

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 02, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Farr T4N-R64W-S18 L01

Work Order #2407031

Enclosed are the results of analyses for samples received by Summit Scientific on 07/02/24 15:22. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Natalie Tessier". The signature is fluid and cursive, written in a professional style.

Natalie Tessier For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/02/24 13:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
E01@12.0'	2407031-01	Soil	07/02/24 00:00	07/02/24 15:22

Case Narrative

Rerun analyses were performed by client request on 7/24/24.
The rerun results included in this report are denoted with "RE#."

This is a revision of the report originally sent on 7/9/24 at 13:59 MT.

SUMMIT SCIENTIFIC

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

Lab ID	Page <u>1</u> of <u>1</u>
2407031	

Send Data To:		Send Invoice To:	
Client: <u>Fremont Env</u>	Project Manager: <u>Paul Henehan</u>	Company: <u>Noble</u>	
Address:	E-Mail: <u>Paulh@fremontenv.com</u>	Project Name/Location:	
City/State/Zip:	<u>jeffg@fremontenv.com Ethamb@fremontenv.com</u>	AFE#:	
Phone:	Project Name: <u>Farr TYN-R64W-S18 L01</u>	PO/Billing Codes:	
Sampler Name: <u>JG</u>	Project Number:	Contact:	

					Preservative				Matrix				Analysis Requested						Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX+N	TMBs (915)	DRD,ORO,GRD	PAHs (915)	EC-PH, SAR, B2con	Metals (915)		
1	E01@12.0'	7/2/24		2			X			X			X	X	X	X	X	X		
2																				
3																				
4																				
5																				
6																				
7																				
8																				
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12																				
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15																				

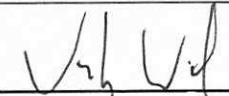
Relinquished by: <u>JG</u>	Date/Time: <u>7/2/24 1522</u>	Received by: <u>JH Vnd</u>	Date/Time: <u>7/2/24 15:22</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	Field Turb.	
Temperature Upon Receipt: <u>25.8</u>	Corrected Temperature	IR gun #:	<u>2</u>	HNO3 lot #:		

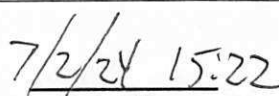
S₂

Sample Receipt Checklist

S2 Work Order# 2407031Client: Fremont Client Project ID: Furr T4N-R644-S18 L61Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: _____
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 25.8 Thermometer # 2

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

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

 Custodian Printed Name


 Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/02/24 13:44

E01@12.0'
2407031-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHG0087	07/02/24	07/03/24	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: **07/02/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0391	97.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0409	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHG0088	"	07/03/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.05	72.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henahan

Reported:
08/02/24 13:44

E01@12.0'
2407031-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHG0097	07/03/24	07/04/24	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: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0144	43.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0162	48.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHG0112	07/03/24	07/09/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/02/24 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 - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henahan

Reported:
08/02/24 13:44

E01@12.0'
2407031-01 (Soil)

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Total Metals by EPA 6020B

Barium	61.6	0.400	mg/kg dry	1	BHG0093	07/03/24	07/04/24	EPA 6020B
Cadmium	0.292	0.200	"	"	"	"	"	"
Copper	9.25	0.400	"	"	"	"	"	"
Lead	9.00	0.200	"	"	"	"	"	"
Nickel	10.5	0.400	"	"	"	"	"	"
Silver	0.0281	0.0200	"	"	"	"	"	"
Zinc	42.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0107	07/03/24	07/03/24	EPA 7196A	

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

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1670	0.0500	mg/L dry	1	BHG0089	07/02/24	07/03/24	EPA 6020B	
Magnesium	177	0.0500	"	"	"	"	"	"	
Sodium	21.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.135	0.00100	units	1	BHG0192	07/08/24	07/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.4		%	1	BHG0146	07/08/24	07/08/24	Calculation	

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Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/02/24 13:44

E01@12.0'
2407031-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Specific Conductance (EC)	0.616	0.0100	mmhos/cm	1	BHG0091	07/02/24	07/08/24	EPA 120.1	

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

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
pH	8.07		pH Units	1	BHG0090	07/02/24	07/08/24	EPA 9045D	

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Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Farr T4N-R64W-S18 L01 Project Number: [none] Project Manager: Paul Henchan	Reported: 08/02/24 13:44
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E01@12.0'
2407031-01RE1 (Soil)

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Total Metals by EPA 6020B

Date Sampled: 07/02/24 00:00									
Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.57	0.200	mg/kg dry	1	BHG0875	07/03/24	08/02/24	EPA 6020B	

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Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/02/24 13:44

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHG0087 - EPA 5030 Soil MS

Blank (BHG0087-BLK1)

Prepared: 07/02/24 Analyzed: 07/03/24

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	0.0351		"	0.0400		87.8	50-150			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0406		"	0.0400		102	50-150			

LCS (BHG0087-BS1)

Prepared: 07/02/24 Analyzed: 07/03/24

Benzene	0.0802	0.0020	mg/kg	0.100		80.2	70-130			
Toluene	0.0921	0.0050	"	0.100		92.1	70-130			
Ethylbenzene	0.0929	0.0050	"	0.100		92.9	70-130			
m,p-Xylene	0.184	0.010	"	0.200		91.8	70-130			
o-Xylene	0.0918	0.0050	"	0.100		91.8	70-130			
1,2,4-Trimethylbenzene	0.0856	0.0050	"	0.100		85.6	70-130			
1,3,5-Trimethylbenzene	0.0865	0.0050	"	0.100		86.5	70-130			
Naphthalene	0.0728	0.0038	"	0.100		72.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0362		"	0.0400		90.4	50-150			
Surrogate: Toluene-d8	0.0425		"	0.0400		106	50-150			
Surrogate: 4-Bromofluorobenzene	0.0414		"	0.0400		103	50-150			

Matrix Spike (BHG0087-MS1)

Source: 2407019-01

Prepared: 07/02/24 Analyzed: 07/03/24

Benzene	0.0740	0.0020	mg/kg	0.100	ND	74.0	70-130			
Toluene	0.0853	0.0050	"	0.100	ND	85.3	70-130			
Ethylbenzene	0.0793	0.0050	"	0.100	ND	79.3	70-130			
m,p-Xylene	0.159	0.010	"	0.200	ND	79.7	70-130			
o-Xylene	0.0785	0.0050	"	0.100	ND	78.5	70-130			
1,2,4-Trimethylbenzene	0.0729	0.0050	"	0.100	ND	72.9	70-130			
1,3,5-Trimethylbenzene	0.0736	0.0050	"	0.100	ND	73.6	70-130			
Naphthalene	0.0678	0.0038	"	0.100	ND	67.8	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0360		"	0.0400		90.0	50-150			
Surrogate: Toluene-d8	0.0427		"	0.0400		107	50-150			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.5	50-150			

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Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/02/24 13:44

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHG0087 - EPA 5030 Soil MS

Matrix Spike Dup (BHG0087-MSD1)	Source: 2407019-01			Prepared: 07/02/24 Analyzed: 07/03/24						
Benzene	0.0772	0.0020	mg/kg	0.100	ND	77.2	70-130	4.29	30	
Toluene	0.0897	0.0050	"	0.100	ND	89.7	70-130	5.04	30	
Ethylbenzene	0.0800	0.0050	"	0.100	ND	80.0	70-130	0.829	30	
m,p-Xylene	0.161	0.010	"	0.200	ND	80.6	70-130	1.12	30	
o-Xylene	0.0793	0.0050	"	0.100	ND	79.3	70-130	1.03	30	
1,2,4-Trimethylbenzene	0.0747	0.0050	"	0.100	ND	74.7	70-130	2.44	30	
1,3,5-Trimethylbenzene	0.0760	0.0050	"	0.100	ND	76.0	70-130	3.21	30	
Naphthalene	0.0699	0.0038	"	0.100	ND	69.9	70-130	3.05	30	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0351		"	0.0400		87.7	50-150			
Surrogate: Toluene-d8	0.0420		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		97.9	50-150			

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Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/02/24 13:44

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHG0088 - EPA 3550A

Blank (BHG0088-BLK1)

Prepared: 07/02/24 Analyzed: 07/03/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	11.1		"	12.5		88.8	30-150			

LCS (BHG0088-BS1)

Prepared: 07/02/24 Analyzed: 07/03/24

C10-C28 (DRO)	509	50	mg/kg	500		102	70-130			
Surrogate: o-Terphenyl	18.1		"	12.5		145	30-150			

Matrix Spike (BHG0088-MS1)

Source: 2407019-01

Prepared: 07/02/24 Analyzed: 07/03/24

C10-C28 (DRO)	406	50	mg/kg	500	ND	81.1	70-130			
Surrogate: o-Terphenyl	13.2		"	12.5		106	30-150			

Matrix Spike Dup (BHG0088-MSD1)

Source: 2407019-01

Prepared: 07/02/24 Analyzed: 07/03/24

C10-C28 (DRO)	400	50	mg/kg	500	ND	80.0	70-130	1.41	20	
Surrogate: o-Terphenyl	13.1		"	12.5		105	30-150			

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Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/02/24 13:44

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHG0097 - EPA 5030 Soil MS

Blank (BHG0097-BLK1)

Prepared & Analyzed: 07/03/24

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	"

Surrogate: 2-Methylnaphthalene-d10	0.0234	"	0.0333	70.2	40-150
Surrogate: Fluoranthene-d10	0.0241	"	0.0333	72.3	40-150

LCS (BHG0097-BS1)

Prepared & Analyzed: 07/03/24

Acenaphthene	0.0257	0.00500	mg/kg	0.0333	77.1	31-137
Anthracene	0.0256	0.00500	"	0.0333	76.7	30-120
Benzo (a) anthracene	0.0259	0.00500	"	0.0333	77.6	30-120
Benzo (a) pyrene	0.0231	0.00500	"	0.0333	69.3	30-120
Benzo (b) fluoranthene	0.0251	0.00500	"	0.0333	75.4	30-120
Benzo (k) fluoranthene	0.0261	0.00500	"	0.0333	78.4	30-120
Chrysene	0.0259	0.00500	"	0.0333	77.8	30-120
Dibenz (a,h) anthracene	0.0196	0.00500	"	0.0333	58.9	30-120
Fluoranthene	0.0258	0.00500	"	0.0333	77.4	30-120
Fluorene	0.0252	0.00500	"	0.0333	75.6	30-120
Indeno (1,2,3-cd) pyrene	0.0199	0.00500	"	0.0333	59.8	30-120
Pyrene	0.0287	0.00500	"	0.0333	86.1	35-142
1-Methylnaphthalene	0.0241	0.00500	"	0.0333	72.3	35-142
2-Methylnaphthalene	0.0241	0.00500	"	0.0333	72.3	35-142

Surrogate: 2-Methylnaphthalene-d10	0.0254	"	0.0333	76.2	40-150
Surrogate: Fluoranthene-d10	0.0273	"	0.0333	81.8	40-150

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/02/24 13:44

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHG0097 - EPA 5030 Soil MS

Matrix Spike (BHG0097-MS1)

Source: 2407018-01

Prepared & Analyzed: 07/03/24

Acenaphthene	0.0186	0.00500	mg/kg	0.0333	ND	55.7	31-137		
Anthracene	0.0181	0.00500	"	0.0333	ND	54.2	30-120		
Benzo (a) anthracene	0.0186	0.00500	"	0.0333	ND	55.8	30-120		
Benzo (a) pyrene	0.0163	0.00500	"	0.0333	ND	49.0	30-120		
Benzo (b) fluoranthene	0.0176	0.00500	"	0.0333	ND	52.9	30-120		
Benzo (k) fluoranthene	0.0183	0.00500	"	0.0333	ND	54.9	30-120		
Chrysene	0.0183	0.00500	"	0.0333	ND	54.9	30-120		
Dibenz (a,h) anthracene	0.0137	0.00500	"	0.0333	ND	41.1	30-120		
Fluoranthene	0.0182	0.00500	"	0.0333	ND	54.7	30-120		
Fluorene	0.0183	0.00500	"	0.0333	ND	54.9	30-120		
Indeno (1,2,3-cd) pyrene	0.0143	0.00500	"	0.0333	ND	42.9	30-120		
Pyrene	0.0195	0.00500	"	0.0333	ND	58.5	35-142		
1-Methylnaphthalene	0.0171	0.00500	"	0.0333	ND	51.4	15-130		
2-Methylnaphthalene	0.0159	0.00500	"	0.0333	ND	47.7	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0179		"	0.0333		53.7	40-150		
Surrogate: Fluoranthene-d10	0.0191		"	0.0333		57.2	40-150		

Matrix Spike Dup (BHG0097-MSD1)

Source: 2407018-01

Prepared & Analyzed: 07/03/24

Acenaphthene	0.0197	0.00500	mg/kg	0.0333	ND	59.0	31-137	5.78	30
Anthracene	0.0192	0.00500	"	0.0333	ND	57.7	30-120	6.32	30
Benzo (a) anthracene	0.0198	0.00500	"	0.0333	ND	59.3	30-120	5.95	30
Benzo (a) pyrene	0.0177	0.00500	"	0.0333	ND	53.0	30-120	7.78	30
Benzo (b) fluoranthene	0.0184	0.00500	"	0.0333	ND	55.1	30-120	4.06	30
Benzo (k) fluoranthene	0.0192	0.00500	"	0.0333	ND	57.6	30-120	4.66	30
Chrysene	0.0194	0.00500	"	0.0333	ND	58.3	30-120	6.02	30
Dibenz (a,h) anthracene	0.0149	0.00500	"	0.0333	ND	44.8	30-120	8.71	30
Fluoranthene	0.0195	0.00500	"	0.0333	ND	58.5	30-120	6.75	30
Fluorene	0.0194	0.00500	"	0.0333	ND	58.3	30-120	5.97	30
Indeno (1,2,3-cd) pyrene	0.0147	0.00500	"	0.0333	ND	44.2	30-120	3.10	30
Pyrene	0.0210	0.00500	"	0.0333	ND	63.1	35-142	7.58	30
1-Methylnaphthalene	0.0177	0.00500	"	0.0333	ND	53.1	15-130	3.18	50
2-Methylnaphthalene	0.0168	0.00500	"	0.0333	ND	50.5	15-130	5.78	50
Surrogate: 2-Methylnaphthalene-d10	0.0177		"	0.0333		53.2	40-150		
Surrogate: Fluoranthene-d10	0.0205		"	0.0333		61.6	40-150		

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/02/24 13:44

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

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

Batch BHG0112 - EPA 3050B

Blank (BHG0112-BLK1)

Prepared: 07/03/24 Analyzed: 07/09/24

Boron ND 2.00 mg/L

LCS (BHG0112-BS1)

Prepared: 07/03/24 Analyzed: 07/09/24

Boron 4.95 2.00 mg/L 5.00 99.0 80-120

Duplicate (BHG0112-DUP1)

Source: 2407031-01

Prepared: 07/03/24 Analyzed: 07/09/24

Boron 0.282 2.00 mg/L 0.337 18.0 20

Matrix Spike (BHG0112-MS1)

Source: 2407031-01

Prepared: 07/03/24 Analyzed: 07/09/24

Boron 6.28 2.00 mg/L 5.04 0.337 118 75-125

Matrix Spike Dup (BHG0112-MSD1)

Source: 2407031-01

Prepared: 07/03/24 Analyzed: 07/09/24

Boron 6.12 2.00 mg/L 5.04 0.337 115 75-125 2.64 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/02/24 13:44

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHG0093 - EPA 3050B

Blank (BHG0093-BLK1)

Prepared: 07/03/24 Analyzed: 07/04/24

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 (BHG0093-BS1)

Prepared: 07/03/24 Analyzed: 07/04/24

Arsenic	39.0	0.200	mg/kg wet	40.0	97.5	80-120
Barium	40.8	0.400	"	40.0	102	80-120
Cadmium	1.91	0.200	"	2.00	95.3	80-120
Copper	38.3	0.400	"	40.0	95.8	80-120
Lead	19.3	0.200	"	20.0	96.3	80-120
Nickel	38.0	0.400	"	40.0	95.1	80-120
Silver	1.96	0.0200	"	2.00	98.2	80-120
Zinc	37.9	0.400	"	40.0	94.8	80-120
Selenium	4.15	0.260	"	4.00	104	80-120

Duplicate (BHG0093-DUP1)

Source: 2407031-01

Prepared: 07/03/24 Analyzed: 07/04/24

Arsenic	4.24	0.200	mg/kg dry	4.47	5.32	20	QR-04
Barium	90.4	0.400	"	61.6	37.8	20	
Cadmium	0.286	0.200	"	0.292	2.00	20	
Copper	9.22	0.400	"	9.25	0.306	20	
Lead	9.85	0.200	"	9.00	9.00	20	
Nickel	10.2	0.400	"	10.5	2.75	20	
Silver	0.0264	0.0200	"	0.0281	6.22	20	
Zinc	42.0	0.400	"	42.0	0.0461	20	
Selenium	ND	0.260	"	ND		20	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/02/24 13:44

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHG0093 - EPA 3050B

Matrix Spike (BHG0093-MS1)

Source: 2407031-01

Prepared: 07/03/24 Analyzed: 07/04/24

Arsenic	53.1	0.200	mg/kg dry	46.3	4.47	105	75-125
Barium	119	0.400	"	46.3	61.6	123	75-125
Cadmium	2.85	0.200	"	2.31	0.292	111	75-125
Copper	57.9	0.400	"	46.3	9.25	105	75-125
Lead	33.1	0.200	"	23.1	9.00	104	75-125
Nickel	59.8	0.400	"	46.3	10.5	107	75-125
Silver	2.52	0.0200	"	2.31	0.0281	108	75-125
Zinc	93.1	0.400	"	46.3	42.0	110	75-125
Selenium	4.98	0.260	"	4.63	ND	108	75-125

Matrix Spike Dup (BHG0093-MSD1)

Source: 2407031-01

Prepared: 07/03/24 Analyzed: 07/04/24

Arsenic	50.4	0.200	mg/kg dry	46.3	4.47	99.1	75-125	5.31	25
Barium	105	0.400	"	46.3	61.6	94.6	75-125	11.9	25
Cadmium	2.72	0.200	"	2.31	0.292	105	75-125	4.63	25
Copper	54.6	0.400	"	46.3	9.25	98.0	75-125	5.89	25
Lead	32.2	0.200	"	23.1	9.00	100	75-125	2.88	25
Nickel	56.1	0.400	"	46.3	10.5	98.5	75-125	6.38	25
Silver	2.33	0.0200	"	2.31	0.0281	99.4	75-125	7.94	25
Zinc	89.5	0.400	"	46.3	42.0	103	75-125	3.96	25
Selenium	4.60	0.260	"	4.63	ND	99.4	75-125	7.91	25

Post Spike (BHG0093-PS1)

Source: 2407031-01

Prepared: 07/03/24 Analyzed: 07/04/24

Arsenic	123		ug/l	100	9.65	114	75-125
Barium	248		"	100	133	115	75-125
Cadmium	6.25		"	5.00	0.631	112	75-125
Copper	130		"	100	20.0	110	75-125
Lead	74.8		"	50.0	19.4	111	75-125
Nickel	135		"	100	22.6	112	75-125
Silver	5.42		"	5.00	0.0607	107	75-125
Zinc	213		"	100	90.8	123	75-125
Selenium	12.4		"	10.0	0.225	122	75-125

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/02/24 13:44

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BHG0875 - EPA 3050B

Blank (BHG0875-BLK1)

Prepared: 07/30/24 Analyzed: 08/02/24

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 (BHG0875-BS1)

Prepared: 07/30/24 Analyzed: 08/02/24

Arsenic	36.7	0.200	mg/kg wet	37.3	98.3	80-120
Barium	35.3	0.400	"	37.3	94.5	80-120
Cadmium	1.79	0.200	"	1.87	95.8	80-120
Copper	37.2	0.400	"	37.3	99.7	80-120
Lead	17.2	0.200	"	18.7	92.4	80-120
Nickel	37.7	0.400	"	37.3	101	80-120
Silver	1.79	0.0200	"	1.87	95.9	80-120
Zinc	37.2	0.400	"	37.3	99.7	80-120
Selenium	3.76	0.260	"	3.73	101	80-120

Duplicate (BHG0875-DUP1)

Source: 2407031-01RE1

Prepared: 07/30/24 Analyzed: 08/02/24

Arsenic	3.41	0.200	mg/kg dry	3.57	4.67	20	QR-02
Barium	54.6	0.400	"	84.0	42.4	20	
Cadmium	0.183	0.200	"	0.191	4.33	20	
Copper	4.11	0.400	"	4.07	0.938	20	
Lead	8.10	0.200	"	8.23	1.60	20	
Nickel	4.82	0.400	"	4.80	0.461	20	
Silver	0.0126	0.0200	"	0.0119	5.63	20	
Zinc	19.2	0.400	"	19.1	0.526	20	
Selenium	ND	0.260	"	ND		20	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/02/24 13:44

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHG0875 - EPA 3050B

Matrix Spike (BHG0875-MS1)

Source: 2407031-01RE1

Prepared: 07/30/24 Analyzed: 08/02/24

Arsenic	43.1	0.200	mg/kg dry	42.5	3.57	92.8	75-125			
Barium	88.7	0.400	"	42.5	84.0	11.2	75-125			QM-07
Cadmium	1.95	0.200	"	2.13	0.191	82.7	75-125			
Copper	24.3	0.400	"	42.5	4.07	47.6	75-125			QM-05
Lead	27.6	0.200	"	21.3	8.23	91.0	75-125			
Nickel	25.3	0.400	"	42.5	4.80	48.2	75-125			QM-05
Silver	1.73	0.0200	"	2.13	0.0119	80.6	75-125			
Zinc	39.1	0.400	"	42.5	19.1	47.2	75-125			QM-05
Selenium	4.23	0.260	"	4.25	ND	99.5	75-125			

Matrix Spike Dup (BHG0875-MSD1)

Source: 2407031-01RE1

Prepared: 07/30/24 Analyzed: 08/02/24

Arsenic	41.9	0.180	mg/kg dry	41.6	3.57	92.0	75-125	2.76	25	
Barium	85.3	0.360	"	41.6	84.0	3.10	75-125	3.97	25	QM-07
Cadmium	1.89	0.180	"	2.08	0.191	81.4	75-125	3.41	25	
Copper	24.1	0.360	"	41.6	4.07	48.2	75-125	0.873	25	QM-05
Lead	26.4	0.180	"	20.8	8.23	87.1	75-125	4.57	25	
Nickel	25.1	0.360	"	41.6	4.80	48.7	75-125	0.881	25	QM-05
Silver	1.71	0.0180	"	2.08	0.0119	81.4	75-125	1.15	25	
Zinc	38.7	0.360	"	41.6	19.1	47.1	75-125	1.24	25	QM-05
Selenium	4.06	0.234	"	4.16	ND	97.4	75-125	4.29	25	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/02/24 13:44

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHG0107 - 3060A Mod

Blank (BHG0107-BLK1)

Prepared & Analyzed: 07/03/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHG0107-BS1)

Prepared & Analyzed: 07/03/24

Chromium, Hexavalent 25.9 0.30 mg/kg wet 25.0 104 80-120

Duplicate (BHG0107-DUP1)

Source: 2407020-01

Prepared & Analyzed: 07/03/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHG0107-MS1)

Source: 2407020-01

Prepared & Analyzed: 07/03/24

Chromium, Hexavalent 26.9 0.30 mg/kg dry 25.7 ND 105 75-125

Matrix Spike Dup (BHG0107-MSD1)

Source: 2407020-01

Prepared & Analyzed: 07/03/24

Chromium, Hexavalent 26.0 0.30 mg/kg dry 25.7 ND 101 75-125 3.50 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 - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/02/24 13:44

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

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

Batch BHG0089 - General Preparation

Blank (BHG0089-BLK1)

Prepared: 07/02/24 Analyzed: 07/03/24

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

LCS (BHG0089-BS1)

Prepared: 07/02/24 Analyzed: 07/03/24

Calcium	5.48	0.0500	mg/L wet	5.00	110	70-130
Magnesium	5.38	0.0500	"	5.00	108	70-130
Sodium	5.50	0.0500	"	5.00	110	70-130

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	Project: Noble - Farr T4N-R64W-S18 L01	
PO Box 1289	Project Number: [none]	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	08/02/24 13:44

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

Summit Scientific

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

Batch BHG0146 - General Preparation

Duplicate (BHG0146-DUP1)	Source: 2407024-31		Prepared & Analyzed: 07/08/24							
% Solids	97.7		%		97.4			0.267	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.

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/02/24 13:44

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

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

Batch BHG0091 - General Preparation

Blank (BHG0091-BLK1)

Prepared: 07/02/24 Analyzed: 07/08/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHG0091-BS1)

Prepared: 07/02/24 Analyzed: 07/08/24

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 103 95-105

Duplicate (BHG0091-DUP1)

Source: 2407020-01

Prepared: 07/02/24 Analyzed: 07/08/24

Specific Conductance (EC) 0.243 0.0100 mmhos/cm 0.247 1.84 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 - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/02/24 13:44

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

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

Batch BHG0090 - General Preparation

LCS (BHG0090-BS1)

Prepared: 07/02/24 Analyzed: 07/08/24

pH	9.16	pH Units	9.18	99.8	95-105
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Duplicate (BHG0090-DUP1)

Source: 2407020-01

Prepared: 07/02/24 Analyzed: 07/08/24

pH	8.82	pH Units	8.85	0.340	20
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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 - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/02/24 13:44

Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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.
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