351	05/10/24	05/10/24	EPA 7196A	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	38.8	0.0500		mg/L dry	1	BHE0324	05/09/24	05/14/24	EPA 6020B	
Magnesium	3.81	0.0500		"	"	"	"	"	"	
Sodium	1.07	0.0500		"	"	"	"	"	"	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/03/24 13:42

**AST04@6.0"**  
**2405139-04 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0439	0.00100	units	1	BHE0457	05/14/24	05/14/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.8		%	1	BHE0281	05/10/24	05/10/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.164	0.0100	mmhos/cm	1	BHE0326	05/09/24	05/13/24	EPA 120.1	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.00		pH Units	1	BHE0325	05/09/24	05/13/24	EPA 9045D	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/03/24 13:42

**AST04@6.0"**  
**2405139-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

**I-04, O-04, O-05**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Acenaphthene	ND	0.00500	mg/kg	1	BHF0279	06/11/24	06/11/24	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: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10	0.0160	47.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0193	58.0 %	40-150		"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**SEP01@5.0'**  
**2405139-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHE0340	05/10/24	05/11/24	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: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0371	92.8 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0382	95.5 %	50-150	"	"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHE0342	05/10/24	05/10/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	9.11	72.9 %	30-150	"	"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
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Wellington CO, 80549

Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**SEP01@5.0'**  
**2405139-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHE0329	05/10/24	05/11/24	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: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0198	59.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0216	64.8 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHE0352	05/10/24	06/05/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **05/03/24 00:00**

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 - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**SEP01@5.0'**  
**2405139-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.66	0.200	mg/kg dry	1	BHE0363	05/10/24	05/17/24	EPA 6020B
Barium	71.5	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.94	0.400	"	"	"	"	"	"
Lead	8.53	0.200	"	"	"	"	"	"
Nickel	2.97	0.400	"	"	"	"	"	"
Silver	0.0556	0.0200	"	"	"	"	"	"
Zinc	29.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0351	05/10/24	05/10/24	EPA 7196A	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	34.1	0.0500	mg/L dry	1	BHE0324	05/09/24	05/14/24	EPA 6020B	
Magnesium	4.84	0.0500	"	"	"	"	"	"	
Sodium	10.9	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.463	0.00100	units	1	BHE0457	05/14/24	05/14/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/03/24 13:42

**SEP01@5.0'**  
**2405139-05 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	91.2			%	1	BHE0281	05/10/24	05/10/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.267	0.0100		mmhos/cm	1	BHE0326	05/09/24	05/13/24	EPA 120.1	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.38			pH Units	1	BHE0325	05/09/24	05/13/24	EPA 9045D	

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Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**SEP02@5.0'**  
**2405139-06 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHE0340	05/10/24	05/11/24	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: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0369	92.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0383	95.8 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHE0342	05/10/24	05/10/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.37	67.0 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**SEP02@5.0'**  
**2405139-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHE0329	05/10/24	05/11/24	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: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0278	83.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0261	78.2 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHE0352	05/10/24	06/05/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental  
PO Box 1289  
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Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**SEP02@5.0'**  
**2405139-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.30	0.200	mg/kg dry	1	BHE0363	05/10/24	05/17/24	EPA 6020B
Barium	58.6	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.96	0.400	"	"	"	"	"	"
Lead	7.92	0.200	"	"	"	"	"	"
Nickel	3.09	0.400	"	"	"	"	"	"
Silver	0.0350	0.0200	"	"	"	"	"	"
Zinc	25.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0351	05/10/24	05/10/24	EPA 7196A	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	192	0.0500	mg/L dry	1	BHE0324	05/09/24	05/14/24	EPA 6020B	
Magnesium	4.78	0.0500	"	"	"	"	"	"	
Sodium	2.93	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0571	0.00100	units	1	BHE0457	05/14/24	05/14/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/03/24 13:42

**SEP02@5.0'**  
**2405139-06 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	89.6			%	1	BHE0281	05/10/24	05/10/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.0678	0.0100		mmhos/cm	1	BHE0326	05/09/24	05/13/24	EPA 120.1	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.51			pH Units	1	BHE0325	05/09/24	05/13/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
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Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**SEP03@5.0'**  
**2405139-07 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHE0340	05/10/24	05/11/24	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: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0384	95.9 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0409	102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0392	98.0 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHE0342	05/10/24	05/10/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.80	70.4 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**SEP03@5.0'**  
**2405139-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHE0329	05/10/24	05/11/24	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: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0262	78.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0174	52.1 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHE0352	05/10/24	06/05/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **05/03/24 00:00**

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 - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**SEP03@5.0'**  
**2405139-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.53	0.200	mg/kg dry	1	BHE0363	05/10/24	05/17/24	EPA 6020B
Barium	74.6	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	4.52	0.400	"	"	"	"	"	"
Lead	9.08	0.200	"	"	"	"	"	"
Nickel	2.82	0.400	"	"	"	"	"	"
Silver	0.0564	0.0200	"	"	"	"	"	"
Zinc	27.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0351	05/10/24	05/10/24	EPA 7196A	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	53.8	0.0500	mg/L dry	1	BHE0324	05/09/24	05/14/24	EPA 6020B	
Magnesium	3.87	0.0500	"	"	"	"	"	"	
Sodium	1.56	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0554	0.00100	units	1	BHE0457	05/14/24	05/14/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/03/24 13:42

**SEP03@5.0'**  
**2405139-07 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	87.9			%	1	BHE0281	05/10/24	05/10/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.169	0.0100		mmhos/cm	1	BHE0326	05/09/24	05/13/24	EPA 120.1	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.87			pH Units	1	BHE0325	05/09/24	05/13/24	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**SEP04@5.0'**  
**2405139-08 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHE0340	05/10/24	05/11/24	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: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0380	94.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0381	95.2 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHE0342	05/10/24	05/10/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.1	80.5 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**SEP04@5.0'**  
**2405139-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHE0329	05/10/24	05/11/24	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: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0239	71.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0224	67.2 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHE0352	05/10/24	06/05/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **05/03/24 00:00**

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 - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**SEP04@5.0'**  
**2405139-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.31	0.200	mg/kg dry	1	BHE0363	05/10/24	05/17/24	EPA 6020B
Barium	53.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.10	0.400	"	"	"	"	"	"
Lead	7.79	0.200	"	"	"	"	"	"
Nickel	2.33	0.400	"	"	"	"	"	"
Silver	0.0482	0.0200	"	"	"	"	"	"
Zinc	27.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0350	05/10/24	05/10/24	EPA 7196A	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	28.4	0.0500	mg/L dry	1	BHE0324	05/09/24	05/14/24	EPA 6020B	
Magnesium	3.90	0.0500	"	"	"	"	"	"	
Sodium	2.34	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.109	0.00100	units	1	BHE0457	05/14/24	05/14/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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 PO Box 1289  
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Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/03/24 13:42

**SEP04@5.0'**  
**2405139-08 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	88.5			%	1	BHE0281	05/10/24	05/10/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.216	0.0100		mmhos/cm	1	BHE0326	05/09/24	05/13/24	EPA 120.1	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.42			pH Units	1	BHE0325	05/09/24	05/13/24	EPA 9045D	

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Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**PWB01@5.0'**  
**2405139-09 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHE0340	05/10/24	05/11/24	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: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0377	94.2 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0382	95.6 %	50-150	"	"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHE0342	05/10/24	05/10/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	10.7	85.4 %	30-150	"	"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**PWB01@5.0'**  
**2405139-09 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHE0329	05/10/24	05/11/24	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: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0281	84.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0250	75.0 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHE0352	05/10/24	06/05/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **05/03/24 00:00**

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 - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**PWB01@5.0'**  
**2405139-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.02	0.200	mg/kg dry	1	BHE0363	05/10/24	05/17/24	EPA 6020B	
Barium	42.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.99	0.400	"	"	"	"	"	"	
Lead	4.92	0.200	"	"	"	"	"	"	
Nickel	1.91	0.400	"	"	"	"	"	"	
Silver	0.0209	0.0200	"	"	"	"	"	"	
Zinc	17.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0350	05/10/24	05/10/24	EPA 7196A	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1080	0.0500	mg/L dry	1	BHE0324	05/09/24	05/14/24	EPA 6020B	
Magnesium	11.0	0.0500	"	"	"	"	"	"	
Sodium	18.8	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.156	0.00100	units	1	BHE0457	05/14/24	05/14/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**PWB01@5.0'**  
**2405139-09 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.8		%	1	BHE0281	05/10/24	05/10/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.198	0.0100	mmhos/cm	1	BHE0326	05/09/24	05/13/24	EPA 120.1	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.29		pH Units	1	BHE0325	05/09/24	05/13/24	EPA 9045D	

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Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**PWE01@4.0'**  
**2405139-10 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHE0340	05/10/24	05/11/24	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: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0364	91.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0389	97.4 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHE0342	05/10/24	05/11/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.02	72.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**PWE01@4.0'**  
**2405139-10 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHE0329	05/10/24	05/11/24	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: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0271	81.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0188	56.4 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHE0352	05/10/24	06/05/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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PO Box 1289  
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Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**PWE01@4.0'**  
**2405139-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.90	0.200	mg/kg dry	1	BHE0363	05/10/24	05/17/24	EPA 6020B	
Cadmium	0.233	0.200	"	"	"	"	"	"	
Copper	4.94	0.400	"	"	"	"	"	"	
Lead	10.6	0.200	"	"	"	"	"	"	
Nickel	2.81	0.400	"	"	"	"	"	"	
Silver	0.0950	0.0200	"	"	"	"	"	"	
Zinc	34.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHE0350	05/10/24	05/10/24	EPA 7196A	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	115	0.0500	mg/L dry	1	BHE0324	05/09/24	05/14/24	EPA 6020B	
Magnesium	3.93	0.0500	"	"	"	"	"	"	
Sodium	1.01	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0252	0.00100	units	1	BHE0457	05/14/24	05/14/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.3		%	1	BHE0281	05/10/24	05/10/24	Calculation	

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 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/03/24 13:42

**PWE01@4.0'**  
**2405139-10 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	<b>0.156</b>	0.0100		mmhos/cm	1	BHE0326	05/09/24	05/13/24	EPA 120.1	

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Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/03/24 13:42

**PWE01@4.0'**  
**2405139-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Barium</b>	<b>80.5</b>	0.400	mg/kg dry	1	BHF0395	06/13/24	06/17/24	EPA 6020B	

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

Date Sampled: **05/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.81</b>		pH Units	1	BHF0313	05/09/24	06/12/24	EPA 9045D	I-04

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Wellington CO, 80549

Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**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 BHE0340 - EPA 5030 Soil MS**

**Blank (BHE0340-BLK1)**

Prepared: 05/10/24 Analyzed: 05/11/24

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	0.0362		"	0.0400		90.5	50-150			
Surrogate: Toluene-d8	0.0401		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0389		"	0.0400		97.4	50-150			

**LCS (BHE0340-BS1)**

Prepared: 05/10/24 Analyzed: 05/11/24

Benzene	0.0938	0.0020	mg/kg	0.100		93.8	70-130			
Toluene	0.0909	0.0050	"	0.100		90.9	70-130			
Ethylbenzene	0.0897	0.0050	"	0.100		89.7	70-130			
m,p-Xylene	0.178	0.010	"	0.200		88.8	70-130			
o-Xylene	0.0903	0.0050	"	0.100		90.3	70-130			
1,2,4-Trimethylbenzene	0.0970	0.0050	"	0.100		97.0	70-130			
1,3,5-Trimethylbenzene	0.0946	0.0050	"	0.100		94.6	70-130			
Naphthalene	0.0780	0.0038	"	0.100		78.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0365		"	0.0400		91.4	50-150			
Surrogate: Toluene-d8	0.0406		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0386		"	0.0400		96.4	50-150			

**Matrix Spike (BHE0340-MS1)**

Source: 2405139-01

Prepared: 05/10/24 Analyzed: 05/11/24

Benzene	0.0849	0.0020	mg/kg	0.100	ND	84.9	70-130			
Toluene	0.0804	0.0050	"	0.100	ND	80.4	70-130			
Ethylbenzene	0.0655	0.0050	"	0.100	ND	65.5	70-130			QM-05
m,p-Xylene	0.154	0.010	"	0.200	ND	77.2	70-130			
o-Xylene	0.0768	0.0050	"	0.100	ND	76.8	70-130			
1,2,4-Trimethylbenzene	0.0796	0.0050	"	0.100	ND	79.6	70-130			
1,3,5-Trimethylbenzene	0.0812	0.0050	"	0.100	ND	81.2	70-130			
Naphthalene	0.0229	0.0038	"	0.100	ND	22.9	70-130			QM-05
Surrogate: 1,2-Dichloroethane-d4	0.0382		"	0.0400		95.5	50-150			
Surrogate: Toluene-d8	0.0411		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0379		"	0.0400		94.8	50-150			

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Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/03/24 13:42

**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 BHE0340 - EPA 5030 Soil MS**

Matrix Spike Dup (BHE0340-MSD1)	Source: 2405139-01			Prepared: 05/10/24 Analyzed: 05/11/24						
Benzene	0.0890	0.0020	mg/kg	0.100	ND	89.0	70-130	4.69	30	
Toluene	0.0824	0.0050	"	0.100	ND	82.4	70-130	2.40	30	
Ethylbenzene	0.0652	0.0050	"	0.100	ND	65.2	70-130	0.321	30	QM-05
m,p-Xylene	0.166	0.010	"	0.200	ND	82.8	70-130	6.94	30	
o-Xylene	0.0814	0.0050	"	0.100	ND	81.4	70-130	5.84	30	
1,2,4-Trimethylbenzene	0.0840	0.0050	"	0.100	ND	84.0	70-130	5.46	30	
1,3,5-Trimethylbenzene	0.0848	0.0050	"	0.100	ND	84.8	70-130	4.45	30	
Naphthalene	0.0273	0.0038	"	0.100	ND	27.3	70-130	17.4	30	QM-05
Surrogate: 1,2-Dichloroethane-d4	0.0376		"	0.0400		94.1	50-150			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0379		"	0.0400		94.8	50-150			

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Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/03/24 13:42

**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 BHE0342 - EPA 3550A**

**Blank (BHE0342-BLK1)**

Prepared & Analyzed: 05/10/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	14.3		"	12.5	114	30-150					

**LCS (BHE0342-BS1)**

Prepared & Analyzed: 05/10/24

C10-C28 (DRO)	453	50	mg/kg	500	90.7	70-130					
Surrogate: <i>o</i> -Terphenyl	11.2		"	12.5	89.7	30-150					

**Matrix Spike (BHE0342-MS1)**

Source: 2405139-01

Prepared & Analyzed: 05/10/24

C10-C28 (DRO)	454	50	mg/kg	500	9.82	88.9	70-130				
Surrogate: <i>o</i> -Terphenyl	7.34		"	12.5	58.7	30-150					

**Matrix Spike Dup (BHE0342-MSD1)**

Source: 2405139-01

Prepared & Analyzed: 05/10/24

C10-C28 (DRO)	428	50	mg/kg	500	9.82	83.7	70-130	5.80	20		
Surrogate: <i>o</i> -Terphenyl	8.52		"	12.5	68.2	30-150					

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Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

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

**Summit Scientific**

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

**Batch BHE0329 - EPA 5030 Soil MS**

**Blank (BHE0329-BLK1)**

Prepared: 05/10/24 Analyzed: 05/11/24

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>0.0357</i>		<i>"</i>	<i>0.0333</i>		<i>107</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0349</i>		<i>"</i>	<i>0.0333</i>		<i>105</i>	<i>40-150</i>			

**LCS (BHE0329-BS1)**

Prepared: 05/10/24 Analyzed: 05/11/24

Acenaphthene	0.0324	0.00500	mg/kg	0.0333	97.1	31-137
Anthracene	0.0321	0.00500	"	0.0333	96.3	30-120
Benzo (a) anthracene	0.0314	0.00500	"	0.0333	94.2	30-120
Benzo (a) pyrene	0.0395	0.00500	"	0.0333	119	30-120
Benzo (b) fluoranthene	0.0355	0.00500	"	0.0333	107	30-120
Benzo (k) fluoranthene	0.0390	0.00500	"	0.0333	117	30-120
Chrysene	0.0347	0.00500	"	0.0333	104	30-120
Dibenz (a,h) anthracene	0.0354	0.00500	"	0.0333	106	30-120
Fluoranthene	0.0259	0.00500	"	0.0333	77.8	30-120
Fluorene	0.0319	0.00500	"	0.0333	95.6	30-120
Indeno (1,2,3-cd) pyrene	0.0378	0.00500	"	0.0333	113	30-120
Pyrene	0.0391	0.00500	"	0.0333	117	35-142
1-Methylnaphthalene	0.0348	0.00500	"	0.0333	104	35-142
2-Methylnaphthalene	0.0351	0.00500	"	0.0333	105	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0351</i>		<i>"</i>	<i>0.0333</i>	<i>105</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0243</i>		<i>"</i>	<i>0.0333</i>	<i>72.9</i>	<i>40-150</i>

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**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 BHE0329 - EPA 5030 Soil MS**

<b>Matrix Spike (BHE0329-MS1)</b>	<b>Source: 2405139-01</b>			<b>Prepared: 05/10/24 Analyzed: 05/11/24</b>						
Acenaphthene	0.0193	0.00500	mg/kg	0.0333	ND	58.0	31-137			
Anthracene	0.0201	0.00500	"	0.0333	ND	60.2	30-120			
Benzo (a) anthracene	0.0218	0.00500	"	0.0333	ND	65.3	30-120			
Benzo (a) pyrene	0.0216	0.00500	"	0.0333	ND	64.7	30-120			
Benzo (b) fluoranthene	0.0184	0.00500	"	0.0333	ND	55.1	30-120			
Benzo (k) fluoranthene	0.0197	0.00500	"	0.0333	ND	59.0	30-120			
Chrysene	0.0221	0.00500	"	0.0333	ND	66.3	30-120			
Dibenz (a,h) anthracene	0.0170	0.00500	"	0.0333	ND	51.1	30-120			
Fluoranthene	0.0215	0.00500	"	0.0333	ND	64.5	30-120			
Fluorene	0.0199	0.00500	"	0.0333	ND	59.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0231	0.00500	"	0.0333	ND	69.3	30-120			
Pyrene	0.0261	0.00500	"	0.0333	ND	78.2	35-142			
1-Methylnaphthalene	0.0201	0.00500	"	0.0333	ND	60.4	15-130			
2-Methylnaphthalene	0.0214	0.00500	"	0.0333	ND	64.2	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0217</i>		<i>"</i>	<i>0.0333</i>		<i>65.0</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0207</i>		<i>"</i>	<i>0.0333</i>		<i>62.1</i>	<i>40-150</i>			

<b>Matrix Spike Dup (BHE0329-MSD1)</b>	<b>Source: 2405139-01</b>			<b>Prepared: 05/10/24 Analyzed: 05/11/24</b>						
Acenaphthene	0.0203	0.00500	mg/kg	0.0333	ND	60.8	31-137	4.68	30	
Anthracene	0.0210	0.00500	"	0.0333	ND	63.1	30-120	4.61	30	
Benzo (a) anthracene	0.0224	0.00500	"	0.0333	ND	67.1	30-120	2.75	30	
Benzo (a) pyrene	0.0217	0.00500	"	0.0333	ND	65.2	30-120	0.890	30	
Benzo (b) fluoranthene	0.0161	0.00500	"	0.0333	ND	48.2	30-120	13.2	30	
Benzo (k) fluoranthene	0.0175	0.00500	"	0.0333	ND	52.5	30-120	11.8	30	
Chrysene	0.0230	0.00500	"	0.0333	ND	69.1	30-120	4.16	30	
Dibenz (a,h) anthracene	0.0163	0.00500	"	0.0333	ND	48.8	30-120	4.75	30	
Fluoranthene	0.0226	0.00500	"	0.0333	ND	67.8	30-120	4.97	30	
Fluorene	0.0205	0.00500	"	0.0333	ND	61.5	30-120	2.94	30	
Indeno (1,2,3-cd) pyrene	0.0214	0.00500	"	0.0333	ND	64.2	30-120	7.54	30	
Pyrene	0.0320	0.00500	"	0.0333	ND	96.0	35-142	20.4	30	
1-Methylnaphthalene	0.0204	0.00500	"	0.0333	ND	61.2	15-130	1.35	50	
2-Methylnaphthalene	0.0211	0.00500	"	0.0333	ND	63.4	15-130	1.34	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0221</i>		<i>"</i>	<i>0.0333</i>		<i>66.3</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0220</i>		<i>"</i>	<i>0.0333</i>		<i>66.0</i>	<i>40-150</i>			

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PO Box 1289  
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Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

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

**Summit Scientific**

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

**Batch BHF0279 - EPA 5030 Soil MS**

**Blank (BHF0279-BLK1)**

Prepared & Analyzed: 06/11/24

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>0.0211</i>		<i>"</i>	<i>0.0333</i>		<i>63.3</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0301</i>		<i>"</i>	<i>0.0333</i>		<i>90.3</i>		<i>40-150</i>		

**LCS (BHF0279-BS1)**

Prepared & Analyzed: 06/11/24

Acenaphthene	0.0221	0.00500	mg/kg	0.0333		66.3		31-137		
Anthracene	0.0226	0.00500	"	0.0333		67.8		30-120		
Benzo (a) anthracene	0.0249	0.00500	"	0.0333		74.6		30-120		
Benzo (a) pyrene	0.0218	0.00500	"	0.0333		65.4		30-120		
Benzo (b) fluoranthene	0.0218	0.00500	"	0.0333		65.3		30-120		
Benzo (k) fluoranthene	0.0215	0.00500	"	0.0333		64.6		30-120		
Chrysene	0.0237	0.00500	"	0.0333		71.1		30-120		
Dibenz (a,h) anthracene	0.0212	0.00500	"	0.0333		63.5		30-120		
Fluoranthene	0.0230	0.00500	"	0.0333		69.1		30-120		
Fluorene	0.0149	0.00500	"	0.0333		44.6		30-120		
Indeno (1,2,3-cd) pyrene	0.0138	0.00500	"	0.0333		41.3		30-120		
Pyrene	0.0262	0.00500	"	0.0333		78.8		35-142		
1-Methylnaphthalene	0.0181	0.00500	"	0.0333		54.4		35-142		
2-Methylnaphthalene	0.0140	0.00500	"	0.0333		42.1		35-142		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0211</i>		<i>"</i>	<i>0.0333</i>		<i>63.4</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0245</i>		<i>"</i>	<i>0.0333</i>		<i>73.4</i>		<i>40-150</i>		

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**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 BHF0279 - EPA 5030 Soil MS**

<b>Matrix Spike (BHF0279-MS1)</b>	<b>Source: 2406096-01</b>			<b>Prepared &amp; Analyzed: 06/11/24</b>						
Acenaphthene	0.0188	0.00500	mg/kg	0.0333	ND	56.5	31-137			
Anthracene	0.0192	0.00500	"	0.0333	ND	57.7	30-120			
Benzo (a) anthracene	0.0211	0.00500	"	0.0333	ND	63.3	30-120			
Benzo (a) pyrene	0.0180	0.00500	"	0.0333	ND	53.9	30-120			
Benzo (b) fluoranthene	0.0174	0.00500	"	0.0333	ND	52.3	30-120			
Benzo (k) fluoranthene	0.0175	0.00500	"	0.0333	ND	52.6	30-120			
Chrysene	0.0199	0.00500	"	0.0333	ND	59.6	30-120			
Dibenz (a,h) anthracene	0.0176	0.00500	"	0.0333	ND	52.8	30-120			
Fluoranthene	0.0189	0.00500	"	0.0333	ND	56.7	30-120			
Fluorene	0.0138	0.00500	"	0.0333	ND	41.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0173	0.00500	"	0.0333	ND	51.8	30-120			
Pyrene	0.0199	0.00500	"	0.0333	ND	59.8	35-142			
1-Methylnaphthalene	0.0169	0.00500	"	0.0333	0.00610	32.5	15-130			
2-Methylnaphthalene	0.0241	0.00500	"	0.0333	ND	72.4	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0187</i>		<i>"</i>	<i>0.0333</i>		<i>56.1</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0203</i>		<i>"</i>	<i>0.0333</i>		<i>60.8</i>	<i>40-150</i>			

<b>Matrix Spike Dup (BHF0279-MSD1)</b>	<b>Source: 2406096-01</b>			<b>Prepared &amp; Analyzed: 06/11/24</b>						
Acenaphthene	0.0180	0.00500	mg/kg	0.0333	ND	54.1	31-137	4.23	30	
Anthracene	0.0185	0.00500	"	0.0333	ND	55.5	30-120	3.90	30	
Benzo (a) anthracene	0.0203	0.00500	"	0.0333	ND	61.0	30-120	3.60	30	
Benzo (a) pyrene	0.0173	0.00500	"	0.0333	ND	51.8	30-120	3.91	30	
Benzo (b) fluoranthene	0.0167	0.00500	"	0.0333	ND	50.2	30-120	4.05	30	
Benzo (k) fluoranthene	0.0180	0.00500	"	0.0333	ND	54.0	30-120	2.71	30	
Chrysene	0.0198	0.00500	"	0.0333	ND	59.4	30-120	0.407	30	
Dibenz (a,h) anthracene	0.0153	0.00500	"	0.0333	ND	45.8	30-120	14.2	30	
Fluoranthene	0.0185	0.00500	"	0.0333	ND	55.5	30-120	1.96	30	
Fluorene	0.0154	0.00500	"	0.0333	ND	46.3	30-120	11.3	30	
Indeno (1,2,3-cd) pyrene	0.0196	0.00500	"	0.0333	ND	58.7	30-120	12.6	30	
Pyrene	0.0212	0.00500	"	0.0333	ND	63.7	35-142	6.33	30	
1-Methylnaphthalene	0.0170	0.00500	"	0.0333	0.00610	32.7	15-130	0.357	50	
2-Methylnaphthalene	0.0242	0.00500	"	0.0333	ND	72.6	15-130	0.328	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0188</i>		<i>"</i>	<i>0.0333</i>		<i>56.5</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0199</i>		<i>"</i>	<i>0.0333</i>		<i>59.8</i>	<i>40-150</i>			

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/03/24 13:42

**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 BHE0352 - EPA 3050B**

**Blank (BHE0352-BLK1)**

Prepared: 05/10/24 Analyzed: 06/05/24

Boron ND 2.00 mg/L

**LCS (BHE0352-BS1)**

Prepared: 05/10/24 Analyzed: 06/05/24

Boron 5.13 2.00 mg/L 5.00 103 80-120

**Duplicate (BHE0352-DUP1)**

Source: 2405139-01

Prepared: 05/10/24 Analyzed: 06/05/24

Boron 0.595 2.00 mg/L 0.639 7.23 20

**Matrix Spike (BHE0352-MS1)**

Source: 2405139-01

Prepared: 05/10/24 Analyzed: 06/05/24

Boron 6.10 2.00 mg/L 5.02 0.639 109 75-125

**Matrix Spike Dup (BHE0352-MSD1)**

Source: 2405139-01

Prepared: 05/10/24 Analyzed: 06/05/24

Boron 5.67 2.00 mg/L 5.02 0.639 100 75-125 7.33 25

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Fremont Environmental  
 PO Box 1289  
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Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/03/24 13:42

**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 BHE0363 - EPA 3050B**

**Blank (BHE0363-BLK1)**

Prepared: 05/10/24 Analyzed: 05/17/24

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 (BHE0363-BS1)**

Prepared: 05/10/24 Analyzed: 05/17/24

Arsenic	37.8	0.200	mg/kg wet	40.0	94.4	80-120
Barium	40.7	0.400	"	40.0	102	80-120
Cadmium	1.93	0.200	"	2.00	96.6	80-120
Copper	37.8	0.400	"	40.0	94.6	80-120
Lead	20.0	0.200	"	20.0	100	80-120
Nickel	36.8	0.400	"	40.0	91.9	80-120
Silver	2.00	0.0200	"	2.00	99.8	80-120
Zinc	37.8	0.400	"	40.0	94.4	80-120
Selenium	3.72	0.260	"	4.00	93.1	80-120

**Duplicate (BHE0363-DUP1)**

Source: 2405139-01

Prepared: 05/10/24 Analyzed: 05/22/24

Arsenic	3.83	0.200	mg/kg dry	3.84	0.398	20
Barium	81.9	0.400	"	79.8	2.50	20
Cadmium	0.364	0.200	"	0.374	2.73	20
Copper	13.7	0.400	"	13.7	0.127	20
Lead	14.0	0.200	"	14.3	2.20	20
Nickel	7.95	0.400	"	8.07	1.51	20
Silver	0.146	0.0200	"	0.131	10.3	20
Zinc	51.7	0.400	"	52.7	1.90	20
Selenium	ND	0.260	"	ND		20

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Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**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 BHE0363 - EPA 3050B**

**Matrix Spike (BHE0363-MS1)**

Source: 2405139-01

Prepared: 05/10/24 Analyzed: 05/22/24

Arsenic	45.4	0.200	mg/kg dry	44.8	3.84	92.9	75-125			
Barium	124	0.400	"	44.8	79.8	98.6	75-125			
Cadmium	2.65	0.200	"	2.24	0.374	102	75-125			
Copper	57.2	0.400	"	44.8	13.7	97.1	75-125			
Lead	35.6	0.200	"	22.4	14.3	94.8	75-125			
Nickel	50.2	0.400	"	44.8	8.07	94.1	75-125			
Silver	2.34	0.0200	"	2.24	0.131	98.8	75-125			
Zinc	94.4	0.400	"	44.8	52.7	93.1	75-125			
Selenium	3.62	0.260	"	4.48	ND	80.9	75-125			

**Matrix Spike Dup (BHE0363-MSD1)**

Source: 2405139-01

Prepared: 05/10/24 Analyzed: 05/22/24

Arsenic	45.8	0.200	mg/kg dry	44.8	3.84	93.7	75-125	0.750	25
Barium	120	0.400	"	44.8	79.8	89.0	75-125	3.56	25
Cadmium	2.55	0.200	"	2.24	0.374	97.3	75-125	3.60	25
Copper	57.4	0.400	"	44.8	13.7	97.5	75-125	0.320	25
Lead	34.3	0.200	"	22.4	14.3	89.1	75-125	3.68	25
Nickel	50.4	0.400	"	44.8	8.07	94.6	75-125	0.389	25
Silver	2.28	0.0200	"	2.24	0.131	95.8	75-125	2.93	25
Zinc	94.5	0.400	"	44.8	52.7	93.3	75-125	0.0920	25
Selenium	3.52	0.260	"	4.48	ND	78.6	75-125	2.95	25

**Post Spike (BHE0363-PS1)**

Source: 2405139-01

Prepared: 05/10/24 Analyzed: 05/17/24

Arsenic	108		ug/l	100	8.51	99.2	75-125		
Barium	343		"	100	177	167	75-125		QM-07
Cadmium	6.50		"	5.00	0.828	113	75-125		
Copper	62.4		"	100	30.3	32.1	75-125		QM-07
Lead	82.5		"	50.0	31.7	102	75-125		
Nickel	55.4		"	100	17.9	37.5	75-125		QM-07
Silver	6.26		"	5.00	0.291	119	75-125		
Zinc	208		"	100	117	91.2	75-125		
Selenium	8.56		"	10.0	0.345	82.2	75-125		

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BHF0395 - EPA 3050B**

**Blank (BHF0395-BLK1)**

Prepared: 06/13/24 Analyzed: 06/17/24

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 (BHF0395-BS1)**

Prepared: 06/13/24 Analyzed: 06/17/24

Arsenic	39.8	0.200	mg/kg wet	40.0	99.6	80-120
Barium	37.9	0.400	"	40.0	94.6	80-120
Cadmium	1.97	0.200	"	2.00	98.3	80-120
Copper	39.7	0.400	"	40.0	99.2	80-120
Lead	18.5	0.200	"	20.0	92.6	80-120
Nickel	39.8	0.400	"	40.0	99.5	80-120
Silver	1.92	0.0200	"	2.00	95.9	80-120
Zinc	38.9	0.400	"	40.0	97.2	80-120
Selenium	3.64	0.260	"	4.00	91.1	80-120

**Duplicate (BHF0395-DUP1)**

Source: 2404314-01RE1

Prepared: 06/13/24 Analyzed: 06/17/24

Arsenic	2.90	0.200	mg/kg wet	2.95	1.71	20
Barium	18.9	0.400	"	20.2	6.94	20
Cadmium	0.129	0.200	"	0.138	6.70	20
Copper	5.17	0.400	"	5.37	3.89	20
Lead	6.70	0.200	"	7.09	5.72	20
Nickel	3.70	0.400	"	4.23	13.3	20
Silver	0.0264	0.0200	"	0.0248	6.06	20
Zinc	18.9	0.400	"	19.7	3.83	20
Selenium	ND	0.260	"	ND		20

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Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**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 BHF0395 - EPA 3050B**

**Matrix Spike (BHF0395-MS1)**

Source: 2404314-01RE1 Prepared: 06/13/24 Analyzed: 06/17/24

Arsenic	38.0	0.200	mg/kg wet	37.0	2.95	94.6	75-125			
Barium	59.6	0.400	"	37.0	20.2	106	75-125			
Cadmium	1.92	0.200	"	1.85	0.138	96.2	75-125			
Copper	21.8	0.400	"	37.0	5.37	44.4	75-125			QM-05
Lead	20.9	0.200	"	18.5	7.09	74.7	75-125			QM-07
Nickel	20.7	0.400	"	37.0	4.23	44.5	75-125			QM-05
Silver	1.77	0.0200	"	1.85	0.0248	94.4	75-125			
Zinc	35.9	0.400	"	37.0	19.7	43.8	75-125			QM-05
Selenium	2.71	0.260	"	3.70	ND	73.1	75-125			QM-07

**Matrix Spike Dup (BHF0395-MSD1)**

Source: 2404314-01RE1 Prepared: 06/13/24 Analyzed: 06/17/24

Arsenic	38.2	0.200	mg/kg wet	37.0	2.95	95.1	75-125	0.468	25	
Barium	61.4	0.400	"	37.0	20.2	111	75-125	2.95	25	
Cadmium	1.97	0.200	"	1.85	0.138	98.9	75-125	2.63	25	
Copper	21.8	0.400	"	37.0	5.37	44.3	75-125	0.0102	25	QM-05
Lead	21.5	0.200	"	18.5	7.09	77.6	75-125	2.49	25	
Nickel	20.7	0.400	"	37.0	4.23	44.4	75-125	0.161	25	QM-05
Silver	1.81	0.0200	"	1.85	0.0248	96.1	75-125	1.78	25	
Zinc	35.8	0.400	"	37.0	19.7	43.6	75-125	0.198	25	QM-05
Selenium	2.70	0.260	"	3.70	ND	73.0	75-125	0.151	25	QM-07

Summit Scientific

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
07/03/24 13:42

**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 BHE0350 - 3060A Mod**

<b>Blank (BHE0350-BLK1)</b>											
											Prepared & Analyzed: 05/10/24
Chromium, Hexavalent	ND	0.30	mg/kg wet								
<b>LCS (BHE0350-BS1)</b>											
											Prepared & Analyzed: 05/10/24
Chromium, Hexavalent	26.1	0.30	mg/kg wet	25.0	104	80-120					
<b>Duplicate (BHE0350-DUP1)</b>											
											Source: 2405139-08
											Prepared & Analyzed: 05/10/24
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND					20	
<b>Matrix Spike (BHE0350-MS1)</b>											
											Source: 2405139-08
											Prepared & Analyzed: 05/10/24
Chromium, Hexavalent	27.3	0.30	mg/kg dry	28.2	ND	96.6	75-125				
<b>Matrix Spike Dup (BHE0350-MSD1)</b>											
											Source: 2405139-08
											Prepared & Analyzed: 05/10/24
Chromium, Hexavalent	27.2	0.30	mg/kg dry	28.2	ND	96.4	75-125	0.207		20	

**Batch BHE0351 - 3060A Mod**

<b>Blank (BHE0351-BLK1)</b>											
											Prepared & Analyzed: 05/10/24
Chromium, Hexavalent	ND	0.30	mg/kg wet								
<b>LCS (BHE0351-BS1)</b>											
											Prepared & Analyzed: 05/10/24
Chromium, Hexavalent	26.1	0.30	mg/kg wet	25.0	104	80-120					
<b>Duplicate (BHE0351-DUP1)</b>											
											Source: 2405138-01
											Prepared & Analyzed: 05/10/24
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND					20	
<b>Matrix Spike (BHE0351-MS1)</b>											
											Source: 2405138-01
											Prepared & Analyzed: 05/10/24
Chromium, Hexavalent	27.8	0.30	mg/kg dry	29.9	ND	93.2	75-125				

Summit Scientific

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Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/03/24 13:42

**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 BHE0351 - 3060A Mod**

**Matrix Spike Dup (BHE0351-MSD1)**

Source: 2405138-01

Prepared & Analyzed: 05/10/24

Chromium, Hexavalent	27.8	0.30	mg/kg dry	29.9	ND	93.0	75-125	0.215	20	
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Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/03/24 13:42

**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 BHE0324 - General Preparation**

**Blank (BHE0324-BLK1)**

Prepared: 05/09/24 Analyzed: 05/14/24

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

**LCS (BHE0324-BS1)**

Prepared: 05/09/24 Analyzed: 05/14/24

Calcium	6.25	0.0500	mg/L wet	5.00		125	70-130			
Magnesium	5.25	0.0500	"	5.00		105	70-130			
Sodium	4.93	0.0500	"	5.00		98.6	70-130			

Summit Scientific

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 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/03/24 13:42

**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 BHE0281 - General Preparation**

<b>Duplicate (BHE0281-DUP1)</b>		<b>Source: 2405138-11</b>			<b>Prepared &amp; Analyzed: 05/10/24</b>						
% Solids	93.9		%		94.5			0.626		20	

Summit Scientific

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Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/03/24 13:42

**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 BHE0326 - General Preparation**

**Blank (BHE0326-BLK1)**

Prepared: 05/09/24 Analyzed: 05/13/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHE0326-BS1)**

Prepared: 05/09/24 Analyzed: 05/13/24

Specific Conductance (EC) 0.146 0.0100 mmhos/cm 0.150 97.1 95-105

**Duplicate (BHE0326-DUP1)**

Source: 2405139-01

Prepared: 05/09/24 Analyzed: 05/13/24

Specific Conductance (EC) 0.0986 0.0100 mmhos/cm 0.0994 0.859 20

Summit Scientific

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



Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Ewing Robert Fed T4N-R66W-S14 L01

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 07/03/24 13:42

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

**Summit Scientific**

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

**Batch BHE0325 - General Preparation**

<b>LCS (BHE0325-BS1)</b>										
					Prepared: 05/09/24 Analyzed: 05/13/24					
pH	9.20		pH Units	9.18	100	95-105				
<b>Duplicate (BHE0325-DUP1)</b>										
					Source: 2405139-01 Prepared: 05/09/24 Analyzed: 05/13/24					
pH	7.51		pH Units	7.53				0.266	20	

**Batch BHF0313 - General Preparation**

<b>LCS (BHF0313-BS1)</b>										
					Prepared & Analyzed: 06/12/24					
pH	9.16		pH Units	9.18	99.8	95-105				
<b>Duplicate (BHF0313-DUP1)</b>										
					Source: 2404314-01RE1 Prepared & Analyzed: 06/12/24					
pH	8.48		pH Units	8.51				0.353	20	

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### Notes and Definitions

- 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.
- O-05 This sample was extracted outside of the EPA recommended holding time.
- O-04 This sample was analyzed above the recommended temperature.
- I-04 Sample was analyzed out of recommended holding time per clients request.
- 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