

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 22, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

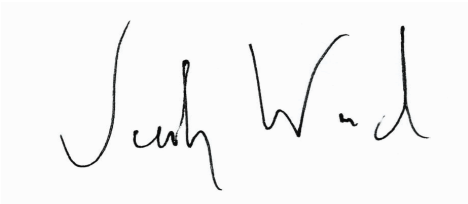
Wellington, CO 80549

RE: Hanson BC 0-64N67W 1NESE (Backgrounds)

Work Order #2402287

Enclosed are the results of analyses for samples received by Summit Scientific on 02/15/24 13:25. 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 Ben Shrewsbury

Laboratory Manager



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W 1NESE (Backgrounds)

Project Number: UWRWE-A2137-ABN

Project Manager: Paul Henchan

Reported:
04/22/24 09:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01@5.0'	2402287-01	Soil	02/15/24 00:00	02/15/24 13:25
BKG01@4.0'	2402287-02	Soil	02/15/24 00:00	02/15/24 13:25
BKG02@5.0'	2402287-03	Soil	02/15/24 00:00	02/15/24 13:25
BKG02@4.0'	2402287-04	Soil	02/15/24 00:00	02/15/24 13:25
BKG03@5.0'	2402287-05	Soil	02/15/24 00:00	02/15/24 13:25
BKG03@4.0'	2402287-06	Soil	02/15/24 00:00	02/15/24 13:25
BKG04@5.0'	2402287-07	Soil	02/15/24 00:00	02/15/24 13:25
BKG04@4.0'	2402287-08	Soil	02/15/24 00:00	02/15/24 13:25
BKG05@5.0'	2402287-09	Soil	02/15/24 00:00	02/15/24 13:25
BKG05@4.0'	2402287-10	Soil	02/15/24 00:00	02/15/24 13:25
BKG06@5.0'	2402287-11	Soil	02/14/24 00:00	02/15/24 13:25
BKG07@5.0'	2402287-12	Soil	02/14/24 00:00	02/15/24 13:25
BKG08@5.0'	2402287-13	Soil	02/14/24 00:00	02/15/24 13:25
BKG09@5.0'	2402287-14	Soil	02/14/24 00:00	02/15/24 13:25
BKG10@5.0'	2402287-15	Soil	02/14/24 00:00	02/15/24 13:25

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

Lab ID	Page 1 of 1
2402287	

Client: Fremont Env	Project Manager: Paul Henchen	Company:
Address:	E-Mail: Paulh@fremontenv.com	Project Name/Location:
City/State/Zip:	Jeff@fremontenv.com Ethemb@fremontenv.com	AFE#:
Phone:	Project Name: Hanson BC 0-64N67W 1NESE (Backcountry)	PO/Billing Codes: VWRWE-AR137-ARN
Sampler Name: JG	Project Number:	Contact:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	EC, pH, SAR, Boron	Metals (915)		
1	BK601@5.0'	2/15/24		1			X			X			X	X		
2	BK601@4.0'															
3	BK602@5.0'															
4	BK602@4.0'															
5	BK603@5.0'															
6	BK603@4.0'															
7	BK604@5.0'															
8	BK604@4.0'															
9	BK605@5.0'															
10	BK605@4.0'	2/15/24														
11	BK606@5.0'	2/14/24														
12	BK607@5.0'															
13	BK608@5.0'															
14	BK609@5.0'															
15	BK610@5.0'															

Relinquished by: <i>Jr</i>	Date/Time: 2/15/24 13:25	Received by: <i>J. H. Wald</i>	Date/Time: 2/15/24 13:25	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: 8.2	Corrected Temperature	IR gun #: 2	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2402287

Client: Fremont Client Project ID: Hanson BLD-64N67W INESE (backgrounds)

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

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

Temp (°C) Thermometer #

	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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely? ⁽¹⁾	<input 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.

John Wil
Custodian Printed Name

2/15/24 13:25
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W 1NESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG01@5.0'
2402287-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHB0920	02/29/24	03/01/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	5.81	0.181		mg/kg dry	1	BHD0325	04/10/24	04/12/24	EPA 6020B	
Barium	78.2	0.362		"	"	"	"	"	"	
Cadmium	0.193	0.181		"	"	"	"	"	"	
Copper	6.53	0.362		"	"	"	"	"	"	
Lead	7.65	0.181		"	"	"	"	"	"	
Nickel	9.61	0.362		"	"	"	"	"	"	
Silver	0.0325	0.0181		"	"	"	"	"	"	
Zinc	22.6	0.362		"	"	"	"	"	"	
Selenium	ND	0.236		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

I-04

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0615	04/18/24	04/18/24	EPA 7196A	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	7.49	0.0500		mg/L dry	1	BHB0673	02/21/24	02/29/24	EPA 6020B	
Magnesium	2.24	0.0500		"	"	"	"	"	"	
Sodium	4.46	0.0500		"	"	"	"	"	"	

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Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG01@5.0'
2402287-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.367	0.00100	units	1	BHC0013	03/01/24	03/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.2		%	1	BHB0854	02/27/24	02/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.85	0.0100	mmhos/cm	1	BHB0732	02/22/24	02/25/24	EPA 120.1	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.93		pH Units	1	BHB0730	02/22/24	02/25/24	EPA 9045D	

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Wellington CO, 80549

Project: Hanson BC 0-64N67W 1NESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG01@4.0'
2402287-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0920	02/29/24	03/01/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	6.49	0.200	mg/kg dry	1	BHD0325	04/10/24	04/12/24	EPA 6020B	
Barium	97.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	6.56	0.400	"	"	"	"	"	"	
Lead	8.36	0.200	"	"	"	"	"	"	
Nickel	9.69	0.400	"	"	"	"	"	"	
Silver	0.0394	0.0200	"	"	"	"	"	"	
Zinc	23.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

I-04

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0615	04/18/24	04/18/24	EPA 7196A	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	4.84	0.0500	mg/L dry	1	BHB0673	02/21/24	02/29/24	EPA 6020B	
Magnesium	1.96	0.0500	"	"	"	"	"	"	
Sodium	7.16	0.0500	"	"	"	"	"	"	

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Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG01@4.0'
2402287-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.694	0.00100	units	1	BHC0013	03/01/24	03/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.1		%	1	BHB0854	02/27/24	02/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.66	0.0100	mmhos/cm	1	BHB0732	02/22/24	02/25/24	EPA 120.1	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.61		pH Units	1	BHB0730	02/22/24	02/25/24	EPA 9045D	

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Project: Hanson BC 0-64N67W 1NESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG02@5.0'
2402287-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHB0920	02/29/24	03/01/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	5.65	0.200		mg/kg dry	1	BHD0325	04/10/24	04/12/24	EPA 6020B	
Barium	92.2	0.400		"	"	"	"	"	"	
Cadmium	0.244	0.200		"	"	"	"	"	"	
Copper	9.30	0.400		"	"	"	"	"	"	
Lead	8.08	0.200		"	"	"	"	"	"	
Nickel	12.8	0.400		"	"	"	"	"	"	
Silver	0.0382	0.0200		"	"	"	"	"	"	
Zinc	26.2	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

I-04

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0615	04/18/24	04/18/24	EPA 7196A	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	9.80	0.0500		mg/L dry	1	BHB0673	02/21/24	02/29/24	EPA 6020B	
Magnesium	4.00	0.0500		"	"	"	"	"	"	
Sodium	7.02	0.0500		"	"	"	"	"	"	

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Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG02@5.0'
2402287-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.477	0.00100	units	1	BHC0013	03/01/24	03/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.0		%	1	BHB0854	02/27/24	02/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.68	0.0100	mmhos/cm	1	BHB0732	02/22/24	02/25/24	EPA 120.1	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.83		pH Units	1	BHB0730	02/22/24	02/25/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG02@4.0'
2402287-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0920	02/29/24	03/01/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	6.20	0.200	mg/kg dry	1	BHD0325	04/10/24	04/12/24	EPA 6020B	
Barium	98.4	0.400	"	"	"	"	"	"	
Cadmium	0.212	0.200	"	"	"	"	"	"	
Copper	7.79	0.400	"	"	"	"	"	"	
Lead	8.12	0.200	"	"	"	"	"	"	
Nickel	10.9	0.400	"	"	"	"	"	"	
Silver	0.0427	0.0200	"	"	"	"	"	"	
Zinc	25.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

I-04

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0615	04/18/24	04/18/24	EPA 7196A	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	8.34	0.0500	mg/L dry	1	BHB0673	02/21/24	02/29/24	EPA 6020B	
Magnesium	5.21	0.0500	"	"	"	"	"	"	
Sodium	9.91	0.0500	"	"	"	"	"	"	

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Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG02@4.0'
2402287-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.663	0.00100	units	1	BHC0013	03/01/24	03/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.4		%	1	BHB0854	02/27/24	02/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.94	0.0100	mmhos/cm	1	BHB0732	02/22/24	02/25/24	EPA 120.1	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.54		pH Units	1	BHB0730	02/22/24	02/25/24	EPA 9045D	

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Wellington CO, 80549

Project: Hanson BC 0-64N67W 1NESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG03@5.0'
2402287-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0920	02/29/24	03/01/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	5.11	0.200	mg/kg dry	1	BHD0325	04/10/24	04/12/24	EPA 6020B	
Barium	85.3	0.400	"	"	"	"	"	"	
Cadmium	0.230	0.200	"	"	"	"	"	"	
Copper	8.07	0.400	"	"	"	"	"	"	
Lead	7.28	0.200	"	"	"	"	"	"	
Nickel	11.3	0.400	"	"	"	"	"	"	
Silver	0.0395	0.0200	"	"	"	"	"	"	
Zinc	24.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

I-04

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0615	04/18/24	04/18/24	EPA 7196A	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	11.7	0.0500	mg/L dry	1	BHB0673	02/21/24	02/29/24	EPA 6020B	
Magnesium	2.75	0.0500	"	"	"	"	"	"	
Sodium	7.64	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG03@5.0'
2402287-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.522	0.00100	units	1	BHC0013	03/01/24	03/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.5		%	1	BHB0854	02/27/24	02/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.32	0.0100	mmhos/cm	1	BHB0732	02/22/24	02/25/24	EPA 120.1	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.38		pH Units	1	BHB0730	02/22/24	02/25/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG03@4.0'
2402287-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHB0920	02/29/24	03/01/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	24.1	0.200		mg/kg dry	1	BHD0325	04/10/24	04/12/24	EPA 6020B	
Barium	118	0.400		"	"	"	"	"	"	
Cadmium	0.296	0.200		"	"	"	"	"	"	
Copper	9.73	0.400		"	"	"	"	"	"	
Lead	8.29	0.200		"	"	"	"	"	"	
Nickel	12.8	0.400		"	"	"	"	"	"	
Silver	0.0481	0.0200		"	"	"	"	"	"	
Zinc	25.5	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

I-04

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0615	04/18/24	04/18/24	EPA 7196A	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	7.48	0.0500		mg/L dry	1	BHB0673	02/21/24	02/29/24	EPA 6020B	
Magnesium	1.94	0.0500		"	"	"	"	"	"	
Sodium	3.61	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)
Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG03@4.0'
2402287-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.304	0.00100	units	1	BHC0013	03/01/24	03/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.1		%	1	BHB0854	02/27/24	02/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.71	0.0100	mmhos/cm	1	BHB0732	02/22/24	02/25/24	EPA 120.1	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.63		pH Units	1	BHB0730	02/22/24	02/25/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG04@5.0'
2402287-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHB0920	02/29/24	03/01/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.89	0.200		mg/kg dry	1	BHD0325	04/10/24	04/12/24	EPA 6020B	
Barium	105	0.400		"	"	"	"	"	"	
Cadmium	0.245	0.200		"	"	"	"	"	"	
Copper	11.1	0.400		"	"	"	"	"	"	
Lead	6.93	0.200		"	"	"	"	"	"	
Nickel	15.2	0.400		"	"	"	"	"	"	
Silver	0.0440	0.0200		"	"	"	"	"	"	
Zinc	24.7	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

I-04

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0615	04/18/24	04/18/24	EPA 7196A	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	6.74	0.0500		mg/L dry	1	BHB0673	02/21/24	02/29/24	EPA 6020B	
Magnesium	3.95	0.0500		"	"	"	"	"	"	
Sodium	4.18	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG04@5.0'
2402287-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.316	0.00100	units	1	BHC0013	03/01/24	03/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.2		%	1	BHB0854	02/27/24	02/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.44	0.0100	mmhos/cm	1	BHB0732	02/22/24	02/25/24	EPA 120.1	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.08		pH Units	1	BHB0730	02/22/24	02/25/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W 1NESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG04@4.0'
2402287-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0920	02/29/24	03/01/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.61	0.200	mg/kg dry	1	BHD0325	04/10/24	04/12/24	EPA 6020B	
Barium	93.1	0.400	"	"	"	"	"	"	
Cadmium	0.222	0.200	"	"	"	"	"	"	
Copper	9.55	0.400	"	"	"	"	"	"	
Lead	7.56	0.200	"	"	"	"	"	"	
Nickel	13.1	0.400	"	"	"	"	"	"	
Silver	0.0489	0.0200	"	"	"	"	"	"	
Zinc	24.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

I-04

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0615	04/18/24	04/18/24	EPA 7196A	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	13.1	0.0500	mg/L dry	1	BHB0673	02/21/24	02/29/24	EPA 6020B	
Magnesium	5.17	0.0500	"	"	"	"	"	"	
Sodium	6.38	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG04@4.0'
2402287-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.378	0.00100	units	1	BHC0013	03/01/24	03/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.1		%	1	BHB0854	02/27/24	02/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.24	0.0100	mmhos/cm	1	BHB0732	02/22/24	02/25/24	EPA 120.1	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.53		pH Units	1	BHB0730	02/22/24	02/25/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W 1NESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG05@5.0'
2402287-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0920	02/29/24	03/01/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.810	0.200	mg/kg dry	1	BHD0325	04/10/24	04/12/24	EPA 6020B	
Barium	31.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.43	0.400	"	"	"	"	"	"	
Lead	2.18	0.200	"	"	"	"	"	"	
Nickel	5.54	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

I-04

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0615	04/18/24	04/18/24	EPA 7196A	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	0.620	0.0500	mg/L dry	1	BHB0673	02/21/24	02/29/24	EPA 6020B	
Magnesium	0.829	0.0500	"	"	"	"	"	"	
Sodium	2.39	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG05@5.0'
2402287-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.467	0.00100	units	1	BHC0013	03/01/24	03/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.1		%	1	BHB0854	02/27/24	02/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.09	0.0100	mmhos/cm	1	BHB0732	02/22/24	02/25/24	EPA 120.1	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.61		pH Units	1	BHB0730	02/22/24	02/25/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W 1NESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG05@4.0'
2402287-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0920	02/29/24	03/01/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.89	0.200	mg/kg dry	1	BHD0325	04/10/24	04/12/24	EPA 6020B	
Barium	24.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.48	0.400	"	"	"	"	"	"	
Lead	1.78	0.200	"	"	"	"	"	"	
Nickel	3.84	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.47	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

I-04

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0615	04/18/24	04/18/24	EPA 7196A	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	0.977	0.0500	mg/L dry	1	BHB0673	02/21/24	02/29/24	EPA 6020B	
Magnesium	1.05	0.0500	"	"	"	"	"	"	
Sodium	2.22	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG05@4.0'
2402287-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.371	0.00100	units	1	BHC0013	03/01/24	03/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.4		%	1	BHB0854	02/27/24	02/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.51	0.0100	mmhos/cm	1	BHB0732	02/22/24	02/25/24	EPA 120.1	

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

Date Sampled: **02/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.58		pH Units	1	BHB0730	02/22/24	02/25/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W 1NESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG06@5.0'
2402287-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0920	02/29/24	03/01/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.31	0.180	mg/kg dry	1	BHD0325	04/10/24	04/12/24	EPA 6020B	
Barium	37.6	0.360	"	"	"	"	"	"	
Cadmium	ND	0.180	"	"	"	"	"	"	
Copper	2.69	0.360	"	"	"	"	"	"	
Lead	2.27	0.180	"	"	"	"	"	"	
Nickel	3.79	0.360	"	"	"	"	"	"	
Silver	ND	0.0180	"	"	"	"	"	"	
Zinc	10.6	0.360	"	"	"	"	"	"	
Selenium	ND	0.234	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

I-04

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0615	04/18/24	04/18/24	EPA 7196A	

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

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	2.50	0.0500	mg/L dry	1	BHB0673	02/21/24	02/29/24	EPA 6020B	
Magnesium	1.78	0.0500	"	"	"	"	"	"	
Sodium	1.05	0.0500	"	"	"	"	"	"	

Summit Scientific

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Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG06@5.0'
2402287-11 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.124	0.00100	units	1	BHC0013	03/01/24	03/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.1		%	1	BHB0854	02/27/24	02/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.694	0.0100	mmhos/cm	1	BHB0732	02/22/24	02/25/24	EPA 120.1	

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

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.42		pH Units	1	BHB0730	02/22/24	02/25/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG07@5.0'
2402287-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHB0920	02/29/24	03/01/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.63	0.200		mg/kg dry	1	BHD0325	04/10/24	04/12/24	EPA 6020B	
Barium	162	0.400		"	"	"	"	"	"	
Cadmium	0.225	0.200		"	"	"	"	"	"	
Copper	13.2	0.400		"	"	"	"	"	"	
Lead	8.65	0.200		"	"	"	"	"	"	
Nickel	10.4	0.400		"	"	"	"	"	"	
Silver	0.0523	0.0200		"	"	"	"	"	"	
Zinc	28.3	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

I-04

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0615	04/18/24	04/18/24	EPA 7196A	

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

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	7.46	0.0500		mg/L dry	1	BHB0673	02/21/24	02/29/24	EPA 6020B	
Magnesium	2.56	0.0500		"	"	"	"	"	"	
Sodium	2.68	0.0500		"	"	"	"	"	"	

Summit Scientific

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Project: Hanson BC 0-64N67W INESE (Backgrounds)
Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG07@5.0'
2402287-12 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.216	0.00100	units	1	BHC0013	03/01/24	03/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.9		%	1	BHB0854	02/27/24	02/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.242	0.0100	mmhos/cm	1	BHB0732	02/22/24	02/25/24	EPA 120.1	

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

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.15		pH Units	1	BHB0730	02/22/24	02/25/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W 1NESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG08@5.0'
2402287-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0920	02/29/24	03/01/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.742	0.200	mg/kg dry	1	BHD0325	04/10/24	04/12/24	EPA 6020B	
Barium	23.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.07	0.400	"	"	"	"	"	"	
Lead	1.65	0.200	"	"	"	"	"	"	
Nickel	2.64	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	7.93	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

I-04

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0615	04/18/24	04/18/24	EPA 7196A	

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

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	1.34	0.0500	mg/L dry	1	BHB0673	02/21/24	02/29/24	EPA 6020B	
Magnesium	1.56	0.0500	"	"	"	"	"	"	
Sodium	1.14	0.0500	"	"	"	"	"	"	

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)
Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG08@5.0'
2402287-13 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.159	0.00100	units	1	BHC0013	03/01/24	03/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.9		%	1	BHB0854	02/27/24	02/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.19	0.0100	mmhos/cm	1	BHB0732	02/22/24	02/25/24	EPA 120.1	

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

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.12		pH Units	1	BHB0730	02/22/24	02/25/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
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Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG09@5.0'
2402287-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0920	02/29/24	03/01/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.39	0.200	mg/kg dry	1	BHD0325	04/10/24	04/12/24	EPA 6020B	
Barium	73.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	6.94	0.400	"	"	"	"	"	"	
Lead	5.23	0.200	"	"	"	"	"	"	
Nickel	6.72	0.400	"	"	"	"	"	"	
Silver	0.0287	0.0200	"	"	"	"	"	"	
Zinc	18.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

I-04

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0615	04/18/24	04/18/24	EPA 7196A	

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

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	4.89	0.0500	mg/L dry	1	BHB0673	02/21/24	02/29/24	EPA 6020B	
Magnesium	1.34	0.0500	"	"	"	"	"	"	
Sodium	3.84	0.0500	"	"	"	"	"	"	

Summit Scientific

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Project: Hanson BC 0-64N67W INESE (Backgrounds)
Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG09@5.0'
2402287-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.397	0.00100	units	1	BHC0013	03/01/24	03/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.8		%	1	BHB0854	02/27/24	02/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.10	0.0100	mmhos/cm	1	BHB0732	02/22/24	02/25/24	EPA 120.1	

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

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.90		pH Units	1	BHB0730	02/22/24	02/25/24	EPA 9045D	

Summit Scientific

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PO Box 1289
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Project: Hanson BC 0-64N67W 1NESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG10@5.0'
2402287-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHB0920	02/29/24	03/01/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.60	0.200	mg/kg dry	1	BHD0325	04/10/24	04/12/24	EPA 6020B	
Barium	25.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.41	0.400	"	"	"	"	"	"	
Lead	3.07	0.200	"	"	"	"	"	"	
Nickel	4.66	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	13.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

I-04

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0615	04/18/24	04/18/24	EPA 7196A	

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

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	2.38	0.0500	mg/L dry	1	BHB0673	02/21/24	02/29/24	EPA 6020B	
Magnesium	0.877	0.0500	"	"	"	"	"	"	
Sodium	0.505	0.0500	"	"	"	"	"	"	

Summit Scientific

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Project: Hanson BC 0-64N67W INESE (Backgrounds)
Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

BKG10@5.0'
2402287-15 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0711	0.00100	units	1	BHC0013	03/01/24	03/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.3		%	1	BHB0854	02/27/24	02/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.06	0.0100	mmhos/cm	1	BHB0732	02/22/24	02/25/24	EPA 120.1	

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

Date Sampled: **02/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.84		pH Units	1	BHB0730	02/22/24	02/25/24	EPA 9045D	

Summit Scientific

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Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
 Project Manager: Paul Henchan

Reported:
 04/22/24 09:27

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 BHB0920 - EPA 3050B

Blank (BHB0920-BLK1)

Prepared: 02/29/24 Analyzed: 03/01/24

Boron ND 2.00 mg/L

LCS (BHB0920-BS1)

Prepared: 02/29/24 Analyzed: 03/01/24

Boron 5.21 2.00 mg/L 5.00 104 80-120

Duplicate (BHB0920-DUP1)

Source: 2402062-04

Prepared: 02/29/24 Analyzed: 03/01/24

Boron 0.635 2.00 mg/L 0.634 0.124 20

Matrix Spike (BHB0920-MS1)

Source: 2402062-04

Prepared: 02/29/24 Analyzed: 03/01/24

Boron 5.77 2.00 mg/L 5.00 0.634 103 75-125

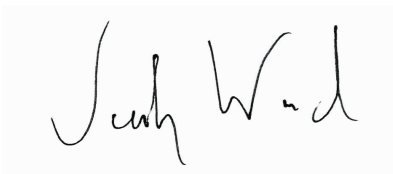
Matrix Spike Dup (BHB0920-MSD1)

Source: 2402062-04

Prepared: 02/29/24 Analyzed: 03/01/24

Boron 5.75 2.00 mg/L 5.00 0.634 102 75-125 0.340 25

Summit Scientific



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Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

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 BHD0325 - EPA 3050B

Blank (BHD0325-BLK1)

Prepared: 04/10/24 Analyzed: 04/12/24

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 (BHD0325-BS1)

Prepared: 04/10/24 Analyzed: 04/12/24

Arsenic	37.2	0.200	mg/kg wet	40.0	93.1	80-120
Barium	37.6	0.400	"	40.0	94.0	80-120
Cadmium	1.89	0.200	"	2.00	94.6	80-120
Copper	37.7	0.400	"	40.0	94.2	80-120
Lead	18.6	0.200	"	20.0	92.9	80-120
Nickel	37.1	0.400	"	40.0	92.8	80-120
Silver	1.90	0.0200	"	2.00	94.9	80-120
Zinc	38.5	0.400	"	40.0	96.2	80-120
Selenium	4.03	0.260	"	4.00	101	80-120

Duplicate (BHD0325-DUP1)

Source: 2402238-21

Prepared: 04/10/24 Analyzed: 04/12/24

Arsenic	7.13	0.200	mg/kg dry	7.27	1.97	20
Barium	16.4	0.400	"	16.2	0.947	20
Cadmium	0.219	0.200	"	0.197	10.6	20
Copper	4.86	0.400	"	4.80	1.39	20
Lead	4.46	0.200	"	4.26	4.51	20
Nickel	3.52	0.400	"	3.60	2.01	20
Silver	0.00944	0.0200	"	0.00616	42.1	20
Zinc	9.29	0.400	"	8.41	9.97	20
Selenium	0.503	0.260	"	0.430	15.6	20

QR-01

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
 Project Manager: Paul Henchan

Reported:
 04/22/24 09:27

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 BHD0325 - EPA 3050B

Matrix Spike (BHD0325-MS1)

Source: 2402238-21

Prepared: 04/10/24 Analyzed: 04/12/24

Arsenic	42.3	0.200	mg/kg dry	39.3	7.27	89.0	75-125			
Barium	51.0	0.400	"	39.3	16.2	88.4	75-125			
Cadmium	2.05	0.200	"	1.97	0.197	94.3	75-125			
Copper	41.2	0.400	"	39.3	4.80	92.4	75-125			
Lead	21.1	0.200	"	19.7	4.26	85.6	75-125			
Nickel	39.5	0.400	"	39.3	3.60	91.4	75-125			
Silver	1.95	0.0200	"	1.97	0.00616	98.7	75-125			
Zinc	39.9	0.400	"	39.3	8.41	80.0	75-125			
Selenium	4.49	0.260	"	3.93	0.430	103	75-125			

Matrix Spike Dup (BHD0325-MSD1)

Source: 2402238-21

Prepared: 04/10/24 Analyzed: 04/12/24

Arsenic	44.1	0.200	mg/kg dry	39.3	7.27	93.6	75-125	4.21	25
Barium	57.1	0.400	"	39.3	16.2	104	75-125	11.3	25
Cadmium	2.32	0.200	"	1.97	0.197	108	75-125	12.2	25
Copper	42.9	0.400	"	39.3	4.80	96.8	75-125	4.14	25
Lead	24.0	0.200	"	19.7	4.26	101	75-125	13.1	25
Nickel	41.1	0.400	"	39.3	3.60	95.4	75-125	3.94	25
Silver	2.15	0.0200	"	1.97	0.00616	109	75-125	10.0	25
Zinc	43.8	0.400	"	39.3	8.41	90.0	75-125	9.35	25
Selenium	5.15	0.260	"	3.93	0.430	120	75-125	13.6	25

Summit Scientific

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Fremont Environmental
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 Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
 Project Manager: Paul Henchan

Reported:
 04/22/24 09:27

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHD0615 - 3060A Mod

Blank (BHD0615-BLK1)

Prepared & Analyzed: 04/18/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHD0615-BS1)

Prepared & Analyzed: 04/18/24

Chromium, Hexavalent 25.6 0.30 mg/kg wet 25.0 102 80-120

Duplicate (BHD0615-DUP1)

Source: 2402287-01

Prepared & Analyzed: 04/18/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHD0615-MS1)

Source: 2402287-01

Prepared & Analyzed: 04/18/24

Chromium, Hexavalent 28.5 0.30 mg/kg dry 28.0 ND 102 75-125

Matrix Spike Dup (BHD0615-MSD1)

Source: 2402287-01

Prepared & Analyzed: 04/18/24

Chromium, Hexavalent 28.5 0.30 mg/kg dry 28.0 ND 102 75-125 0.00 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Hanson BC 0-64N67W 1NESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
 Project Manager: Paul Henchan

Reported:
 04/22/24 09:27

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 BHB0673 - General Preparation

Blank (BHB0673-BLK1)

Prepared: 02/21/24 Analyzed: 02/29/24

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

LCS (BHB0673-BS1)

Prepared: 02/21/24 Analyzed: 02/29/24

Calcium	5.85	0.0500	mg/L wet	5.00	117	70-130				
Magnesium	5.53	0.0500	"	5.00	111	70-130				
Sodium	5.54	0.0500	"	5.00	111	70-130				

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Hanson BC 0-64N67W 1NESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
 Project Manager: Paul Henchan

Reported:
 04/22/24 09:27

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

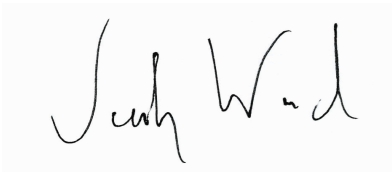
Summit Scientific

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

Batch BHB0854 - General Preparation

Duplicate (BHB0854-DUP1)	Source: 2402287-01	Prepared: 02/27/24	Analyzed: 02/28/24
% Solids	89.3	%	89.2
			0.204
			20

Summit Scientific



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Fremont Environmental
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 Wellington CO, 80549

Project: Hanson BC 0-64N67W INESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
 Project Manager: Paul Henchan

Reported:
 04/22/24 09:27

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 BHB0732 - General Preparation

Blank (BHB0732-BLK1)

Prepared: 02/22/24 Analyzed: 02/25/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHB0732-BS1)

Prepared: 02/22/24 Analyzed: 02/25/24

Specific Conductance (EC) 0.146 0.0100 mmhos/cm 0.150 97.3 95-105

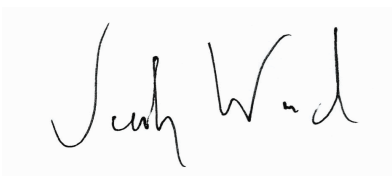
Duplicate (BHB0732-DUP1)

Source: 2402062-04

Prepared: 02/22/24 Analyzed: 02/25/24

Specific Conductance (EC) 0.469 0.0100 mmhos/cm 0.466 0.727 20

Summit Scientific



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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Hanson BC 0-64N67W 1NESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
 Project Manager: Paul Henchan

Reported:
 04/22/24 09:27

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 BHB0730 - General Preparation

LCS (BHB0730-BS1)

Prepared: 02/22/24 Analyzed: 02/25/24

pH	9.08	pH Units	9.18	98.9	95-105
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Duplicate (BHB0730-DUP1)

Source: 2402062-04

Prepared: 02/22/24 Analyzed: 02/25/24

pH	8.28	pH Units	8.35	0.842	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Hanson BC 0-64N67W 1NESE (Backgrounds)

Project Number: UWRWE-A2137-ABN
Project Manager: Paul Henchan

Reported:
04/22/24 09:27

Notes and Definitions

- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- 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