

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

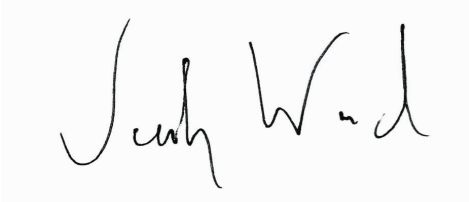
June 10, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds)
Work Order #2404065

Enclosed are the results of analyses for samples received by Summit Scientific on 04/04/24 17:23. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds)
Project Number: UWRWE-A3299-ABN
Project Manager: Paul Henchan

Reported:
06/10/24 13:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01@6.0"	2404065-01	Soil	04/03/24 00:00	04/04/24 17:23
BKG01@4.0'	2404065-02	Soil	04/03/24 00:00	04/04/24 17:23
BKG01@5.0'	2404065-03	Soil	04/03/24 00:00	04/04/24 17:23
BKG02@6.0"	2404065-04	Soil	04/03/24 00:00	04/04/24 17:23
BKG02@4.0'	2404065-05	Soil	04/03/24 00:00	04/04/24 17:23
BKG02@5.0'	2404065-06	Soil	04/03/24 00:00	04/04/24 17:23
BKG03@6.0"	2404065-07	Soil	04/03/24 00:00	04/04/24 17:23
BKG03@4.0'	2404065-08	Soil	04/03/24 00:00	04/04/24 17:23
BKG03@5.0'	2404065-09	Soil	04/03/24 00:00	04/04/24 17:23
BKG04@6.0"	2404065-10	Soil	04/03/24 00:00	04/04/24 17:23
BKG04@4.0'	2404065-11	Soil	04/03/24 00:00	04/04/24 17:23
BKG04@5.0'	2404065-12	Soil	04/03/24 00:00	04/04/24 17:23
BKG05@6.0"	2404065-13	Soil	04/03/24 00:00	04/04/24 17:23
BKG05@4.0'	2404065-14	Soil	04/03/24 00:00	04/04/24 17:23
BKG05@5.0'	2404065-15	Soil	04/03/24 00:00	04/04/24 17:23

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

Lab ID	Page <u>1</u> of <u>1</u>
2404065	

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>jeff@fremontenv.com Ethanh@fremontenv.com</u>	AFE#:	
Phone:	Project Name: <u>UPV TSN-R63U-SS LOVUPV S-SHG (B...</u>	PO/Billing Codes: <u>UWRWE-AJ299-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	EC, pH, SAR, Baran	Metals (915)				
1	BK601@6.0"	4/3/24		1			X			X			X	X				
2	BK601@4.0'																	
3	BK601@5.0'																	
4	BK602@6.0"																	
5	BK602@4.0'																	
6	BK602@5.0'																	
7	BK603@6.0"																	
8	BK603@4.0'																	
9	BK603@5.0'																	
10	BK604@6.0"																	
11	BK604@4.0'																	
12	BK604@5.0'																	
13	BK605@6.0"																	
14	BK605@4.0'																	
15	BK605@5.0'																	

Relinquished by: <u>[Signature]</u>	Date/Time: <u>4/4/24</u>	Received by: <u>[Signature]</u>	Date/Time: <u>4/4/24 17:23</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: <u>23.7</u>	Corrected Temperature	IR gun #: <u>2</u>	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2404065

Client: Fremont

Client Project ID: Noble - UPV 55N - R63W - S5 L01 / UPV 5-5H3 (Backgrounds)

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

Airbill #: _____

Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C)

23.7

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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input type="checkbox"/>	<input checked="" 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.				

AS

Custodian Printed Name

4/9/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds

Project Number: UWRWE-A3299-ABN
Project Manager: Paul Henchan

Reported:
06/10/24 13:05

BKG01@6.0"
2404065-01 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0403	04/12/24	04/30/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.65	0.200	mg/kg dry	1	BHD0680	04/19/24	05/10/24	EPA 6020B	
Barium	36.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.63	0.400	"	"	"	"	"	"	
Lead	4.01	0.200	"	"	"	"	"	"	
Nickel	3.03	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.95	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0516	04/16/24	04/17/24	EPA 7196A	

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

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	40.8	0.0500	mg/L dry	1	BHD0705	04/20/24	05/17/24	EPA 6020B	
Magnesium	8.45	0.0500	"	"	"	"	"	"	
Sodium	1.31	0.0500	"	"	"	"	"	"	

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Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds)
Project Number: UWRWE-A3299-ABN
Project Manager: Paul Henchan

Reported:
06/10/24 13:05

BKG01@6.0"
2404065-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0488	0.00100	units	1	BHE0617	05/20/24	05/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.3		%	1	BHD0358	04/11/24	04/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.160	0.0100	mmhos/cm	1	BHD0710	04/20/24	04/22/24	EPA 120.1	

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

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.71		pH Units	1	BHD0709	04/20/24	04/22/24	EPA 9045D	

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Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds

Project Number: UWRWE-A3299-ABN
Project Manager: Paul Henchan

Reported:
06/10/24 13:05

BKG01@4.0'
2404065-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0403	04/12/24	04/30/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	41.1	0.360	mg/kg dry	1	BHD0680	04/19/24	05/10/24	EPA 6020B	
Cadmium	ND	0.180	"	"	"	"	"	"	
Copper	3.00	0.360	"	"	"	"	"	"	
Lead	3.64	0.180	"	"	"	"	"	"	
Nickel	2.93	0.360	"	"	"	"	"	"	
Silver	ND	0.0180	"	"	"	"	"	"	
Zinc	9.35	0.360	"	"	"	"	"	"	
Selenium	ND	0.234	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0516	04/16/24	04/17/24	EPA 7196A	

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

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	42.6	0.0500	mg/L dry	1	BHD0705	04/20/24	05/17/24	EPA 6020B	
Magnesium	5.94	0.0500	"	"	"	"	"	"	
Sodium	1.51	0.0500	"	"	"	"	"	"	

Calculated Analysis

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds

Project Number: UWRWE-A3299-ABN
 Project Manager: Paul Henchan

Reported:
 06/10/24 13:05

BKG01@4.0'
2404065-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0574	0.00100	units	1	BHE0617	05/20/24	05/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.7		%	1	BHD0358	04/11/24	04/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.128	0.0100	mmhos/cm	1	BHD0710	04/20/24	04/22/24	EPA 120.1	

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Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds)
 Project Number: UWRWE-A3299-ABN
 Project Manager: Paul Henchan

Reported:
 06/10/24 13:05

BKG01@4.0'
2404065-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.05	0.179	mg/kg dry	1	BHE0700	04/19/24	06/03/24	EPA 6020B	


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

I-04

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.55		pH Units	1	BHE0693	05/22/24	05/23/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds

Project Number: UWRWE-A3299-ABN
Project Manager: Paul Henchan

Reported:
06/10/24 13:05

BKG01@5.0'
2404065-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0403	04/12/24	04/30/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	35.7	0.400	mg/kg dry	1	BHD0680	04/19/24	05/10/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.45	0.400	"	"	"	"	"	"	
Lead	2.97	0.200	"	"	"	"	"	"	
Nickel	2.52	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	7.56	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0516	04/16/24	04/17/24	EPA 7196A	

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

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	178	0.0500	mg/L dry	1	BHD0705	04/20/24	05/17/24	EPA 6020B	
Magnesium	5.94	0.0500	"	"	"	"	"	"	
Sodium	1.77	0.0500	"	"	"	"	"	"	

Calculated Analysis

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 PO Box 1289
 Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds

Project Number: UWRWE-A3299-ABN
 Project Manager: Paul Henchan

Reported:
 06/10/24 13:05

BKG01@5.0'
2404065-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0356	0.00100	units	1	BHE0617	05/20/24	05/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.9		%	1	BHD0358	04/11/24	04/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	8.54	0.0100	mmhos/cm	1	BHD0710	04/20/24	04/22/24	EPA 120.1	

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 Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds)

Project Number: UWRWE-A3299-ABN
 Project Manager: Paul Henchan

Reported:
 06/10/24 13:05

BKG01@5.0'
2404065-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.49	0.200	mg/kg dry	1	BHE0700	04/19/24	06/03/24	EPA 6020B	


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

I-04

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.99		pH Units	1	BHE0693	05/22/24	05/23/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds

Project Number: UWRWE-A3299-ABN
Project Manager: Paul Henchan

Reported:
06/10/24 13:05

BKG02@6.0"
2404065-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0403	04/12/24	04/30/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.73	0.200	mg/kg dry	1	BHD0680	04/19/24	05/10/24	EPA 6020B	
Barium	40.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.19	0.400	"	"	"	"	"	"	
Lead	4.21	0.200	"	"	"	"	"	"	
Nickel	3.53	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	10.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0516	04/16/24	04/17/24	EPA 7196A	

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

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	54.0	0.0500	mg/L dry	1	BHD0705	04/20/24	05/17/24	EPA 6020B	
Magnesium	9.19	0.0500	"	"	"	"	"	"	
Sodium	0.995	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds)
Project Number: UWRWE-A3299-ABN
Project Manager: Paul Henchan

Reported:
06/10/24 13:05

BKG02@6.0"
2404065-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0329	0.00100	units	1	BHE0617	05/20/24	05/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.0		%	1	BHD0358	04/11/24	04/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0822	0.0100	mmhos/cm	1	BHD0710	04/20/24	04/22/24	EPA 120.1	

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

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.63		pH Units	1	BHD0709	04/20/24	04/22/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds)

Project Number: UWRWE-A3299-ABN
Project Manager: Paul Henchan

Reported:
06/10/24 13:05

BKG02@4.0'
2404065-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0403	04/12/24	04/30/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.31	0.200	mg/kg dry	1	BHD0680	04/19/24	05/10/24	EPA 6020B	
Barium	68.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.06	0.400	"	"	"	"	"	"	
Lead	3.93	0.200	"	"	"	"	"	"	
Nickel	3.23	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.64	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0516	04/16/24	04/17/24	EPA 7196A	

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

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	66.8	0.0500	mg/L dry	1	BHD0705	04/20/24	05/17/24	EPA 6020B	
Magnesium	4.29	0.0500	"	"	"	"	"	"	
Sodium	3.62	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds)
 Project Number: UWRWE-A3299-ABN
 Project Manager: Paul Henchan

Reported:
 06/10/24 13:05

BKG02@4.0'
2404065-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.116	0.00100	units	1	BHE0617	05/20/24	05/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.9		%	1	BHD0358	04/11/24	04/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.232	0.0100	mmhos/cm	1	BHD0710	04/20/24	04/22/24	EPA 120.1	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds

Project Number: UWRWE-A3299-ABN
 Project Manager: Paul Henchan

Reported:
 06/10/24 13:05

BKG02@4.0'
2404065-05 (Soil)

Summit Scientific


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

I-04

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.68		pH Units	1	BHE0693	05/22/24	05/23/24	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds

Project Number: UWRWE-A3299-ABN
Project Manager: Paul Henchan

Reported:
06/10/24 13:05

BKG02@5.0'
2404065-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0403	04/12/24	04/30/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.72	0.200	mg/kg dry	1	BHD0680	04/19/24	05/10/24	EPA 6020B	
Barium	30.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.59	0.400	"	"	"	"	"	"	
Lead	3.65	0.200	"	"	"	"	"	"	
Nickel	3.02	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	8.81	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0516	04/16/24	04/17/24	EPA 7196A	

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

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	302	0.0500	mg/L dry	1	BHD0705	04/20/24	05/17/24	EPA 6020B	
Magnesium	20.6	0.0500	"	"	"	"	"	"	
Sodium	3.84	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds

Project Number: UWRWE-A3299-ABN
 Project Manager: Paul Henchan

Reported:
 06/10/24 13:05

BKG02@5.0'
2404065-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0577	0.00100	units	1	BHE0617	05/20/24	05/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.5		%	1	BHD0358	04/11/24	04/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.119	0.0100	mmhos/cm	1	BHD0710	04/20/24	04/22/24	EPA 120.1	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds

Project Number: UWRWE-A3299-ABN
 Project Manager: Paul Henchan

Reported:
 06/10/24 13:05

BKG02@5.0'
2404065-06 (Soil)

Summit Scientific


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

I-04

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	9.06		pH Units	1	BHE0693	05/22/24	05/23/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds

Project Number: UWRWE-A3299-ABN
Project Manager: Paul Henchan

Reported:
06/10/24 13:05

BKG03@6.0"
2404065-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0403	04/12/24	04/30/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	31.5	0.400	mg/kg dry	1	BHD0680	04/19/24	05/10/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.29	0.400	"	"	"	"	"	"	
Lead	3.45	0.200	"	"	"	"	"	"	
Nickel	2.66	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.53	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0516	04/16/24	04/17/24	EPA 7196A	

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

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	79.2	0.0500	mg/L dry	1	BHD0705	04/20/24	05/17/24	EPA 6020B	
Magnesium	14.1	0.0500	"	"	"	"	"	"	
Sodium	0.781	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds)

Project Number: UWRWE-A3299-ABN
 Project Manager: Paul Henchan

Reported:
 06/10/24 13:05

BKG03@6.0"
2404065-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0212	0.00100	units	1	BHE0617	05/20/24	05/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/03/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.8		%	1	BHD0358	04/11/24	04/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0781	0.0100	mmhos/cm	1	BHD0710	04/20/24	04/22/24	EPA 120.1	

Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds)
 Project Number: UWRWE-A3299-ABN
 Project Manager: Paul Henchan

Reported:
 06/10/24 13:05

BKG03@6.0"
2404065-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.68	0.200	mg/kg dry	1	BHE0700	04/19/24	06/03/24	EPA 6020B	


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

I-04

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.08		pH Units	1	BHE0693	05/22/24	05/23/24	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds

Project Number: UWRWE-A3299-ABN
Project Manager: Paul Henchan

Reported:
06/10/24 13:05

BKG03@4.0'
2404065-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0403	04/12/24	04/30/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	85.9	0.400	mg/kg dry	1	BHD0680	04/19/24	05/10/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.57	0.400	"	"	"	"	"	"	
Lead	3.39	0.200	"	"	"	"	"	"	
Nickel	2.75	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	8.71	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0516	04/16/24	04/17/24	EPA 7196A	

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

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	76.0	0.0500	mg/L dry	1	BHD0705	04/20/24	05/17/24	EPA 6020B	
Magnesium	3.78	0.0500	"	"	"	"	"	"	
Sodium	2.19	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds

Project Number: UWRWE-A3299-ABN
Project Manager: Paul Henchan

Reported:
06/10/24 13:05

BKG03@4.0'
2404065-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0665	0.00100	units	1	BHE0617	05/20/24	05/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.3		%	1	BHD0358	04/11/24	04/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.128	0.0100	mmhos/cm	1	BHD0710	04/20/24	04/22/24	EPA 120.1	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds)
 Project Number: UWRWE-A3299-ABN
 Project Manager: Paul Henchan

Reported:
 06/10/24 13:05

BKG03@4.0'
2404065-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.05	0.200	mg/kg dry	1	BHE0700	04/19/24	06/03/24	EPA 6020B	


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

I-04

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.91		pH Units	1	BHE0693	05/22/24	05/23/24	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds

Project Number: UWRWE-A3299-ABN
Project Manager: Paul Henchan

Reported:
06/10/24 13:05

BKG03@5.0'
2404065-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0403	04/12/24	04/30/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	6.38	0.179	mg/kg dry	1	BHD0680	04/19/24	05/10/24	EPA 6020B	
Barium	82.3	0.357	"	"	"	"	"	"	
Cadmium	ND	0.179	"	"	"	"	"	"	
Copper	4.02	0.357	"	"	"	"	"	"	
Lead	3.80	0.179	"	"	"	"	"	"	
Nickel	3.93	0.357	"	"	"	"	"	"	
Silver	ND	0.0179	"	"	"	"	"	"	
Zinc	11.7	0.357	"	"	"	"	"	"	
Selenium	ND	0.232	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0516	04/16/24	04/17/24	EPA 7196A	

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

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	122	0.0500	mg/L dry	1	BHD0705	04/20/24	05/17/24	EPA 6020B	
Magnesium	7.30	0.0500	"	"	"	"	"	"	
Sodium	2.29	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds

Project Number: UWRWE-A3299-ABN
 Project Manager: Paul Henchan

Reported:
 06/10/24 13:05

BKG03@5.0'
2404065-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0545	0.00100	units	1	BHE0617	05/20/24	05/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.8		%	1	BHD0358	04/11/24	04/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.107	0.0100	mmhos/cm	1	BHD0710	04/20/24	04/22/24	EPA 120.1	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds)

Project Number: UWRWE-A3299-ABN
 Project Manager: Paul Henchan

Reported:
 06/10/24 13:05

BKG03@5.0'
2404065-09 (Soil)

Summit Scientific


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

I-04

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	9.04		pH Units	1	BHE0693	05/22/24	05/23/24	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds

Project Number: UWRWE-A3299-ABN
Project Manager: Paul Henchan

Reported:
06/10/24 13:05

BKG04@6.0"
2404065-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0403	04/12/24	04/30/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	32.4	0.400	mg/kg dry	1	BHD0680	04/19/24	05/10/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.65	0.400	"	"	"	"	"	"	
Lead	3.70	0.200	"	"	"	"	"	"	
Nickel	2.30	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.05	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0516	04/16/24	04/17/24	EPA 7196A	

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

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	83.6	0.0500	mg/L dry	1	BHD0705	04/20/24	05/17/24	EPA 6020B	
Magnesium	14.5	0.0500	"	"	"	"	"	"	
Sodium	0.774	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds)

Project Number: UWRWE-A3299-ABN
 Project Manager: Paul Henchan

Reported:
 06/10/24 13:05

BKG04@6.0"
2404065-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0206	0.00100	units	1	BHE0617	05/20/24	05/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.9		%	1	BHD0358	04/11/24	04/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0400	0.0100	mmhos/cm	1	BHD0710	04/20/24	04/22/24	EPA 120.1	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds)
 Project Number: UWRWE-A3299-ABN
 Project Manager: Paul Henchan

Reported:
 06/10/24 13:05

BKG04@6.0"
2404065-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.66	0.200	mg/kg dry	1	BHE0700	04/19/24	06/03/24	EPA 6020B	


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

I-04

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	6.02		pH Units	1	BHE0693	05/22/24	05/23/24	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds)

Project Number: UWRWE-A3299-ABN
Project Manager: Paul Henchan

Reported:
06/10/24 13:05

BKG04@4.0'
2404065-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0403	04/12/24	04/30/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	36.2	0.400	mg/kg dry	1	BHD0680	04/19/24	05/10/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.02	0.400	"	"	"	"	"	"	
Lead	3.28	0.200	"	"	"	"	"	"	
Nickel	2.11	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	7.98	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0516	04/16/24	04/17/24	EPA 7196A	

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

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	36.1	0.0500	mg/L dry	1	BHD0705	04/20/24	05/17/24	EPA 6020B	
Magnesium	6.57	0.0500	"	"	"	"	"	"	
Sodium	1.31	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds)
Project Number: UWRWE-A3299-ABN
Project Manager: Paul Henchan

Reported:
06/10/24 13:05

BKG04@4.0'
2404065-11 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0527	0.00100	units	1	BHE0617	05/20/24	05/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.2		%	1	BHD0358	04/11/24	04/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0220	0.0100	mmhos/cm	1	BHD0710	04/20/24	04/22/24	EPA 120.1	

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

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.41		pH Units	1	BHD0709	04/20/24	04/22/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds

Project Number: UWRWE-A3299-ABN
 Project Manager: Paul Henchan

Reported:
 06/10/24 13:05

BKG04@4.0'
2404065-11 (Soil)


Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.21	0.200	mg/kg dry	1	BHE0700	04/19/24	06/03/24	EPA 6020B	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds

Project Number: UWRWE-A3299-ABN
Project Manager: Paul Henchan

Reported:
06/10/24 13:05

BKG04@5.0'
2404065-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0403	04/12/24	04/30/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.00	0.200	mg/kg dry	1	BHD0680	04/19/24	05/10/24	EPA 6020B	
Barium	31.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.85	0.400	"	"	"	"	"	"	
Lead	2.36	0.200	"	"	"	"	"	"	
Nickel	1.88	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	7.27	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0516	04/16/24	04/17/24	EPA 7196A	

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

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	34.0	0.0500	mg/L dry	1	BHD0705	04/20/24	05/17/24	EPA 6020B	
Magnesium	6.42	0.0500	"	"	"	"	"	"	
Sodium	1.85	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds)
Project Number: UWRWE-A3299-ABN
Project Manager: Paul Henchan

Reported:
06/10/24 13:05

BKG04@5.0'
2404065-12 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0763	0.00100	units	1	BHE0617	05/20/24	05/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.2		%	1	BHD0358	04/11/24	04/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0257	0.0100	mmhos/cm	1	BHD0710	04/20/24	04/22/24	EPA 120.1	

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

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.64		pH Units	1	BHD0709	04/20/24	04/22/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds)

Project Number: UWRWE-A3299-ABN
Project Manager: Paul Henchan

Reported:
06/10/24 13:05

BKG05@6.0"
2404065-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0403	04/12/24	04/30/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.81	0.200	mg/kg dry	1	BHD0680	04/19/24	05/10/24	EPA 6020B	
Barium	33.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.95	0.400	"	"	"	"	"	"	
Lead	4.06	0.200	"	"	"	"	"	"	
Nickel	2.29	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.75	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0516	04/16/24	04/17/24	EPA 7196A	

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

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	43.7	0.0500	mg/L dry	1	BHD0705	04/20/24	05/17/24	EPA 6020B	
Magnesium	7.96	0.0500	"	"	"	"	"	"	
Sodium	0.515	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds)
Project Number: UWRWE-A3299-ABN
Project Manager: Paul Henchan

Reported:
06/10/24 13:05

BKG05@6.0"
2404065-13 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0188	0.00100	units	1	BHE0617	05/20/24	05/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.2		%	1	BHD0358	04/11/24	04/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0231	0.0100	mmhos/cm	1	BHD0710	04/20/24	04/22/24	EPA 120.1	

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

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	5.89		pH Units	1	BHD0709	04/20/24	04/22/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds

Project Number: UWRWE-A3299-ABN
Project Manager: Paul Henchan

Reported:
06/10/24 13:05

BKG05@4.0'
2404065-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0403	04/12/24	04/30/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	28.5	0.400	mg/kg dry	1	BHD0680	04/19/24	05/10/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.86	0.400	"	"	"	"	"	"	
Lead	2.04	0.200	"	"	"	"	"	"	
Nickel	1.88	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	6.41	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0516	04/16/24	04/17/24	EPA 7196A	

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

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	39.0	0.0500	mg/L dry	1	BHD0705	04/20/24	05/17/24	EPA 6020B	
Magnesium	7.67	0.0500	"	"	"	"	"	"	
Sodium	0.513	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds)
Project Number: UWRWE-A3299-ABN
Project Manager: Paul Henchan

Reported:
06/10/24 13:05

BKG05@4.0'
2404065-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0197	0.00100	units	1	BHE0617	05/20/24	05/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.5		%	1	BHD0358	04/11/24	04/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0155	0.0100	mmhos/cm	1	BHD0710	04/20/24	04/22/24	EPA 120.1	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds)

Project Number: UWRWE-A3299-ABN
 Project Manager: Paul Henchan

Reported:
 06/10/24 13:05

BKG05@4.0'
2404065-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.50	0.200	mg/kg dry	1	BHE0700	04/19/24	06/03/24	EPA 6020B	


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

I-04

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.72		pH Units	1	BHE0693	05/22/24	05/23/24	EPA 9045D	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds

Project Number: UWRWE-A3299-ABN
Project Manager: Paul Henchan

Reported:
06/10/24 13:05

BKG05@5.0'
2404065-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0403	04/12/24	04/30/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.0168	0.00197	mg/kg dry	1	BHD0680	04/19/24	05/10/24	EPA 6020B	
Barium	0.237	0.00394	"	"	"	"	"	"	
Cadmium	ND	0.00197	"	"	"	"	"	"	
Copper	0.0178	0.00394	"	"	"	"	"	"	
Lead	0.0219	0.00197	"	"	"	"	"	"	
Nickel	0.0151	0.00394	"	"	"	"	"	"	
Silver	ND	0.000197	"	"	"	"	"	"	
Zinc	0.0632	0.00394	"	"	"	"	"	"	
Selenium	ND	0.00256	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0516	04/16/24	04/17/24	EPA 7196A	

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

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	49.3	0.0500	mg/L dry	1	BHD0705	04/20/24	05/17/24	EPA 6020B	
Magnesium	10.1	0.0500	"	"	"	"	"	"	
Sodium	0.694	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds

Project Number: UWRWE-A3299-ABN
 Project Manager: Paul Henchan

Reported:
 06/10/24 13:05

BKG05@5.0'
2404065-15 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0235	0.00100	units	1	BHE0617	05/20/24	05/20/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.7		%	1	BHD0358	04/11/24	04/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0171	0.0100	mmhos/cm	1	BHD0710	04/20/24	04/22/24	EPA 120.1	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds

Project Number: UWRWE-A3299-ABN
 Project Manager: Paul Henchan

Reported:
 06/10/24 13:05

BKG05@5.0'
2404065-15 (Soil)

Summit Scientific


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

I-04

Date Sampled: **04/03/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.81		pH Units	1	BHE0693	05/22/24	05/23/24	EPA 9045D	

Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds)

Project Number: UWRWE-A3299-ABN
 Project Manager: Paul Henchan

Reported:
 06/10/24 13:05

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


Summit Scientific

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

Batch BHD0403 - EPA 3050B

Blank (BHD0403-BLK1)				Prepared: 04/12/24 Analyzed: 04/30/24							
Boron	ND	2.00	mg/L								
LCS (BHD0403-BS1)				Prepared: 04/12/24 Analyzed: 04/30/24							
Boron	4.45	2.00	mg/L	5.00	89.1	80-120					
Duplicate (BHD0403-DUP1)				Source: 2404065-01 Prepared: 04/12/24 Analyzed: 04/30/24							
Boron	0.182	2.00	mg/L	0.213			15.7	20			
Matrix Spike (BHD0403-MS1)				Source: 2404065-01 Prepared: 04/12/24 Analyzed: 04/30/24							
Boron	4.91	2.00	mg/L	4.98	0.213	94.3	75-125				
Matrix Spike Dup (BHD0403-MSD1)				Source: 2404065-01 Prepared: 04/12/24 Analyzed: 04/30/24							
Boron	5.13	2.00	mg/L	4.98	0.213	98.6	75-125	4.32	25		

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds)

Project Number: UWRWE-A3299-ABN
 Project Manager: Paul Henchan

Reported:
 06/10/24 13:05

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 BHD0680 - EPA 3050B

Blank (BHD0680-BLK1)

Prepared: 04/19/24 Analyzed: 05/10/24

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 (BHD0680-BS1)

Prepared: 04/19/24 Analyzed: 05/10/24

Arsenic	43.0	0.200	mg/kg wet	40.0	107	80-120
Barium	37.8	0.400	"	40.0	94.5	80-120
Cadmium	1.90	0.200	"	2.00	95.2	80-120
Copper	42.4	0.400	"	40.0	106	80-120
Lead	19.5	0.200	"	20.0	97.7	80-120
Nickel	42.0	0.400	"	40.0	105	80-120
Silver	1.94	0.0200	"	2.00	97.1	80-120
Zinc	39.5	0.400	"	40.0	98.8	80-120
Selenium	4.26	0.260	"	4.00	107	80-120

Duplicate (BHD0680-DUP1)

Source: 2404058-01

Prepared: 04/19/24 Analyzed: 05/10/24

Arsenic	1.08	0.200	mg/kg dry	1.03	4.60	20
Barium	33.9	0.400	"	33.5	1.18	20
Cadmium	0.0680	0.200	"	0.0708	4.10	20
Copper	2.60	0.400	"	2.54	2.35	20
Lead	2.86	0.200	"	2.81	1.85	20
Nickel	2.43	0.400	"	2.33	4.17	20
Silver	0.0140	0.0200	"	0.0141	0.546	20
Zinc	7.68	0.400	"	7.27	5.51	20
Selenium	ND	0.260	"	ND		20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds

Project Number: UWRWE-A3299-ABN
Project Manager: Paul Henchan

Reported:
06/10/24 13:05

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 BHD0680 - EPA 3050B

Matrix Spike (BHD0680-MS1)

Source: 2404058-01

Prepared: 04/19/24 Analyzed: 05/10/24

Arsenic	42.9	0.200	mg/kg dry	39.0	1.03	107	75-125			
Barium	66.0	0.400	"	39.0	33.5	83.2	75-125			
Cadmium	2.00	0.200	"	1.95	0.0708	98.7	75-125			
Copper	43.6	0.400	"	39.0	2.54	105	75-125			
Lead	21.9	0.200	"	19.5	2.81	97.9	75-125			
Nickel	43.2	0.400	"	39.0	2.33	105	75-125			
Silver	1.93	0.0200	"	1.95	0.0141	98.3	75-125			
Zinc	39.5	0.400	"	39.0	7.27	82.7	75-125			
Selenium	4.07	0.260	"	3.90	ND	104	75-125			

Matrix Spike Dup (BHD0680-MSD1)

Source: 2404058-01

Prepared: 04/19/24 Analyzed: 05/10/24

Arsenic	43.1	0.200	mg/kg dry	39.0	1.03	108	75-125	0.437	25
Barium	65.7	0.400	"	39.0	33.5	82.6	75-125	0.385	25
Cadmium	1.99	0.200	"	1.95	0.0708	98.4	75-125	0.274	25
Copper	43.7	0.400	"	39.0	2.54	105	75-125	0.157	25
Lead	21.9	0.200	"	19.5	2.81	97.6	75-125	0.250	25
Nickel	43.3	0.400	"	39.0	2.33	105	75-125	0.122	25
Silver	1.92	0.0200	"	1.95	0.0141	97.8	75-125	0.527	25
Zinc	38.5	0.400	"	39.0	7.27	80.0	75-125	2.70	25
Selenium	3.93	0.260	"	3.90	ND	101	75-125	3.51	25

Batch BHE0700 - EPA 3050B

Blank (BHE0700-BLK1)

Prepared: 05/22/24 Analyzed: 06/03/24

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	"						

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds

Project Number: UWRWE-A3299-ABN
Project Manager: Paul Henchan

Reported:
06/10/24 13:05

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHE0700 - EPA 3050B

LCS (BHE0700-BS1)

Prepared: 05/22/24 Analyzed: 06/03/24

Arsenic	38.9	0.200	mg/kg wet	38.8	100	80-120			
Barium	39.2	0.400	"	38.8	101	80-120			
Cadmium	1.90	0.200	"	1.94	97.9	80-120			
Copper	38.9	0.400	"	38.8	100	80-120			
Lead	19.0	0.200	"	19.4	97.9	80-120			
Nickel	39.1	0.400	"	38.8	101	80-120			
Silver	1.89	0.0200	"	1.94	97.7	80-120			
Zinc	38.4	0.400	"	38.8	99.0	80-120			
Selenium	3.72	0.260	"	3.88	96.0	80-120			

Duplicate (BHE0700-DUP1)

Source: 2404065-01RE1

Prepared: 05/22/24 Analyzed: 06/03/24

Arsenic	1.61	0.200	mg/kg dry	1.53	5.49	20			
Barium	31.4	0.400	"	32.3	3.05	20			
Cadmium	0.122	0.200	"	0.123	0.235	20			
Copper	3.52	0.400	"	3.42	2.88	20			
Lead	3.92	0.200	"	3.93	0.394	20			
Nickel	2.92	0.400	"	2.86	2.04	20			
Silver	0.0126	0.0200	"	0.0125	0.791	20			
Zinc	12.9	0.400	"	12.6	2.49	20			
Selenium	ND	0.260	"	ND		20			

Matrix Spike (BHE0700-MS1)

Source: 2404065-01RE1

Prepared: 05/22/24 Analyzed: 06/03/24

Arsenic	39.3	0.181	mg/kg dry	38.4	1.53	98.3	75-125		
Barium	71.1	0.362	"	38.4	32.3	101	75-125		
Cadmium	2.02	0.181	"	1.92	0.123	99.0	75-125		
Copper	41.7	0.362	"	38.4	3.42	99.6	75-125		
Lead	22.3	0.181	"	19.2	3.93	95.5	75-125		
Nickel	41.7	0.362	"	38.4	2.86	101	75-125		
Silver	1.82	0.0181	"	1.92	0.0125	94.1	75-125		
Zinc	51.8	0.362	"	38.4	12.6	102	75-125		
Selenium	3.25	0.236	"	3.84	ND	84.5	75-125		

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds)

Project Number: UWRWE-A3299-ABN
 Project Manager: Paul Henchan

Reported:
 06/10/24 13:05

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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


Batch BHE0700 - EPA 3050B

Matrix Spike Dup (BHE0700-MSD1)

Source: 2404065-01RE1 Prepared: 05/22/24 Analyzed: 06/03/24

Analyte	Result	Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit
Arsenic	39.4	0.181	mg/kg dry	38.4	1.53	98.6	75-125	0.292	25
Barium	71.7	0.362	"	38.4	32.3	102	75-125	0.754	25
Cadmium	2.04	0.181	"	1.92	0.123	100	75-125	0.906	25
Copper	41.7	0.362	"	38.4	3.42	99.8	75-125	0.167	25
Lead	22.5	0.181	"	19.2	3.93	96.9	75-125	1.17	25
Nickel	41.5	0.362	"	38.4	2.86	101	75-125	0.268	25
Silver	1.83	0.0181	"	1.92	0.0125	94.8	75-125	0.652	25
Zinc	51.7	0.362	"	38.4	12.6	102	75-125	0.206	25
Selenium	3.24	0.236	"	3.84	ND	84.4	75-125	0.201	25

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds)

Project Number: UWRWE-A3299-ABN
Project Manager: Paul Henchan

Reported:
06/10/24 13:05

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 BHD0516 - 3060A Mod

Blank (BHD0516-BLK1)

Prepared: 04/16/24 Analyzed: 04/17/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHD0516-BS1)

Prepared: 04/16/24 Analyzed: 04/17/24

Chromium, Hexavalent 24.8 0.30 mg/kg wet 25.0 99.0 80-120

Duplicate (BHD0516-DUP1)

Source: 2404065-01

Prepared: 04/16/24 Analyzed: 04/17/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHD0516-MS1)

Source: 2404065-01

Prepared: 04/16/24 Analyzed: 04/17/24

Chromium, Hexavalent 24.8 0.30 mg/kg dry 26.5 ND 93.4 75-125

Matrix Spike Dup (BHD0516-MSD1)

Source: 2404065-01

Prepared: 04/16/24 Analyzed: 04/17/24

Chromium, Hexavalent 24.8 0.30 mg/kg dry 26.5 ND 93.6 75-125 0.214 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds)

Project Number: UWRWE-A3299-ABN
 Project Manager: Paul Henchan

Reported:
 06/10/24 13:05

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 BHD0705 - General Preparation

Blank (BHD0705-BLK1)

Prepared: 04/20/24 Analyzed: 05/17/24


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

LCS (BHD0705-BS1)

Prepared: 04/20/24 Analyzed: 05/17/24

Calcium	5.33	0.0500	mg/L wet	5.00		107	70-130			
Magnesium	5.43	0.0500	"	5.00		109	70-130			
Sodium	5.54	0.0500	"	5.00		111	70-130			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds)

Project Number: UWRWE-A3299-ABN
 Project Manager: Paul Henchan

Reported:
 06/10/24 13:05

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

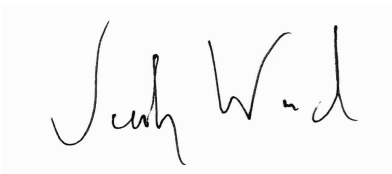
Summit Scientific

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

Batch BHD0358 - General Preparation

Duplicate (BHD0358-DUP1)	Source: 2404052-01	Prepared: 04/11/24	Analyzed: 04/12/24
% Solids	87.7	%	87.6
			0.0341
			20

Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds)

Project Number: UWRWE-A3299-ABN
 Project Manager: Paul Henchan

Reported:
 06/10/24 13:05

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 BHD0710 - General Preparation

Blank (BHD0710-BLK1)

Prepared: 04/20/24 Analyzed: 04/22/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHD0710-BS1)

Prepared: 04/20/24 Analyzed: 04/22/24

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

Duplicate (BHD0710-DUP1)

Source: 2404065-01

Prepared: 04/20/24 Analyzed: 04/22/24

Specific Conductance (EC) 0.157 0.0100 mmhos/cm 0.160 1.58 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds)
 Project Number: UWRWE-A3299-ABN
 Project Manager: Paul Henchan

Reported:
 06/10/24 13:05

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

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


Batch BHD0709 - General Preparation

LCS (BHD0709-BS1)											
						Prepared: 04/20/24 Analyzed: 04/22/24					
pH	9.11		pH Units	9.18	99.2	95-105					
Duplicate (BHD0709-DUP1)											
						Source: 2404065-01 Prepared: 04/20/24 Analyzed: 04/22/24					
pH	6.66		pH Units	6.71	0.748	20					

Batch BHE0693 - General Preparation

LCS (BHE0693-BS1)											
						Prepared: 05/22/24 Analyzed: 05/23/24					
pH	9.24		pH Units	9.18	101	95-105					
Duplicate (BHE0693-DUP1)											
						Source: 2404065-01RE1 Prepared: 05/22/24 Analyzed: 05/23/24					
pH	7.08		pH Units	7.06	0.283	20					

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPV T5N-R63W-S5 L01/UPV 5-5H3 (Backgrounds

Project Number: UWRWE-A3299-ABN
Project Manager: Paul Henchan

Reported:
06/10/24 13:05

Notes and Definitions

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